OREGON ENVIRONMENTAL QUALITY COMMISSION MEETING MATERIALS 12/02/1994



State of Oregon Department of Environmental Quality

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REVISED AGENDA

ENVIRONMENTAL QUALITY COMMISSION MEETING

December 2, 1994 DEQ Conference Room 3a 811 S. W. 6th Avenue Portland, Oregon

Friday, December 2, 1994: Regular Meeting beginning at 8:30 a.m.

Notes:

Because of the uncertain length of time needed for each agenda item, the Commission may deal with any item at any time in the meeting. If a specific time is indicated for an agenda item, an effort will be made to consider that item as close to that time as possible. However, scheduled times may be modified if agreeable with participants. Anyone wishing to be heard or listen to the discussion on any item should arrive at the beginning of the meeting to avoid missing the item of interest.

Public Forum: The Commission will break the meeting at approximately 11:30 a.m. for the Public Forum if there are people signed up to speak. The Public Forum is an opportunity for citizens to speak to the Commission on environmental issues and concerns not a part of the agenda for this meeting. Individual presentations will be limited to 5 minutes. The Commission may discontinue this forum after a reasonable time if an exceptionally large number of speakers wish to appear.

- A. Approval of Minutes
- B. Approval of Tax Credits
- C. †Rule Adoption: Acid Rain/Stratospheric Ozone Protection/Radionuclide NESHAP
- D. †Rule Adoption: Criteria for Financial Assurance for Closure and Post-Closure Care
- E. +Rule Adoption: Hardboard Particulate Emissions Rule Revision

F. †Rule Adoption: Proposed Temporary Rule Adopting the Federal Universal Treatment Standards and Toxicity Characteristic Waste Treatment Standards

- G. ‡Temporary Rule Adoption: Temporary Suspension of Operator Certification Rule Fee Increase
- H. Action Item: Standards and Criteria for Hiring New Director
- I. *‡Information Item: Legislative Report on Rigid Plastic Containers*
- J. ‡Information Item: Update on Implementation of HB 2214 (Development of a Plan to maintain Attainment with Federal Air Quality Standards in the Portland Area)
- K. Commission Reports (Oral)
- L. Director's Report (Oral)

[†]Hearings have already been held on the Rule Adoption items; therefore, any testimony received will be limited to comments on changes proposed by the Department in response to hearing testimony. The Commission also may choose to question interested parties present at the meeting.

‡The Commission does not usually take public comment on informational items.

The Commission has set aside January 19-20, 1995, for their next meeting. The location has not been established.

Copies of staff reports for individual agenda items are available by contacting the Director's Office of the Department of Environmental Quality, 811 S. W. Sixth Avenue, Portland, Oregon 97204, telephone 229-5395, or toll-free 1-800-452-4011. Please specify the agenda item letter when requesting.

If special physical, language or other accommodations are needed for this meeting, please advise the Director's Office, (503)229-5395 (voice)/(503)229-6993 (TDD) as soon as possible but at least 48 hours in advance of the meeting.

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November 23, 1994

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Approved ______

Minutes are not final until approved by the EQC

ENVIRONMENTAL QUALITY COMMISSION

Minutes of the Special Meeting May 16, 1994

The Environmental Quality Commission met for a special meeting on Monday, May 16, 9 a.m., 1994, in Conference Room 3A, Oregon Department of Environmental Quality (DEQ), 811 S. W. Sixth Avenue in Portland, Oregon. The following Commission members were present:

William Wessinger, Chair Emery Castle, Vice Chair Henry Lorenzen, Commissioner Linda McMahan, Commissioner Carol Whipple, Commissioner

Also present were Michael Huston, Assistant Attorney General, Oregon Department of Justice, Fred Hansen, Director, DEQ, and other DEQ staff.

The purpose of this special meeting was to consider the water quality standards in regard to total dissolved gas (TDG) concentrations in the Columbia River. Director Hansen provided a brief summary of this issue. He said the agenda represented an effort to use panels of experts for providing explicit explanations. Director Hansen said there were three questions that needed to be considered: 1) should the temporary rule that the Commission adopted a week ago which will expire at midnight be extended; if so, does the rule need modification; 2) is the Commission in favor of moving smolts downriver by spilling over the dams or by barging or by some other method; and 3) is the monitoring program sufficient to indicate whether and when problems arise and to allow lowered spillage so that adverse effects can be minimized?

Michael Huston, Assistant Attorney General, provided a copy of the state statute that applied to this situation (ORS 468b.048), Standards of quality and purity, factors to be considered; meeting standards. He noted that an opinion was received from the State Supreme Court in the Salt Caves case in which the Court concluded that the Commission had a great deal of latitude in terms of adopting water quality standards.

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Commissioner Lorenzen asked whether the Commission was to consider the benefits of transport and focus solely upon the water quality issue. Mr. Huston replied that the Commission is not primarily responsible for determining beneficial uses or balancing tradeoffs. Commissioner Castle asked if more than one beneficial use were affected, should all beneficial uses be considered. Neil Mullane, Water Quality Division, indicated yes. He said that if one parameter is changed, that change can influence other beneficial uses.

The Commission heard a number of panel discussions. Those discussions are provided below in order of presentation.

REQUEST FOR SPILL

Don Raft, National Marine Fisheries Service (NMFS), said the NMFS was requesting implementation of the spill proposal developed by the technical staffs of the U. S. Fish and Wildlife Service (USFW) and NMFS. This request was also in coordination with the state fisheries agencies and tribes in response to declining numbers of Snake River salmon listed under the Endangered Species Act.

Mr. Raft said the initial request for implementation of this spill proposal was outlined in a May 9 letter from J. Gary Smith of the NMFS to Randy Hardy of the Bonneville Power Administration (BPA) and Major General Ernest Harrell of the U. S. Army Corps of Engineers (Corps) following a May 7 conference call. Mr. Raft said the initial 12-hour spill request is intended to result in 80 percent fish guidance efficiency; that is, 80 percent of the daily average passage of juvenile spring-summer chinook salmon migrates will pass hydroelectric dams by non-turbine routes. Specifically, he asked that the following spill levels be implemented.

- At Lower Granite Dam, 78 percent of instantaneous flow, from 1800 to 0600 hours;
- At Little Goose Dam, 48 percent of instantaneous flow, from 1800 to 0600 hours;
- At Lower Monumental Dam, 54 percent of instantaneous flow, from 1800 to 0600 hours;
- At Ice Harbor Dam, 25 kcfs, 24 hours per day;
- At McNary Dam, 48 percent of instantaneous flow, from 1800 to 0600 hours;
- At John Day Dam, 33 percent of instantaneous flow, from 1900 through 0700 hours;
- At The Dalles Dam, 40 percent of instantaneous flow, 24 hours per day;

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> • At Bonneville Dam, through May 31, 68 percent of instantaneous flow, from one half hour before sunset to one hour before sunrise and 75 kcfs one hour before sunrise to one half hour before sunset; from June 1 through June 20, 68 percent of instantaneous flow from one hour before sunset to one hour before sunrise and 75 kcfs one hour before sunsite to one hour after sunset.

Mr. Raft outlined the spill modification regime and monitoring program. He said that after two weeks of operation under the revised spill regime, the NMFS will convene monitoring experts to review the monitoring design and protocol and to recommend any changes to the program.

Commissioner Whipple asked for a brief review about the role given to additional spills in the original plan. The NMFS responded that in the draft recommendations from the recovery team, spill was mentioned as an additional strategy to be explored but not in regard to using spill to increase downstream passage survival. It was indicated that a new draft would soon be available.

Commissioner Lorenzen asked if this particular spill program was designed to assist the fish returning up river. The NMFS responded no, the program and different spill levels at the individual dams would have to be carefully monitored in terms of adult passage conditions; excessive spill could also affect upstream passage conditions for the returning adults. Commissioner Whipple asked about the smolt run for this year and how it compared historically. The NMFS said that historically, it is relatively higher at least compared to recent years.

Russell George, reservoir control center for the Pacific Division for the Corps, gave a brief summary of the events leading up to this meeting. He provided examples of several different data sheets.

Commissioner Whipple asked how tailwater stations were determined. Mr. George said that most were near the bank and in the area on the spill side of the project versus the powerhouse side because that is the area where the dissolved gases are. Chair Wessinger asked what would be found in a seven-mile distance of the river in regard to dissolved gas. Mr. George responded that there is gradual deterioration of the gas levels downstream depending upon the type of river conditions.

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INTERAGENCY PANEL

Ron Boyce, Oregon Department of Fish and Wildlife (ODFW), provided comments on the proposed spill program. He said the ODFW strongly supports the spill program requested by the NMFS which is designed to maximize survival of juvenile chinook and steelhead while minimizing impact to aquatic species. He said the purpose of the program is to increase passage of juveniles over spillways which has been shown by numerous studies to provide the safest route to passing juvenile fish through mainstem hydroelectric projects.

Mr. Boyce added that the spill program is also designed to improve survival by reducing the number of fish being transported. He said the ODFW believes a spill program will provide immediate and significant improvements in survival of juvenile chinook and steelhead.

He said the ODFW supports the biological monitoring programs for TDG symptoms submitted to the NMFS by the Fish Passage Center (FPC). The ODFW recommended the Commission adopt a 180-day variance in the state's dissolved gas criteria to allow the spill program to proceed throughout the duration of the spring and summer migrations.

Commissioner Lorenzen asked if the ODFW believed there was data and studies indicating that transportation leads to a lower fish supply than spill. Mr. Boyce replied that it is inconclusive that transportation provides benefits, however, there are indications that it may reduce survival rates of fish returning to spawning grounds. Commissioner Lorenzen further asked if it is conclusive that spill increases survival rates. Mr. Boyce answered yes, that numerous studies had been conducted throughout the Columbia and Snake rivers systems. He indicated that the ODFW has data, studies have been conducted on the Columbia River by the NMFS and other agencies and that studies have been made on the mid-Columbia by the mid-Columbia public utility districts.

Dr. Filardo, the FPC, said that the data on fish abundance are based on the collection counts taken at the dams. She said the numbers are dependent on the hatchery releases in any one year. In general, she said, about 50 percent of the fish are collected at the project. Dr. Filardo described the process, that at each system a screen is used to divert fish into a collection system. She provided a historical perspective of flow spill and dissolved gas in the Columbia River system and talked about the current smolt monitoring program that is being implemented by the FPC.

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> Dr. Filardo said that the spill being asked for is not something that has not occurred in this system historically and that dissolved gas levels seen this year are not outside of the boundaries seen in the past years. She indicated that under the smolt monitoring program since the beginning of the season, three times per week, fish are sampled for gas bubble symptoms, that information is recorded and the information is sent to the FPC. Dr. Filardo explained migration and numbers of fish involved. She explained that the FPC is an arm of the Columbia Basin Fish and Wildlife Authority which represents the state and federal fishery agencies and Indian tribes in fish passage and migrational matters. She said that June 20 is the date used to signify the end of the spring fish migration.

Earl Dawley, the NMFS, said that because of the extra spill being asked for, the monitoring program has been increased. He said that the monitoring program received by the Commission had just been developed. The smolt monitoring conducted at Little Goose, Lower Monumental, McNary, John Day and Bonneville dams has been increased to become a daily assessment and has also been increased to examine internal and microscopic assessment if bubbles are apparent on the fish.

Mr. Dawley said there is a research program being conducted to specifically evaluate the effects of GBD on fish in the reaches downstream of Priest Rapids Dam, downstream of Ice Harbor Dam and downstream of Bonneville Dam and within those reaches at time periods when the gas saturations are above 120 percent of total dissolved gas. A NMFS lead decision making process which involves representatives from the NMFS, USFW, BPA, Corps and Bureau of Reclamation will be having biweekly meetings to decide implementation of further spill. The operations group will be looking at the available real-time information that is coming from the monitoring programs.

Jim Athearn of the Corps said the Corps is implementing emergency spill operations at the request of the NMFS and USFW with strong support from the governors of Washington and Oregon and the state fisheries agency and tribal fish managers. After notification that the state water quality standards were revised for TDG for a sevenday period, he said the Corps remains concerned about the potential adverse effects on the aquatic system particularly for Snake River salmon listed for protection under the Endangered Species Act and their critical habitat.

He said the Corps has received preliminary reports that symptoms of GBD have began appearing in smolts sampled at Lower Monumental Dam and Little Goose. Mr. Athearn commented that decisions made in regard to water quality standards should be done only after existing scientific data has been thoroughly analyzed and Environmental Quality Commission Minutes Special Meeting Page 6 May 16, 1994

> should be conservative when dealing with listed stocks and critical habitat rather than being experimental. He said that the scientists involved in dissolved gas research for the Columbia and Snake rivers since the 1960s and 1970s should be consulted on their assessment for the potential for significant increases in spill to improve survival under the unique circumstances of 1994.

> Mr. Athearn went on to say that 1994 is a low-flow year with high spill. He said the Corps was being asked to manage flows that will affect the amount of water available next year if similar weather patterns persist. If current projections for yet lower adult returns next year occur, the Corps can expect even more requests for drastic action.

Chair Wessinger asked about the difference in turbine operations and fish survival. Mr. Athearn replied that there is a 95 percent survival of the fish passing a particular project through either a collection system for transportation or through the spillway or through ice and trash sluiceway.

Director Hansen asked if the Corps was asking with the other federal agencies and ODFW the Commission to modify the standard allowing for additional spill or was he indicating that he was either taking no position or opposing such an action. Mr. Athearn replied that the Corps was not taking a position on the TDG spill percentage.

Dr. Wes Ebel told the Commission a problem he has with this request is that the NMFS is trying to achieve 80 percent fish passage efficiency and not exceeding 120 percent saturation. He said he did not see how they could do that at the proposed spill levels. Dr. Ebel said that another factor that has not been discussed was the lethal effects from exposure to total gas supersaturation. Additionally, he said he was concerned about the adult monitoring program.

Dr. Ebel said that there have been numerous studies, peer review scientific reports on the results of collection and transportation from various locations from Ice Harbor to Lower Granite dams from 1968 to the present. He said there has been over 20 years of studies and over 20 different tests conducted; there has never been a single controlled release that came back at a lower rate than the transported release. Dr. Ebel added that all of the data on steelhead has shown a significant and substantial benefit from transport during all these tests. Environmental Quality Commission Minutes Special Meeting Page 7 May 16, 1994

> Chair Wessinger asked Dr. Ebel for his recommendation. Dr. Ebel said he did not see the need for the spill program. He said the NMFS should continue doing what they are doing and work to improve the collection and transportation system and spill in areas where they are not collecting fish in tributary streams.

Dr. Gerald Bouck told the Commission that he was retired and did not represent anyone. He said that over the past 35 years he has investigated GBD and gas supersaturation. Dr. Bouck said he strongly believes that Oregon should not grant a waiver or otherwise allow relaxation of its water quality standards. He said the Commission should consider the examples of Norway or British Columbia and look to them for legal precedence.

Commissioner McMahan commented that relaxing the standard is not the same as allowing a variance in temperature because this case involves the Endangered Species Act and is a legal precedence rather than something like heat which would be economic.

Director Hansen asked how the Commission and Department should address the issue of allowing supersaturated conditions because of involuntary spills. Dr. Ebel replied that the Corps and BPA have not been allowed to operate the river the way they want to control the nitrogen. Dr. Ebel indicated that there are very few times that the existing standard would be exceeded. Dr. Bouck added that if the dams were operated as designed, spill would not be necessary; if spill is needed to move the fish through and a demonstrated need exists, there should be some way to accomplish that without creating a gas supersaturation problem.

Robert Heinith, Columbia River Inter Tribal Fish Commission (CRITFC), said the tribes are not just another interest but are sovereign governments and have management jurisdiction over the salmon and other resources in the basin. He said the tribes first brought this issue to the Department's attention in September 1993 when the tribes were facing problems and some contradictions existed within the dissolved gas standard from prior operations over the river. Mr. Heinith said the crisis over the salmon is basin wide and has meant for the tribes a severe impact. The tribes have been forced to fish the Willamette River for their ceremonial subsistence fish.

Mr. Heinith said the tribes' philosophy is to allow fish to migrate in the river and not to be handled; he said spill achieves this philosophy and scientific goal. He said that the three agencies and tribes have chosen a conservative approach, implementing the spill program based on real-time and historic migration patterns with spills being Environmental Quality Commission Minutes Special Meeting Page 8 May 16, 1994

confined to night-time hours. This plan substantially limits economical impacts to the spill because power demand is much less at night and that river flows are lower at night. He said member tribes support and concur with the ODFW request of 180-day variance with the state dissolved gas standard to allow for the best possible fresh water juvenile survival and protection of beneficial use of this resource which is in critical status.

Thane Tienson told the Commission that he grew up in the commercial fishing industry and that he represented the commercial fishing industry. He said that people opposed to spilling have an interest in not seeing a potential increase in power rates and are afraid this experiment will work which will lead to yet higher rates and, therefore, higher costs and less profits. He said the agencies and tribes have requested for years that spill be implemented, and they have been refused because the people who dominate and ultimately decide how the river is run do not want to change the status quo. Mr. Tienson said the only reason this issue was being discussed today was because a federal judge said the status quo in altering this system cannot occur any more. He said that if the transporting program was subjected to the same scrutiny and monitoring being required in the spill program, transportation would not survive that scrutiny. Mr. Tienson said the best returns for adult fish have coincided generally with the highest flows and highest spills over the last several decades. He concluded by saying that fish do better migrating in-river since they have done it successfully for thousands of years.

Bill Bakke, Oregon Trout, highlighted findings from the study conducted by Earl Dawley and Wes Ebel entitled, "Studies on Effects of Supersaturation of Dissolved Gases on Fish, Final Report." He also told the Commission that while Oregon Trout supports the use of spill as a means to improve juvenile salmon and steelhead survival at hydro dams on the Columbia and Snake rivers, excessive levels of nitrogen saturation could impair survival. He said that adult salmon and steelhead do not recover from GBD and that a standard for nitrogen supersaturation must be responsive to the survival of juvenile and adult salmonids. Environmental Quality Commission Minutes Special Meeting Page 9 May 16, 1994

Mr. Bakke stated that Oregon Trout recommended that the standard of 110 percent saturation for nitrogen be reinstated since that is the threshold where increased mortality for salmonids begins. He said that a threshold should be set at the point where there is some safety margin rather than at a point where there is measurable mortality. Every effort should be made to keep nitrogen below 120 percent of saturation; by using 110 percent as the threshold, actions should be taken to mediate increases above that point. Mr. Bakke concluded by saying that an intensive monitoring program must be in place to make sure that excessive nitrogen and GBD are controlled.

Commissioner Castle complimented Mr. Bakke on his testimony for being precise with respect to his organization's position.

Dan Roth, Northwest Environmental Defense Center (NEDC), said the Center supports the spill proposal and urged the Commission to grant the variance for 180 days. He said that under the Clean Water Act there is a move to biologically-based standards and that this could be an area to have a biologically-based nitrogen standard. Mr. Roth suggested that the Commission has to also decide about weighing public interest values. He said the Commission should weigh three points. First, that the Corps and BPA have been refusing requests for about 20 years from the agencies and tribes to spill. Second, the Corps has historically refused to spend money to protect fish and have refused to screen the dams. Third, he said, it is time to implement adaptive management. Mr. Roth indicated that the Northwest Power Planning Council has created adaptive management which essentially says action must be taken in the face of scientific uncertainty.

MONITORING PLAN

Mr. Dawley briefly provided an update of the monitoring program proposed by the NMFS. He said that the program was not yet complete but would be implemented to the full extent as quickly as the NMFS can solve some permit modification issues and how to conduct some of the monitoring. He said that for the most part the monitoring plan is in place, and the data so far received indicates little sign of GBD within the salmon population of those migrating downstream; no data has been received on those migrating upstream.

Commissioner Whipple asked about observations and asked what constituted a observation. Mr. Dawley said that they looked for external emphysema, gas bubbles under the skin and fins; he said that other signs include gas bubbles within the body

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cavity and circulatory system. Mr. Dawley said that, in general, the impacts of a high gas saturation level in the river are less than what would be seen in laboratory data because the depth distribution of fish is greater than that mandated in laboratory tests.

Commissioner McMahan asked if the data received gives the NMFS a comfort level that the fish are swimming deeper in the river. Mr. Dawley said that there have been several studies of depth distribution that suggest the average fish is not right at the surface but several feet down below the surface which provides them some compensation from the surface major level of gas saturation.

Director Hansen said that is important to note that decisions are made depending on how fast the monitoring data gives feedback. He said that physical assessment may be able to indicate symptoms but at a very gross level. Director Hansen asked how quickly data will be available as autopsies are performed on the fish so that spill regimes can be adjusted. Mr. Dawley indicated that the monitoring plan was just being completed and that the NMFS expected to have the data available by the following morning from the day-before activity.

Chair Wessinger asked Director Hansen how the Department would monitor the NMFS program. Director Hansen indicated the Department would expect to be a part of the program or at least receive immediate feed back. He said that Department staff will need to determine how to collect the data and have it available in a timely manner.

PUBLIC TESTIMONY

Al Wright, Pacific Northwest Utilities Conference Committee (PNUCC), talked about his experience in working on the Columbia River and nitrogen supersaturation during the 1960s and 1970s. Mr. Wright spoke about the spill priority, which was a nitrogen abatement program where spills were shifted around in the river to maximize the nitrogen abatement potential that existed. He indicated that in the 1980s a memorandum of agreement (MOA) regarding spill was created. The MOA was a negotiated settlement between balancing the spill and unscreened projects and power generation to optimizing fish protection but always making sure the spill was under the spill priority program and attempting to stay within the 110 percent standard. He urged the Commission not to allow the current standard to be violated. Environmental Quality Commission Minutes Special Meeting Page 11 May 16, 1994

> Dave Sabala, Douglas Electric Cooperative, said he was testifying on behalf of himself and the Pacific Northwest Generating Cooperative. Mr. Sabala said that backing up their shared desire to see threatened and endangered salmon run saved was \$350 million of ratepayer money. That money is funded through the BPA to support salmon enhancement efforts on the Columbia/Snake river systems for 1994. He said that with that level of commitment, BPA's customers have a right to expect efforts that have quantifying benefits to Northwest salmon runs. He said that the agencies should fund those enhancement actions that provide the greatest benefits achievable for the limited dollars available. Mr. Sabala said that the biological benefits of the NMFS spill program are uncertain at best. He said that while the NMFS and state fisheries agencies may view this spill program as a grand experiment, the downside is very real for down migrating salmon and for those paying the price to save them. Mr. Sabala talked about the costs involved with the spill program and costs that will be passed on to power customers. He said it appears to him that the NMFS proposal is a costly way of killing fish and kills the effectiveness of the \$350 million which is to be used to help those fish that will not be around to receive any benefits. He asked the Commission not to approve a waiver to the standard.

John Colt, Seattle, Washington, discussed monitoring for GBD. He said fish impaired or dying from gas supersaturation will be eaten by squaw fish or seagulls. He said that one of the problems with intermediate spill was that gas supersaturation is almost a mass phenomena. If water is spilled for a number of hours at a series of dams, very high gas levels will be created. He said that turning off the spill will not affect the dissolved gas already in the water.

Rob Lothrop, CRITFC, said he has been working on mainstem passage issues for approximately 13 years with the CRITFC. He said the CRITFC supports a temporary modification. He asked that the temporary rule be extended until September 30 which is within the 180 days allowed by law and would allow for a summer spill program to be implemented in 1994. He encouraged the Commission to defer to the ODFW who has been an active participant in the mainstem biological issues. Mr. Lothrop talked about the conflicting testimony in regard to fish distribution and gas concentrations in the water. He spoke briefly on the costs of the spill program. Mr. Lothrop concluded by saying that the proposed monitoring program is a state-of-the-art monitoring program and urged the Department to communicate with the FPC.

Jonathan Poisner, Sierra Club, Columbia Group, said the Sierra Club strongly supports the emergency action by the NMFS to use spill at the dams to help juvenile salmon on their migration past the dams to the ocean. He said that efforts to save wild salmon must begin by helping a greater number of migrating juvenile smolts to

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> reach the ocean and that spill is a necessary first step in this process. He said two points need to be kept in mind while evaluating the dangers of spill: 1) these dangers can be controlled; 2) whatever danger spill represents, it must be compared to the known hazard of not using spill. Mr. Poisner said that the Club realizes that spill will cost money but they believe that the costs pale in comparison to the economic and social benefits that will come over the long term from restoring wild salmon runs.

> Diane Valantine, Oregon Natural Resources Council, said the Council supported the spill program. She said that the request is a major incremental improvement and that more major drawdowns are needed to achieve restoration.

COMMISSION DISCUSSION AND ACTION

Neil Mullane, Greg McMurray and Mike Downs from the Department's Water Quality Division spoke briefly about the staff recommendation. Mr. Mullane said that staff is not comfortable with any permanent change to the 110 percent level without a great deal more information and study.

Commissioner Whipple asked about the staff's reassurance in regard to the 120 percent level. Mr. Mullane and Director Hansen responded that a distinction needs to be made in regard to a temporary versus permanent rule. Chair Wessinger asked about the NMFS 5 percent mortality trigger to reduce the spill. Mr. Mullane said staff believed that percentage was high because waiting until an actual 5 percent impact on the fish being collected might be very high.

Commissioner Castle suggested the Commission go on record in support of the 110 percent standard but in the event that agencies responsible for fisheries management wish to exceed the standard then in no case would nitrogen exceed the 120 percent of saturation, effective until June 20.

Director Hansen read the modified draft rule as revised by Commissioner Castle. After discussion and further revision, Commissioner Castle moved approval of the proposed temporary rule modification; Commissioner McMahan seconded the motion. The proposed rule read as follows: Environmental Quality Commission Minutes Special Meeting Page 13 May 16, 1994

> 340-41-155 Effective on filing and until June 20, 1994, [for 7 consecutive days thereafter] ending at midnight on that [the 7th] day. This rule supersedes paragraphs 340-41-205(2)(n), 340-41-445(2)(n), 340-41-485(2)(n), 340-41-525(2)(n), 340-41-565(2)(n), 340-41-605(2)(n) and 340-41-645(2)(n) as these paragraphs apply to the Columbia River. In the Columbia River, the Total Dissolved Gas (TDG) concentration relative to atmospheric pressure at the point of sample collection may exceed the current standard of 110 percent only if the Department concurs with the National Marine Fisheries Service that such exceedances are necessary for the enhanced management of the salmon resource. In no event, however, may 120 percent be exceeded. [shall not exceed 130 percent saturation as determined by the Department.] <u>The appropriate Federal agencies shall at all times</u> operate the river system in a manner to minimize TDG whenever the TDG levels exceed 110 percent. The purpose of this temporary rule is to provide for emergency assistance to outmigrating salmon smolts in the mainstem of the Columbia River via increased spill over the mainstem dams. The responsible agency or agencies shall develop a monitoring program acceptable to the Department. The responsible agency or agencies shall conduct monitoring for TDG concentrations and for the incidence of gas bubble disease (GBD) sufficient to determine whether the resultant TDG concentrations cause a significant increase in GBD as determined by the Department. [-related-mortality in salmon populations.] If such [a significant] an increase [in mortality] is documented, as determined by the Director, the Director shall make such alteration in the maximum allowable TDG level, until a satisfactory level is achieved.

The motion was approved three to two with Chair Wessinger, Commissioners Castle and McMahan voting yes, Commissioners Whipple and Lorenzen voting no.

Commissioner McMahan moved approval of the Statement of Need and Justification of Temporary Rule. Commissioner Castle made several modifications to the Statement of Findings. Commissioner McMahan accepted the modifications made by Commissioner Castle, and Commissioner Castle seconded the motion. The Statement of Findings read as follows: Environmental Quality Commission Minutes Special Meeting Page 14 May 16, 1994

Statement of Findings of Serious Prejudice and Attorney General Approval of Temporary Rule Justification

Agency:

Environmental Quality Commission

Temporary Rule:

OAR 340-41-155 Relating to Total Dissolved Gas in the Columbia River

1. The Environmental Quality Commission finds that its failure to promptly take this rulemaking action will result in serious prejudice to the public interest and to all individuals and groups that have a commercial, recreational or social interest in the enhancement of anadromous fish in the Columbia River.

2. This finding of serious prejudice is based upon the agency's conclusion that the following specific consequences would flow from failure to immediately take this rulemaking action:

Very recent data has revealed that the population of adult salmon in the Columbia River basin are dangerously low.

The responsible state and federal fish management agencies, especially the National Marine Fisheries Service, have determined that migration efforts should be diversified by spilling additional water from certain mainstream dams on the Columbia River. In addition, a federal district court recently ruled that the prior migration plan was inadequate and did not comply with federal law.

Additional spills would likely violate the state's instream water quality standard for total dissolved gases in the Columbia River. The rule would temporarily raise the total dissolved gases standard, thereby permitting the spills, subject to several conditions. The conditions include a requirement for careful monitoring of possible impacts of the spills and preserve the authority of the Department of Environmental Quality to return to a lower total dissolved gases standard if there is significant increase in fish mortality. Environmental Quality Commission Minutes Special Meeting Page 15 May 16, 1994

3. The agency concludes that following the permanent rulemaking process, rather than taking this temporary rulemaking action, will result in the consequences stated above because the current outmirgration of juvenile smolt will be complete before a permanent rule could be adopted.

4. This temporary rulemaking action will avoid or mitigate these consequences by allowing for additional, immediate spills at certain dams without violating state water quality standards.

The motion was approved three to two with Chair Wessinger, Commissioners Castle and McMahan voting yes, Commissioners Whipple and Lorenzen voting no.

There was no further business, and the meeting was adjourned at 4:10 p.m.

= see Page 9. Approved Approved with Corrections

Minutes are not final until approved by the EQC

ENVIRONMENTAL QUALITY COMMISSION

Minutes of the Two Hundred and Fortieth Meeting October 20 and 21, 1994

Work Session

The Environmental Quality Commission work session was convened at 1 p.m. on Thursday, October 20, 1994, Conference Room 3A, Oregon Department of Environmental Quality (DEQ), 811 S. W. Sixth Avenue, Portland, Oregon. The following Commission members were present:

Emery Castle, Vice Chair Henry Lorenzen, Commissioner Linda McMahan, Commissioner Carol Whipple, Commissioner (William Wessinger was absent.)

Also present were Lydia Taylor, Interim Director, DEQ, and other DEQ staff.

1. Informational item: report on coastal nonpoint source program.

The Department of Environmental Quality (DEQ) and Department of Land Conservation and Development (DLCD) are required by federal law to develop a coordinated state program to protect and enhance coastal waters. The program, called the Coastal Nonpoint Pollution Control Program (CNPCP), is intended to address the growing threat to coastal waters from population growth and development. The report summarizes the Department's work in developing programs and measures to meet federal requirements and to address pollution problems from urban development, including on-site disposal systems, erosion and runoff control, riparian protection and roads, highways and bridges.

Vice Chair Castle and other Commissioners indicated they liked the options of working with local governments and other agencies and stressed that coordination was critically important. Commissioner Whipple commented that the CNPCP may be an issue that requires the utmost attention. She indicated concern over the requirement for periodic inspection of septic systems. She expressed concerns about the definition of the management area for the program. She also commented that it is important for the public to hear the same information as was presented to the Commission.

Vice Chair Castle commented that a local entity of some sort would be in a better position to deal with some of the requirements of the CNPCP. He reflected that perhaps some existing programs would work better if implemented through a local entity. He indicated that there would be more willingness on the part of the public to cooperate with a local entity.

2. Informational item: rigid plastic container law workshop.

Presentations were made by Department staff with an overview of Senate Bill 66 and discussion the definition of "rigid plastic container." A panel group comprised of Gail Achterman, chair of the implementation task force, Chris Taylor, representing the Oregon State Public Interest Research Group (OSPIRG), who had been involved both in designing the legislation and in the Department Rigid Plastic Container Task Forces, Jerry Powell, chair of the recycling rate task force, Patty Enneking, representing the American Plastics Council and task force member, and Paul Cosgrove, representing, in general, national companies and the Soap and Detergent Association also made a presentation to the Commission.

The panel gave its perspectives on issues and the Department process. Ms. Enneking described a number of concerns to the plastics industry, such as the inclusion of lids and trays in the definition of "container" and pyrolysis. Mr. Cosgrove mentioned several areas not specifically covered under statute where he believed the Commission had discretion (e.g., exempting products covered under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA); allowing corporate averaging to comply with the law; allowing newly introduced products to use the "reduced container" exemption).

The Commission identified five areas in which they wanted more information for the Friday meeting: 1) federal preemption of state law (e.g., FIFRA); 2) the requirement for a five-year comparison in order to calculate whether a container has met a 10 percent reduction; 3) pyrolysis; 5) point-of-sale packagers; and 5) the definition of "rigid plastic container."

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Regular Meeting

The Environmental Quality Commission regular meeting was convened at 8:30 a.m. on Friday, October 21, 1994, in Conference Room 3A, Oregon Department of Environmental Quality (DEQ), 811 S. W. Sixth Avenue in Portland, Oregon. The following commission members were present:

William Wessinger, Chair Emery Castle, Vice Chair (Note: Commissioner Castle acted as Chair for this meeting.) Henry Lorenzen, Commissioner Linda McMahan, Commissioner Carol Whipple, Commissioner

Also present were Michael Huston, Assistant Attorney General, Oregon Department of Justice, Lydia Taylor, Interim Director, DEQ, and other DEQ staff.

Note: Staff reports presented at this meeting, which contain the Department's recommendations, are on file in the Office of the Director, DEQ, 811 S. W. Sixth Avenue, Portland, Oregon 97204. Written material submitted at this meeting is made a part of this record and is on file at the above address. These written materials are incorporated into the minutes of the meeting by reference.

Acting Chair Castle called the meeting to order.

A. Approval of minutes.

Commissioner Lorenzen moved approval of the following minutes:

- July 21, 1994, special meeting
- August 26, 1994, regular meeting
- September 22, 1994, special meeting
- October 13, 1994, special conference call meeting

Chair Wessinger seconded the motion, and the motion was unanimously approved.

B. Approval of tax credits.

The Department recommended issuance of the following tax credit applications:

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Application Number	Applicant	Description
TC 2900	A. E. Staley Manufacturing Company	A Water Pollution control facility for industrial waste treatment and disposal consisting of irrigation sprinklers, flowmeters, pumps and associated piping, monitoring equipment, a tractor, hay baler, rake, and a 59 acre irrigation field.
TC 3866	Anodizing, Inc.	A water pollution control caustic etch recovery (CER) facility consisting of a crystallizer/clarifier, an alumina separation tank, a centrifuge, a filtration tank and auxiliary pumps and controls.
TC 4091	Polk County Farmers' Co-op	A water pollution control closed loop truck and equipment washing facility consisting of a concrete wash pad, a collection system, a Delta 1000 water treatment system and a protective housing shed.
TC 4092	Polk County Farmers' Co-op	A water pollution control closed loop washing facility consisting of an All American Oil water separation system, a wash slab and a protective housing shed.
TC 4203	Cascade Farm Machinery Company, Inc.	A water pollution control closed loop industrial wastewater recycling facility consisting of a Water Mage Delta unit, a sump, pits and associated electrical and plumbing equipment.
TC 4210	Talent Gas-4-Less	A water quality Underground Storage Tank (UST) facility consisting of three doublewall fiberglass tanks and piping, spill containment basins, a tank gauge system with overfill alarm, automatic shutoff valves, line leak detectors, sumps and Stage I and II vapor recovery piping.

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Application Number	Applicant	Description
TC 4245	Lamb Weston, Inc.	A water pollution control irrigation expansion facility to prevent groundwater pollution consisting of four center pivots, a Pringle pivot and associated valves, vaults and electrical equipment.
TC 4255	Willamette Industries, Inc.	A water pollution control facility consisting of sumps, an ITT Flyght wastewater pump, a level control system and piping.
TC 4261	Consolidated Metco, Inc.	A water pollution wastewater control facility consisting of an ultrafilter KOCH Membrane unit and associated plumbing and electrical equipment.
TC 4269	Franklin Hoekstre	An air quality field burning facility consisting of a Freeman Big Baler (Model 1592), a Hyster Challenger Lift Truck H180H, a New Holland Rake Model 216, trailers, a tractor, a single axle converter dolly and a fork assembly.
TC 4271	Golden Valley Farms	An air quality field burning facility consisting of a Roadrunner with hay clamp, a Case IH 8580 Baler, a 1085 Bale Wagon, a J.D.4050 tractor, 2 hay rakes, and 2 bale racks

Tax credit application review reports with facility costs over \$250,000:

Application Number	Applicant	Description
TC 3778	Taylor Lumber & Treating, Inc.	A hazardous waste facility consisting of a coated drip pad with liner, a waste collection tray and a leak detection system.

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Application Number	Applicant	Description
TC 4232	Jeld-Wen, Inc.	An air pollution control facility consisting of two Carter-Day baghouse filters and ductwork.

The Department recommended the Commission approve certification for the tax credit applications as listed above.

In regard to TC 2900, A.E. Staley Manufacturing Company, Commissioner Lorenzen raised an issue about the eligibility of land claimed as part of this tax credit request. The Commission determined that the Staley tax credit should be discussed at the December 2 Commission meeting.

Commissioner Whipple moved approval of the above-listed tax credit applications excluding TC 2900; Commissioner McMahan seconded the motion. The motion was unanimously approved. TC 2900 will be considered at the December 2 Commission meeting.

C. Rule adoption: disclosure of the relationship between proposed rules and federal requirements.

This proposed rule would establish a policy statement and set of questions which disclose information on the relationship between proposed rules and any related federal requirements. Department staff would make the information available to the public for review throughout the rulemaking process for any future rules proposed for adoption or amendment. The rule would neither mandate nor preclude any particular decision by the Commission when a rule package is presented for ultimate adoption. The Department recommended adoption of the rules. Olivia Clark and Marianne Fitzgerald of the Director's Office presented this item.

Commissioner Wessinger moved approval of the rules to establish a policy statement and questions which disclose information on the relationship between proposed rules and any federal rule requirements; Commission Whipple seconded the motion. The motion was unanimously approved. Environmental Quality Commission Minutes Page 7 October 20 and 21, 1994

D. Rule adoption: federal operating permit program rule amendments.

This proposed rule would clarify and correct the language in the federal operating permit program rules contained in Chapter 340, Divisions 28 and 32. The proposed rulemaking also would incorporate changes to the minor new source review rule (OAR 240-28-2270) and update the rules in Division 32 for early reductions and accidental release chemicals. The Department recommended the Commission adopt the rule amendments in order to gain U. S. Environmental Protection Agency (EPA) approval of the federal operating permit program. Greg Green, Administrator of the Air Quality Division, and Jill Inahara of the Air Quality Division, presented this item.

Commissioner Lorenzen moved approval of the rule amendments; Commissioner McMahan seconded the motion. The motion was unanimously approved.

Note: Agenda Item D-1 was considered after Agenda Item H.

E. Rule adoption: gasoline vapor recovery permits and fees and oxygenated fuel fees.

These proposed rules would require State I and Stage II vapor recovery permits and fees and gasoline tanker permit fees. The proposal would also repeal the existing oxygenated fuel permit fee on gasoline retailers and reduce the same fee on terminals and distributors. The Department recommended the Commission adopt the rules regarding vapor recovery permits and fees and oxygenated fuel fees as presented in Attachment A of the staff report. Mr. Green, John Kowalczyk, Kevin McCrann and Kevin Downing of the Air Quality Division presented this item.

Chair Wessinger moved approval of the rule; Commissioner Whipple seconded the motion. The motion was unanimously approved.

F. Rule adoption: proposed amendments to water pollution control revolving fund program rules.

This proposed rule amendment would address three problems: 1) the demand for State Revolving Fund (SRF) loans exceeds existing funds by five-to-one; 2) complaints that project scoring for prioritizing is inequitable; and, 3) complaints that the rules are fragmented and difficult to read. An advisory committee assisted in developing the rule revisions. Those revisions included:

• amending how projects are selected and reformatting the selection criteria for

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easier reading and understanding;

- incorporating 1993 legislation thereby allowing the sales of bond to leverage the Fund;
- establishing some caps to ensure more broad coverage by the Fund;
- modifying interest rate calculations; and,
- housekeeping changes.

The Department recommended the Commission adopt the proposed rules as presented in Attachment A of the staff report. Martin Loring and Margaret Vandehey of the Department's Water Quality Division, and Roger Jordan, advisory committee chair, presented this item.

Commissioner Wessinger moved approval of the proposed rule; Commissioner McMahan seconded the motion. The motion was unanimously approved.

Apart from this rule amendment, a brief discussion occurred about the direction staff should take concerning the statutory definition of "public agency" in regard to the State Revolving Fund only. The Commission agreed that Native Americans should be included in the definition.

NOTE: Agenda Item G was considered after Agenda Item D-1; Agenda Item H was considered after Agenda Item I.

I. Action item: standards, criteria, policy directives and hiring procedures to be used in hiring director of the Department of Environmental Quality.

A new director was last hired by the Commission in January 1984. The minimum standards for the position, evaluation criteria, policy relating to recruitment strategies and hiring process for the position of director have not been submitted for public comment for the past decade. These standards and practices must be submitted for public comment prior to recruiting and hiring a director if the Commission wants to meet in executive sessions.

The Department drafted proposed standards, criteria, policy directive and hiring procedures for the Commission to consider for public comment. Following public comment and adoption, the Department can implement recruitment and screen candidates for the Commission. The Department recommended the following:

• that the Commission direct the Department to furnish for public review and comment the standards, criteria, policy directive and hiring procedures;

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- that the Commission select a meeting date to consider public comment on the above items; and,
- that after considering public comments, adopt the standards, criteria, policy directive and hiring procedures and direct the Department to implement the adopted hiring procedures.

Chair Wessinger asked about using a consulting firm for recruiting. Ms. Taylor indicated that it may take up to three months to hire the new director. Commissioner Castle asked to have "or equivalent experience" added to the minimum standards.

The Commission decided to adopt the standards at their regular December 2, 1994, meeting rather than hold a special meeting in November. The Department was directed to proceed with public hearings and comments.

H. Rule adoption: implementation of Oregon's rigid plastic container law.

The proposed rules included the following topics:

- a definition of rigid plastic container;
- clarification of statutory exemptions;
- standards for product and container manufacturer compliance, record keeping and reporting;
- procedures for protecting trade secrets; and,
- provisions for enforcing violations.

The Department recommended the Commission adopt the proposed rules as presented in Attachment A of the staff report. *Allegative*

Assistant Attorney General Michael Huston began by pointing out that the rigid plastic × container law is not a "delegated" statute; that is, it is very specific concerning definitions, exemptions, mandates and options for compliance. He said the Legislature adopted the policy, leaving a somewhat limited role for the Commission in adopting implementing rules. He said he believed it was significant that the statute did not contain an exemption for FIFRA-regulated products. Mr. Huston said he did not agree with comments that suggested where the legislation was silent, the Commission could proceed as it wished. He noted that the Attorney General's Office had given advice on several issues, but that the Commission could choose a different path. Discussion of this item concerned the five issues identified by the Commissioners at the Thursday work session. Those items are listed below:

- 1. <u>Federal preemption of state law (especially under FIFRA)</u>. Larry Edelman, Assistant Attorney General, said he would have had to find the preemption case to be 95 to 100 percent clear to state that State law was preempted.
- 2. <u>Pyrolysis</u>. Mr. Edelman indicated that given the hierarchy in existing solid waste law, energy recovery was clearly separate from recycling and lower on the hierarchy. He said his interpretation of the statute supports the language proposed by the staff report, which says that any "energy" products of plastics pyrolysis do not count as recycling for purposes of the rigid plastic container recycling rate.
- 3. <u>Point-of-sale packagers</u>. Mr. Edelman said that the statute does not provide exemptions for any group (including small point-of-sale packagers); however, he said the Commission has substantial discretion to reduce requirements which is in the proposed rule.
- 4. <u>Reduced package</u>. Mr. Edelman said he found that the statute allows "no wiggle room" in making a comparison with a product and container existing five years previously in determining whether a package has been reduced 10 percent to qualify for the "reduced container" exemption.
- 5. <u>Definition of rigid plastic container</u>. Pat Vernon, Waste Management and Cleanup Division, discussed "lids" and "trays" and Department rationale for including those items under regulation. Ms. Achterman noted that this was an area that the task forces found particularly difficult.

Senator Dick Springer, Bruce Walker from the City of Portland, and members of the Oregon State Public Interest Research Group (OSPIRG) spoke to the Commission. Most noted that Oregonians want to be able to recycle more plastics.

Commissioner Lorenzen expressed interest in the policy implications and technology of pyrolysis. The Commission indicated that they would like to review the Department's report to the Legislature (which includes pyrolysis) and indicated that they will then determine what more, if anything, they would like included regarding pyrolysis. Commissioner Whipple said she was interested in the five-year comparison (for reduced containers) and was concerned that excluding products that had not been on the market for five years might not result in appropriate public policy (i.e., source reduction, innovation).

Commissioner McMahan moved approval of the proposed rules with two technical amendments (one a "comment" specifying that tubes and blister packs are not included, and the other correcting references to the "rigid plastic container recycling rate," specifying that it should be the "recycling rate for compliance purposes" in certain sections of the rule). Commissioner Whipple seconded the motion, and the motion was unanimously approved.

PUBLIC FORUM

No public testimony was given.

D-1. Informational item: report on environmental equity project.

In response to concerns about disproportionate environmental impacts on low income and minority populations, the Governor's Office asked the Department to take the lead on an environmental equity project in cooperation with other state agencies. An advisory committee studied the issue since January and developed recommendations and a report to the Governor.

Committee Chair Victor Merced made an informational presentation of the committee's conclusions to the Commission. He was joined by committee members Richard Craig and Linda Lutz.

Mr. Merced provided background information on the Oregon Environmental Equity Project, the committee's charge and issues addressed. He also presented the committee's directives to natural resource agencies, intended to assure that equity is incorporated into the state's environmental decision-making processes. (The committee also offered recommendations for agencies to implement in order to gain this assurance.

Mr. Merced indicated that the Governor's Office would provide direction to natural resource agencies for implementing the committee's recommendations. The committee's recommendations also include that the Governor's Office establish an Environmental Equity Citizen Advisory Board to advise the state's continuing efforts to ensure environmental equity.

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RESOLUTION

Commissioner Lorenzen read the following resolution:

The Environmental Quality Commission wishes to express its great appreciation for the many outstanding accomplishments of our former Department Director, Fred Hansen. His integrity and industry have benefitted greatly not only the environmental quality of Oregon but also and equally important the quality of government in Oregon. Through his commitment to resolving contentious issues by building consensus among affected parties he has developed a tradition of good government process and good results. it is an understatement to say that his achievements have been many. he will be sorely missed. We thank him for what he has done for Oregon. I wish him the best of fortune in his new position in as Deputy Director of EPA.

Chair Wessinger moved adoption of the resolution by acclamation; the resolution was unanimously approved.

G. Rule adoption: technical corrections to modifications of on-site sewage disposal rule.

At the previous Commission meeting on September 22, the Department presented a staff report requesting adoption of amendments to the administrative rules establishing standards for the on-site sewage disposal program. The proposed rule package included the advisory committee recommendations and other recommendations made during the discussion which were adopted. As the documents were being prepared for filing, several defects requiring correction were found. This proposal would incorporate all the last-minute additions presented and accepted at the September 22 meeting, the defects in the original package have been corrected and the implementation date for Water Pollution Control Facility (WPCF) activities has been moved up. The Department recommended the Commission adopted the proposed rule amendments.

Alex Mauck, EEE ZZZ Lay Drain Company, told the Commission he was concerned about staffing for the technical review committee (TRC) to be formed for the on-site sewage rules. He said several manufacturers, including himself, cannot go forward until the TRC is formed, staffed and maintained. He said the TRC would be functioning by the end of November. He said that the TRC needs to be comprised of a broad base of members. Environmental Quality Commission Minutes Page 13 October 20 and 21, 1994

> Commissioner Lorenzen moved approval of the rule amendments; Commissioner Whipple seconded the motion. The motion was unanimously approved.

J. Commission member reports.

There were no Commission member reports.

K. Director's report.

Earth Science Penalty: In the second largest civil penalty in DEQ history, the Department assessed a \$480,000 civil penalty against Earth Science Technology, Inc. for violating federal and state underground storage tank regulations. The company, located in Beaverton, was also notified that the Department proposes to revoke its service provider license.

The company provided a tank tightness testing service required of tank owners. The Department has documented 320 tanks throughout Oregon on which Earth Science performed tank tightness tests in violation of the law. The Department found that employees did not receive adequate training, did not have the necessary and appropriate equipment and did not perform the tests as required by the regulations.

<u>Environmental Partnerships for Oregon Communities (EPOC) Update</u>: The City of Nyssa is expected to be the first of three Oregon cities to sign a multi-agency, multimedia compliance agreement under the EPOC program. Completion of a Mutual Agreement and Order between the City of Nyssa, Oregon Health Division and Department is expected in December following public notice and comments.

The EPOC partners evaluated Nyssa's environmental requirements and are setting priorities to ensure that public health and the environment are addressed in an efficient and comprehensive manner. The Nyssa EPOC team has focused on drinking water, water treatment and underground storage tank issues, and will develop a schedule to achieve and maintain compliance in these areas.

Similar EPOC efforts are underway in the cities of Powers and Rainier.

<u>Klamath Falls Co-Gen Proposal</u>: The city of Klamath Falls has begun discussion with DEQ Western Region staff on a proposal to build a 240 megawatt co-gen facility.

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<u>Oxygenated Fuel Season Set to Begin</u>: To reduce carbon monoxide pollution during the winter, oxygenated (oxy) gasoline will be sold in several Oregon cities beginning November 1. Oregon service stations will primarily sell gas to which ethanol has been added.

Oxygenated fuel will be sold at all gas stations in the Portland tri-county area, Yamhill and Jackson counties, Medford, Grants Pass and Klamath Falls. These areas do not meet federal standards for carbon monoxide pollution. The oxy fuel season runs from November 1 to February 28.

Studies in Oregon showed reductions of up to 20 percent in tailpipe emissions of carbon monoxide levels last winter because of oxy fuel. During the first year of the program many drivers complained about changed in car performance. Oxy fuels flush a car's system of deposits and residue. This often clogs the fuel filter, but once the filter is replaced, the problem is eliminated. Oxy fuels will not adversely affect the performance of properly tuned and maintained car engines.

Hearing Authorizations:

• EPA General Conformity Rules

The EPA adopted the General Conformity rule in 1993, which requires federal agencies to comply with state air quality rules in nonattainment areas. States are required to revise their State Implementation Plans (SIPs) to reflect these provisions. The EPA stated their intent to include attainment areas under the General Conformity rules at an unspecified time in the future. DEQ's proposed rules would adopt the federal provisions, plus require conformity in attainment areas. This action would ensure that prescribed burning activities of the U.S. Forest Service and Bureau of Land Management are managed to minimize smoke impacts. Neither agency has expressed concerns with the proposed rules.

• EPA/DOT Transportation Conformity Rules

As with the General Conformity rules, all states are required to revise their SIPs to reflect new requirements that federal transportation projects comply with state air quality rules. The DEQ's proposed rule would make these changes, plus require any "regionally-significant" transportation projects (regardless of funding source) to meet the same standards as federally-funded Environmental Quality Commission Minutes Page 15 October 20 and 21, 1994

> projects. Compliance of a project with an emission budget in a SIP would also be required upon approval by the Commission rather than upon final approval by the EPA. An advisory committee is reported to be near final agreement on all issues.

• Revisions to Prevention of Significant Deterioration (PSD) and Oregon Smoke Management Plan (OSMP)

Changes would update data used to define baseline, update Class I boundaries to reflect congressional increases (required by the Clean Air Act Amendments ((CAAA) 1990), replace Total Suspended Particulate (TSP) increment in PSD with a Particulate Matter (PM)₁₀ increment (required by EPA rule), and adopt changes to the OSMP made by the Oregon Department of Forestry.

• Three Basin Rule

The advisory committee continues to make progress and is expected to reach consensus in November on one of four options:

- 1. limiting degradation based on assimilative capacity;
- 2. establishing an offsets program to maintain current water quality;
- 3. allowing most discharges while monitoring water quality; and,
- 4. prohibiting most discharges.

All options would "grandfather" existing sources at current mass load limits. No legal conflicts with state or federal law are expected with any of the four current options. Additional DEQ staff would be required to implement the first two options.

• Total Dissolved Gas (TDG) Criteria for Columbia River

A permanent solution is needed to prevent current water quality standards from impeding spill programs intended to improve salmon survival rates. Temporary rules, used this summer, can only be used once. The proposed rule modification would allow the Director to modify TDG criteria based on results of ongoing research and to evaluate the risks of higher TDG levels relative to the benefits of increased spill rates. The proposed rule would be consistent with the rules of Washington and Idaho, which provide the Director with this flexibility. Proposed adoption would be in February 1995.

There was no further business, and the meeting was adjourned.

Environmental Quality Commission

Action Item Information Item	Agenda Item December 2, 1994 Mee
<u>Title:</u>	
Approval of Tax credit Applications	
Summary:	
New Applications - 54 tax credit applications with a total facility cost of	
\$ 29,613,233.00 are recommended for approval as follows:	
- 11 Air Quality facilities with a total facility cost of:	\$ 1,941,657
- 6 Air Quality CFC facilities having a facility cost of:	\$ 15,461
- 2 Field Burning related facility recommended by the Department of	
Agriculture with a total facility cost of:	\$ 56,365
- 4 Plastic Recycling facilities with a total facility cost of:	\$ 388,799
- 2 Solid Waste Recycling facilities having a facility cost of:	\$24,004,261
- 2 Water Quality facilities costing:	\$ 685,699
- 27 Water Quality (UST) facilities with a total facility cost of:	\$ 2,520,991
Seven (7) applications with claimed facility cost exceeding \$250,000 we	**
reviewed by independent accounting firm contractors. The review states	
are attached to the application reports. An issue pertaining to the eligib	
costs for to the replacement of a UST facility not located at the same sit	
the new facility (TC 4262, Truax Harris Energy Company) is discussed	
body of the staff report.	
body of the start report.	۶
Issues pertaining to TC 2900, A.E. Staley Manufacturing Company, TC	4243.
Oregon Steel Mills, Inc. and TC 4252, Willamette Industries, Inc. are	
discussed in the Background section of the attached report. Also, to fac	rilitate
the Commission's review, the certifiable facility cost of each facility and	
percent allocable, if applicable, are presented in parentheses for each fac	
in the applicant column of the staff report.	child y
Department Recommendation:	ad in
Approve issuance of tax credit certificates for 54 applications as present	eu m
Attachment A of the staff report.	
Approve the revision of tax credit certificate 2295 issued to Carmichael	
Columbia Oil, Inc. to reflect the fact that the majority of the facility is	
longer in use.	
the second desire	
Muchuel Hours Mydea Day	on the second se
Report Author Division Administrator Director	

[†]Accommodations for disabilities are available upon request by contacting the Public Affairs Office at (503)229-5317(voice)/(503)229-6993(TDD).

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State of Oregon Department of Environmental Quality

Date: December 2, 1994

To: Environmental Quality Commission

From: Lydia Taylo

Lydia Taylor, Interim Director Rysica Daylor

Subject: Agenda Item B, December 2, 1994 EQC Meeting

Approval of Tax Credit Applications

Statement of the Need for Action

This staff report presents the staff analysis of pollution control facilities tax credit applications and the Department's recommendation for Commission action on these applications. The following is a summary of the applications presented in this report:

Tax Credit Application Review Reports:

Application Number	Applicant	Description
TC 2900	A.E. Staley Manufacturing Company (\$206,568)	A water pollution facility for industrial waste treatment and disposal consisting of irrigation sprinklers, flowmeters, pumps and associated piping, monitoring equipment, a tractor, hay baler, rake and a 59 acre irrigation field.
TC 4082	Pacific Rim Trading (\$5,950)	A reclaimed plastic product facility consisting of three plastic injection molds for manufacturing plastic parts.
TC 4119	H.C.R., Inc. Dba Hergert's Industries, Inc. (\$64,266)	A reclaimed plastic product facility consisting of a plastic injection mold for manufacturing lids and bases for compost bins.
TC 4221	Hayden Saab Services, Inc. (\$3,996 /82%)	An air pollution control CFC facility consisting of a machine that removes and cleans automobile air conditioner coolant.

[†]A large print copy of this report is available upon request.

Application Number	Applicant	Description
TC 4233	Wayne E. Burger Dba Fast Stop Gas (\$19,803 /82%)	An underground storage tank (UST) facility consisting of two fiberglass tanks and doublewall fiberglass piping, spill containment basins, a tank gauge system, overfill alarm, automatic shutoff valves, monitoring wells, sumps and Stage II vapor recovery piping.
TC 4238	Stein Oil Co., Inc (\$7,719)	An air pollution control facility consisting of an above ground Stage II vapor recovery balance type system.
TC 4244	Energy Systems NW (\$1,655)	An air pollution control CFC facility consisting of a machine that removes air conditioner or commercial refrigerant coolant.
TC 4246	Les and Terry's Chevron Service, Inc. (\$147,989 /89%)	An underground storage tank (UST) facility consisting of three doublewall fiberglass tanks and doublewall flexible piping, spill containment basins, a tank gauge system, overfill alarm, automatic shutoff valves, line leak detectors and monitoring wells.
TC 4250	Jesse's Auto Service (\$2,295)	An air pollution control CFC facility consisting of a machine that removes and cleans automobile air conditioner coolant.
TC 4256	Radio Cab Company (\$146,140 /94%)	An underground storage tank (UST) facility consisting of a two- compartment doublewall STI-P3 tank and doublewall fiberglass piping, spill containment basins, a tank gauge system, automatic shutoff valves, line leak detectors, monitoring wells, sumps and Stage I and II vapor recovery equipment.

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Application Number	Applicant	Description
TC 4257	Stein Oil Company, Inc. (\$69,131 /99%)	An underground storage tank (UST) facility consisting of doublewall fiberglass piping, spill containment basins, line leak detectors and Stage II vapor recovery equipment.
TC 4258	Stein Oil Company, Inc. (\$117,388 /89%)	An underground storage tank (UST) facility consisting of three doublewall fiberglass tanks and piping, spill containment basins, underground preparation for a tank gauge system, automatic shutoff valves, line leak detectors, turbine leak detectors, monitoring wells, sumps and Stage I and II vapor recovery equipment.
TC 4259	John's Automotive Service (\$3,525 /80%)	An air pollution control CFC facility consisting of a machine that removes and cleans automobile air conditioner coolant.
TC 4262	Truax Harris Energy Co. (\$160,826 /88%)	An underground storage tank (UST) facility consisting of four doublewall fiberglass tanks and flexible doublewall piping, spill containment basins, a tank gauge system, overfill alarm, turbine leak detectors, monitoring wells, sumps, an oil/water separator and Stage I and II vapor recovery equipment.
TC 4263	Fairgrounds Service, Inc. (\$78,474 /81%)	An underground storage tank(UST) facility consisting of three doublewall fiberglass coated steel tanks, doublewall flexible piping, spill containment basins, a tank gauge system, automatic shutoff valves, monitoring wells with overfill alarm, sumps and Stage I and II vapor recovery piping.

Application Number	Applicant	Description
TC 4272	West Central Service, Inc. (\$113,149 /81%)	An underground storage tank (UST) facility consisting of four fiberglass tanks, doublewall fiberglass piping, spill containment basins, a tank gauge system with overfill alarm, automatic shutoff valves, turbine leak detectors, sumps and monitoring wells.
TC 4273	Western Stations Company (\$100,733 /92%)	An underground storage tank (UST) facility consisting of two fiberglass clad steel tanks, doublewall flexible piping, spill containment basins, a tank gauge system, line leak detectors, sumps, and Stage I and II vapor recovery equipment.
TC 4274	Western Stations Company (\$94,707 /99%)	An underground storage tank (UST) facility consisting of cathodic protection on three steel tanks, doublewall flexible piping, spill containment basins, a tank gauge system, overfill alarm, automatic shutoff valves, line leak detectors, sumps and Stage I and II vapor recovery equipment.
TC 4276	Truax Harris Energy Co. (\$32,106)	An air pollution control facility consisting of an above-ground Stage II vapor recovery balance type system.
TC 4277	Truax Harris Energy Co. (\$15,814)	An air pollution control facility consisting of an above-ground Stage II vapor recovery balance type system.
TC 4278	Truax Harris Energy Co. (\$16,298)	An air pollution control facility consisting of an above-ground Stage II vapor recovery balance type system.

Application Number	Applicant	Description
TC 4279	Truax Harris Energy Co.	An underground storage tank (UST) facility consisting of a tank
	(\$17,361 /96%)	monitor system with alarm.
TC 4280	Truax Harris Energy Co. (\$17,895)	An air pollution control facility consisting of an above-ground Stage II vapor recovery balance type system.
TC 4281	Truax Harris Energy Co. (\$18,594)	An air pollution control facility consisting of an above-ground Stage II vapor recovery balance type system.
TC 4282	Truax Harris Energy Co. (\$29,538)	An air pollution control facility consisting of an above-ground Stage II vapor recovery balance type system.
TC 4283	Truax Harris Energy Co. (\$29,853 /97%)	An underground storage tank (UST) facility consisting of a tank monitoring system with alarm and Stage II vapor recovery equipment.
TC 4284	Truax Harris Energy Co. (\$36,059 /98%)	An underground storage tank (UST) facility consisting of a tank monitoring system with alarm and Stage II vapor recovery equipment.
TC 4285	Truax Harris Energy Co. (\$36,267 /98%)	An underground storage tank (UST) facility consisting of a tank monitoring system with alarm and Stage II vapor recovery equipment.
TC 4286	Truax Harris Energy Co. (\$58,017 /98%)	An underground storage tank (UST) facility consisting of a tank monitoring system with alarm and Stage II vapor recovery equipment.
TC 4292	Obie's Import Repair, Inc. (\$1,995 /65%)	An air pollution control CFC facility consisting of a machine that removes and cleans automobile air conditioner coolant.

Application Number	Applicant	Description
TC 4293	Truax Harris Energy Co. (\$22,066 /98%)	An underground storage tank (UST) facility consisting of a tank monitoring system with alarm and Stage II vapor recovery equipment.
TC 4294	Truax Harris Energy Co. (\$28,237)	An underground storage tank (UST) facility consisting of Stage II vapor recovery equipment.
TC 4295	Truax Harris Energy Co. (\$35,755)	An air pollution control facility consisting of an above-ground Stage II vapor control vacuum assist type system.
TC 4297	Ware's Auto Body, Inc. (\$1,995 /65%)	An air pollution control CFC facility consisting of a machine that removes and cleans automobile air conditioner coolant.
TC 4298	Winnoco, Inc. (\$16,990 /97%)	An underground storage tank (UST) facility consisting of a tank gauge system and line leak detectors.
TC 4301	Carmichael Columbia Oil, Inc. (\$99,220 /74%)	An underground storage tank (UST) facility consisting of three doublewall fiberglass tanks (including one dual compartment tank), piping, spill containment basins, a tank gauge system, automatic shutoff valves, line leak detectors, sumps, an oil/water separator and Stage I and II vapor recovery piping.
TC 4306	WWDD Partners (\$42,083)	A reclaimed plastic product facility consisting of a Freightliner Model FL-70 truck with van and liftgate.
TC 4309	Dale A. Eisiminger (\$6,500 /80%)	An air quality field burning facility consisting of a Case IH Model 770 offset disk.

Application Number	Applicant	Description
TC 4310	Western Stations Company (\$133,507 /91%)	An underground storage tank (UST) facility consisting of three fiberglass clad steel tanks, doublewall flexible piping, spill containment basins, a tank gauge system with built-in line leak detection, an overfill alarm, automatic shutoff valves, and Stage I and II vapor recovery equipment.
TC 4311	Truax Harris Energy Co. (\$112,399 /87%	An underground storage tank (UST) facility consisting of three doublewall fiberglass tanks and flexible doublewall piping, spill containment basins, upgrades of a tank gauge system, an overfill alarm, monitoring wells, sumps and Stage I and II vapor recovery equipment.
TC 4312	Truax Harris Energy Co. (\$121,967 /88%)	An underground storage tank (UST) facility consisting of three doublewall fiberglass tanks and flexible doublewall piping, a tank gauge system, monitoring wells, sumps and Stage I and II vapor recovery equipment.
TC 4313	Truax Harris Energy Co. (\$182,997 /93%)	An underground storage tank (UST) facility consisting of three doublewall fiberglass tanks and flexible doublewall piping, spill containment basins, upgrades for a tank gauge system, monitoring wells, sumps, turbine leak detectors, an oil/water separator and Stage I vapor equipment.
TC 4314	Dennis Thompson Dba Tigard Arco (\$57,719)	An underground storage tank (UST) facility consisting of sumps and Stage I and II vapor recovery equipment.

Application Number	Applicant	Description
TC 4315	Truax Harris Energy Co. (\$99,362 /87%)	An underground storage tank (UST) facility consisting of three doublewall fiberglass tanks and flexible doublewall piping, monitoring wells, sumps and Stage I and II vapor equipment.
TC 4316	Truax Harris Energy Co. (\$219,570 /93%)	An underground storage tank (UST) facility consisting of three doublewall fiberglass tanks and flexible doublewall piping, spill containment basins, a tank gauge system with overfill alarm, turbine line leak detectors, monitoring wells, sumps, an oil/water separator and Stage I and II vapor recovery equipment.
TC 4317	Truax Harris Energy Co. (\$201,060 /93%)	An underground storage tank (UST) facility consisting of three doublewall fiberglass tanks and flexible doublewall piping, spill containment basins, a tank gauge system with overfill alarm, turbine line leak detectors, monitoring wells, sumps, an oil/water separator and Stage I and II vapor recovery equipment.
TC 4318	Lyle D. Neuschwander (\$49,865 /62%)	An air quality Field Burning facility consisting of a John Deere 4850 200 HP tractor.

Tax Credit Application Review Reports With Facility Costs Over \$250,000 (Accountant Review Reports Attached).

Application Number	Applicant	Description
TC 4138	DBD Leasing (\$276,500)	A reclaimed plastic product facility consisting of a 6' 30:1 L/D Sterling/Davis-Standard Extruder and associated equipment and a GALA ES6/80 underwater pelletizing system for converting scrap plastic into uniform pellets.
TC 4175	International Paper Corporation (\$479,131)	A water pollution control industrial wastewater facility consisting of 25 linear feet of 36 inch diameter stainless steel pipe, 1500 linear feet of 36' HPDE pipe, an 8'x 21' concrete inlet structure and a carbon steel outlet weir box.
TC 4194	South Coast Lumber Company (\$255,427)	An air pollution control facility consisting of a Pneumafil #16-648-12 baghouse, two Twin Cities #660-HIB-24 fans and fire protection for the baghouse.
TC 4235	Intel Corporation (\$554,406)	An air pollution control facility consisting of two Harrington Model ECH913-5LB acid scrubbers and a Flanders Model ES4X3CGF4 arsenic dust collector.
TC 4243	Oregon Steel Mills, Inc. (\$12,017,469)	A solid waste recycling facility consisting of an electric arc furnace (EAF) baghouse dust glassification plant.
TC 4252	Willamette Industries, Inc. (\$11,986,792)	A solid waste recycling facility consisting of modifications to and the expansion of a waste paper recovery and utilization system for used corrugated cardboard.
TC 4300	Neste Resins Corporation (\$958,105)	An air pollution control facility consisting of a Durr regenerative thermal oxidizer (RTO) and ducting for control of formaldehyde, phenol and methanol emissions (classified as volatile organic compounds (VOC) and hazardous air pollutants (HAP)).

Background

Significant issues related to several claims for tax credit relief are discussed below:

A.E. Staley Manufacturing Company, TC 2900.

Included in this claim for a water pollution facility is \$83,000 for the purchase of 59 acres of land for use as an irrigation field. The applicant claims that the land is required to allow for the irrigation of additional wastewater created as the result of upgrading their manufacturing plant and its pollution control facilities. Irrigation, via use of sprinkler irrigation equipment, enables the firm to meet its waste discharge permit requirements.

Discussion of the issues

Land qualifies as a facility or portion of a facility for tax credit if A) it furthers achieving compliance with Department statutes and rules or Commission orders or permit conditions and B), in this case, meets the requirements of a sole purpose facility (OAR 340-16-025). Moreover, the land claimed must be directly related to the operation of the facility or its costs may be disallowed on the basis that it makes an insignificant contribution to the principal or sole purpose of the facility. Presumably, costs for land claimed in excess of the requirement for effective operation of the facility could be disallowed on this basis.

In this case, the applicant indicates (and the Department agrees) that the land claimed is required to meet the wastewater dispersion requirement imposed by permit conditions and has as its only function the control, reduction or prevention of a substantial quantity of water pollution.

A related issue concerns the determination of costs properly allocable to pollution control. Two aspects of this determination pertain to this claim. The first is whether there is a return on investment for the facility that would result in the diminution or denial of the claim. The second is whether an alternative method, equipment and (or) costs for achieving the same pollution control objective is available (and should have been used).

The applicant estimates that revenues from hay harvested and sold annually from the claimed acreage amount to \$4,241 and that average annual operating expenses are \$41,259, producing an average net cost of \$37,018. As previously indicated, the cost of the land claimed is \$83,000. Discussions with experts of the Department of Agriculture indicate the estimated return from the sale of hay from the claimed acreage is reasonable for the Stanfield area and the Department has revalidated the claimed operating costs for the facility. The applicant has provided documentation to substantiate the cost of the land claimed. This documentation is available to the Commission upon request.

Aside from conceptual issues related to the return on investment for land, the value of the land purchased and claimed in this application would have to appreciate an average of 37,018 per annum over the period March 1, 1990 (project completion date) to 3/1/95 to achieve the investment break even point for the claimed facility. This means that the property alone would have to appreciate from 83,000 to more than 268,110 over this period before there could be any return on investment for the claimed facility. The annualized return on investment required for this to occur is approximately 26.5%.

Of course, given that land has an infinite expected useful life, any positive return on investment above the investment break even point would produce a zero percent allocable result, either for the claimed land, if treated separately, or for the facility as a whole, unless an expected useful life for land were established by rule or statute.

Another issue related to cost allocability is whether a less costly alternative for achieving pollution control is available and whether the price paid for the claimed facility is such that a warranted assumption can be made that either the sole purpose of the facility is not pollution control or that a portion of the land makes an insignificant contribution to pollution control. In either case the question is was the land or a portion of it purchased for reasons not related to pollution control?

In the Department's opinion this assumption is probably not warranted. First, the per acre cost of the purchased land was approximately \$1,400. This does not appear to be exorbitant. In addition, the Water Pollution Control Permit (WPCP) requires the land application of wastewater to meet the agronomic rate or nutrient requirements of the crop(s) raised in the disposal field. The acreage purchased for this purposed has been determined to be appropriate to allow for land treatment of wastewater at permitted levels. The alternative is to utilize the municipal wastewater facility of the City of Stanfield, which at present does not have sufficient capacity to process the additional wastewater generated by the firm's manufacturing plant.

Historically, numerous tax credits having land as a component have been approved, including for example TC 28, 1969 (80 acres for irrigated waste disposal), TC 335, 1972 (64 acres for waste disposal), TC 627, 1975 (889 acres for wastewater irrigation), TC 1289, 1980, (143 acres for emergency sludge storage and disposal), and TC 3992, 1993 (@ 30 acres for wastewater irrigation). This is by no means an exhaustive list.

Due to the concern by the Commission that the program is subsidizing the purchase of an investment that can be expected to appreciate in value over time, the Department has examined alternatives to the current treatment of this asset category.

Alternatives:

Aside from the issue of the eligibility of land that may be claimed in a given application, the question remains whether land as a potentially appreciable asset should be evaluated in a manner similar to an income producing pollution control facility. Under 340-15-

030(2)(b) and (e) the Commission is required to consider and make appropriate findings regarding, among other factors, the estimated annual percent return on the investment in the facility and other factors which are relevant in establishing the portion of the actual cost of the facility proper applicable to the prevention, control or reduction of pollution. Two alternatives that could be considered in determining the allocability of the cost of land to the control of pollution are presented below.

A) Given that land is a potentially appreciable asset, the return on land that is claimed as a pollution control facility could be calculated by estimating the estimated five year average annual cash flow (as is done under the current rules for income producing facilities) using either a market data or income capitalization approach and dividing that amount into the facility cost to obtain the return on investment factor. A useful life or holding period would have to be determined by the applicant (or by the Department) that would correspond to the estimated period of time that the land would continue to be used as a pollution control facility (but presumably no fewer than 10 years). The return on investment of the land, per se, or of land in addition to all other cash flow generating facilities included in the overall claim would then be compared to the reference rate of the return presented in Table 2 to derive the percent allocable factor.

Under this alternative, land could be treated separately or as an element of the larger tax credit claim. If the return on land were considered in conjunction with other facilities claimed in a application, it is possible that no rules changing process would be required. However, unless the return on the land investment were relatively large in relation to the value of the total claim, the percent allocable would not be affected. Were land to be treated separately, however, it is likely that new rules would have to be written to address the issue. Moreover, it should be noted that an estimated increase in the value of an asset differs from the concept of income as presented under the current rules. Generally, facilities that produce returns on investment are those that generate significant cash flow and/or savings from the production or reuse of an industrial resource. In the case of land no cash flow or profits are obtained until the asset is sold, unless rental income is derived from a lease.

B) Following the rules pertaining to pollution control facilities that are integral to the operation of a business, land could be treated in a manner that is similar to a facility that is integral to the operation of a business. Under this alternative, the average appreciation rate of the claimed land, as indicated by the average increase/decrease in assessed value for the real estate (excluding improvements) for the five years prior to the completion of the facility could be compared to the average five-year return on U.S. farmland for the same period as presented in the Chase Investment Performance Digest or other authoritative reference and the percent allocable derived. However, unlike truly integral facilities, the allocability of land costs to pollution control would be treated apart from the cost

of other elements claimed in an application for pollution control relief. This approach would almost certainly require a formal revision to the rules.

The Department is available to analyze any alternative proposals.

Oregon Steel Mills, Inc.

Oregon Steel Mills in conjunction with its contractors designed and manufactured a stateof-the-art electric arc furnace baghouse dust glassification plant to manage metallic dust pollution produced by its steel production process. The applicant subsequently entered into a partnership with one of its contractors to form Glassification International Limited, which will market the technology gained as a result of developing the glassification facility. Revenues that may accrue to this partnership were not considered in determining the return on investment from the facility because the return from this activity is considered to be a return on human capital i.e., a return on research and development costs, and not a return on the investment in the pollution control facilities, per se. The cash flow resulting from the sale of glass product generated by the facility was included as income for the purpose of determining cost allocability, which resulted in a zero percent return on investment under the Rules. To be consistent, all research and development costs related to the design and construction of the facility were excluded from eligibility.

Willamette Industries, Inc.

In completing Section V, Allocation of Cost, of an application for pollution control facilities tax credit the applicant is asked to determine the expected useful life of the claimed facility. The useful life is defined as the number of years the claimed facility is capable of operating before replacement or disposal. In this case the applicant claims an expected useful life of 10 years for its waste paper recovery and utilization system. As indicated in the staff report the use of a factor of 10 years useful life in relation to the cash flow that is estimated for the facility results in 100% of the facility's cost being allocable to pollution control.

In as much as this useful life figure appeared conservative, given that certain upgrades for facilities approved for tax credit relief in 1977 and 1980 are still in use and are incorporated into the current recycling system, the Department examined the effect of using the useful life determined appropriate by the U.S Internal Revenue Service for similar facilities as presented in IRS Tax Information Publication, Volume 3, Table of Class Life and Recovery Periods, Table B2 (1993). According to the IRS, the estimated useful life for pollution control assets used in the manufacture of pulp and paper is 13 years. A recalculation of the percent of the cost allocable to pollution control for this claim using a useful life factor of 13 years results in a return on investment of 2% and a percent allocable of 64% for this facility, a reduction in the value of the certifiable credit of approximately \$ 4,300,000. This example is indicative of the sensitivity of the return

on investment calculation to a facility's estimated useful life, a factor that is determined principally by the applicant.

Willamette indicates that because the IRS useful life factor is an average of useful lives of all pollution control and like equipment for the class, it does not accurately represent the useful life of the claimed facility and that, in fact, the claimed facility is less durable and receives heavier use than the average similar facility. This premise cannot be refuted by Department staff. An argument could also be made that the facility might be classified under an alternative IRS Class Life Category. In consequence, the staff report recommendation reflects the useful facility life parameter claimed by the applicant.

It should also be noted that the amount recommended for certification in the staff report differs from the adjusted facility cost identified in the external accounting review report. This is because of a reduction of \$56,529 for the present value of previously certified equipment identified in the staff report, which presents the correct certifiable amount.

Authority to Address the Issue

ORS 468.150 through 468.190 and OAR 340-16-005 through 340-16-050 (Pollution Control Facilities Tax Credit).

ORS 468.925 through 468.965 and OAR 340-17-010 through 340-17-055 (Reclaimed Plastic Product Tax Credit).

Alternatives and Evaluation

None.

Summary of Any Prior Public Input Opportunity

The Department does not solicit public comment on individual tax credit applications during the staff application review process. Opportunity for public comment exists during the Commission meeting when the applications are considered for action.

Conclusions

o The recommendations for action on the attached applications are consistent with statutory provisions and administrative rules related to the pollution control facilities and reclaimed plastic product tax credit programs.

o Proposed December 2, 1994 Pollution Control Tax Credit Totals: Certified				
<u>Certificates</u>	<u>Certified Costs*</u>	<u>Allocable Costs**</u>	<u>No.</u>	
Air Quality	\$ 1,941,657	\$ 1,941,657	11	
CFC	15,461	12,641	6	
Field Burning	56,365	36,116	2	
Hazardous Waste	0	0	0	
Noise	0	0	0	
Plastics	388,799	388,799	4	
SW - Recycling	24,004,261	24,004,261	2	
SW - Landfill	0	0	0	
Water Quality	685,699	685,699	2	
UST	<u>2,520,991</u>	2,286,683	<u>27</u>	
TOTALS	\$29,613,233	\$29,355,856	54	

o Calendar Year Totals Through October 21, 1994:

Certificates	Certified Costs*	Certified Allocable Costs**	No.
Air Quality	\$ 3,053,469	\$ 3,053,469	10
CFC	36,318	32,793	14
Field Burning	2,171,527	1,007,357	16
Noise	43,024	43,024	1
Hazardous Waste	1,014,378	1,014,378	2
Plastics	362,777	362,777	10
SW - Recycling	436,972	436,972	3
SW - Landfill	0	0	0
Water Quality	3,359,977	3,359,977	12
UST	1,417,353	1,257,188	<u>19</u>
TOTALS	\$11,895,795	\$10,567,935	87

*These amounts represent the total facility costs. To calculate the actual dollars that can be applied as credit, the total facility cost is multiplied by the determined percent allocable of which the net credit is 50 percent of that amount.

**These amounts represent the total eligible facility costs that are allocable to pollution control. To calculate the actual dollars that can be applied as credit, the certifiable allocable cost is multiplied by 50 percent.

Recommendation for Commission Action

It is recommended that the Commission approve certification for the tax credit applications as presented in Attachment A of the Department Staff Report. The Department also recommends that the actual cost of tax credit certificate 2295, Carmichael Columbia Oil, Inc., be reduced from \$27,572 to \$2,000 (98% allocable) to reflect that, except for an element of the claimed facility that was placed in use at a new site, 510 Marine Drive, the remainder of the previously approved facility has been removed from service.

Intended Followup Actions

Notify applicants of Environmental Quality Commission actions.

Attachments

A. Pollution Control Tax Credit Application Review Reports.

Reference Documents (available upon request)

- 1. ORS 468.150 through 468.190.
- 2. OAR 340-16-005 through 340-16-050.
- 3. ORS 468.925 through 468.965.
- 4. OAR 340-17-010 through 340-17-055.

Approved:

Section:

Division:

Report Prepared By: Charles Bianchi Phone: 229-6149 Date Prepared:November 15, 1994

Charles Bianchi DECEQC November 15, 1994

Application No.T-2900

State of Oregon Department of Environmental Quality

TAX RELIEF APPLICATION REVIEW REPORT

1. <u>Applicant</u>

A. E. Staley Manufacturing Company Stanfield Plant 2200 East Eldorado Street Decatur, IL 62525

The applicant owns and operates a cationic potato starch manufacturing plant in Stanfield, Oregon.

Application was made for tax credit for a water pollution control facility.

2. <u>Description of Facility</u>

The claimed facility consists of irrigation sprinklers, flowmeters, pumps, associated piping system, a tractor, hay bailer, rake, monitoring equipment and an irrigation field of 59 acres.

Claimed Facility Cost: \$206,568 (Accountant's Certification was provided).

3. <u>Procedural Requirements</u>

The facility is governed by ORS 468.150 through 468.190 and by OAR Chapter 340, Division 16.

The facility met the statutory deadline in that construction, of the facility was substantially completed on March 1, 1990 and the application for certification was filed on February 10, 1992, within 2 years of substantial completion of the facility. A revised cost of the claimed facility together with an accountant's certification was submitted on March 2, 1992.

4. Evaluation of Application

a. The facility is eligible because the sole purpose of the facility is to control a substantial quantity of water pollution. This control is accomplished by the use of treatment works for industrial waste as defined in ORS 468B.005.

Application No. T-2900 Page 2

A. E. Staley Manufacturing Company has been operating a potato starch processing plant since 1977. Process wastewater from the plant is being disposed of by irrigation unto a 7.4 acre field through a sprinkler irrigation system. A Waste Discharge Permit No. 3787 was issued by the Department for the operation of the treatment and disposal system.

In January 1990, the manufacturing plant was upgraded to include a high efficiency cationic starch processing facility. This upgrade resulted in an increased amount of wastewater. To accommodate the increased volume of process wastewater A. E. Staley upgraded its wastewater treatment and disposal system. The claimed facility allowed the company to stay within the limitations of the waste discharge permit. Wastewater is being irrigated at agronomic rates. The acreage purchased for this purpose has been determined to be appropriate to allow for land treatment of wastewater.

b. Eligible Cost Findings

In determining the percent of the pollution control facility cost allocable to pollution control, the following factors from ORS 468.190 have been considered and analyzed as indicated:

 The extent to which the facility is used to recover and convert waste products into a salable or usable commodity.

Hay is being harvested from the land irrigated with process wastewater. The crop is being sold to a farmer in the area.

2) The estimated annual percent return on the investment in the facility.

There is no return on investment for the claimed facility. The operation and maintenance costs exceed the revenue from the sale of hay.

3) The alternative methods, equipment and costs for achieving the same pollution control objective.

The alternative method evaluated is the treatment of wastewater at the City of Stanfield Wastewater Treatment Plant. The city's treatment plant does not have the capacity to treat the waste.

MW\WC12\WC12925.5

Application No. T-2900 Page 3

4) Any related savings or increase in costs which occur or may occur as a result of the installation of the facility.

There are no savings from the claimed facility. The net cost of maintaining and operating the facility is \$37,018 annually.

Average annual hay sales : \$4,241 Average annual operating expenses: (41,259)

Average annual net cost: (\$37,018)

5) Any other factors which are relevant in establishing the portion of the actual cost of the facility properly allocable to the prevention, control or reduction of air, water or noise pollution or solid or hazardous waste or to recycling or properly disposing of used oil.

There are no other factors to consider in establishing the actual cost of the facility properly allocable to prevention, control or reduction of pollution.

The actual cost of the facility properly allocable to pollution control as determined by using these factors is 100%.

5. <u>Summation</u>

- a. The facility was constructed in accordance with all regulatory deadlines.
- b. The facility is eligible for tax credit certification in that the sole purpose of the facility is to control a substantial quantity of water pollution and accomplishes this purpose by the disposal of industrial waste as defined in ORS 468B.005.
- c. The facility complies with DEQ statutes and rules.
- d. The portion of the facility cost that is properly allocable to pollution control is 100%.

MW\WC12\WC12925.5

Application No. T-2900 Page 4

6. <u>Director's Recommendation</u>

Based upon these findings, it is recommended that a Pollution Control Facility Certificate bearing the cost of \$206,568 with 100% allocated to pollution control, be issued for the facility claimed in Tax Credit Application No. T-2900.

Renato C. Dulay:crw MW\WC12\WC12925.5 (503) 229-5374 19 Sept 94

MW\WC12\WC12925.5

Application No. TC-4082

State of Oregon Department of Environmental Quality

RECLAIMED PLASTIC TAX CREDIT TAX RELIEF APPLICATION REVIEW REPORT

1. Applicant

Pacific Rim Trading 330 South State Street Lake Oswego, OR 97034

> The applicant operates a mail order replacement parts business for the printing industry. The applicant has some parts manufactured from reclaimed plastic using the applicant's molds.

Application was made for Reclaimed Plastic Tax Credit.

2. <u>Description of Equipment, Machinery or Personal Property</u>

The claimed equipment consisting of:

Plastic injection molds for replacement parts, roller end plugs, squeege support bearings, and 430 C\P roller frame gears.

The claimed facility investment costs: \$5,950

An invoices were provided.

3. <u>Procedural Requirements</u>

The investment is governed by ORS 468.925 through 468.965, and by OAR Chapter 340, Division 17.

The investment met all statutory deadlines in that:

- a. The request for preliminary certification was received on May 12, 1993. The preliminary application was filed complete and the 30 day waiting period was waived on May 12, 1993.
- b. The request for preliminary certification was approved on May 18, 1993.
- c. The investment was made on June 15, 1995 and March 23,

Page 2

1994.

d. The request for final certification was submitted on November 2, 1994 and was filed complete on November 2, 1994.

4. Evaluation of Application

- a. The investment is eligible because the equipment is necessary to process reclaimed plastic.
- b. Allocable Cost Findings

In determining the portion of the investment costs properly allocable to reclaiming and recycling plastic material, the following factors from ORS 468.960 have been considered and analyzed as indicated:

 The extent to which the claimed collection, transportation, processing or manufacturing process is used to convert reclaimed plastic into a salable or usable commodity.

This factor is applicable because the sole purpose of these molds is to manufacture a reclaimed plastic product. The recyclable plastic used by this facility is generated by persons other than the applicant.

 The alternative methods, equipment and costs for achieving the same objective.

The applicant investigated other alternatives and determined that this equipment is the most efficient and productive from an economic standpoint.

3) Any other factors which are relevant in establishing the portion of the actual cost of the investment properly allocable to the collection, transportation or processing of reclaimed plastic or to the manufacture of a reclaimed plastic product.

No other factors were considered relevant.

The actual cost of the investment properly allocable to processing reclaimed plastic as determined by using

Application No. TC-4082

Page 3

these factors is 100%.

5. <u>Summation</u>

- a. The investment was made in accordance with all regulatory deadlines.
- b. The investment is eligible for final tax credit certification in that the equipment is necessary to manufacture a reclaimed plastic product.
- c. The qualifying business complies with DEQ statutes and rules.
- d. The portion of the investment cost that is properly allocable to reclaiming and recycling plastic is 100%.

6. Director's Recommendation

Based upon these findings, it is recommended that a Reclaimed Plastic Tax Credit Certificate bearing the cost of \$5,950 with 100% allocated to reclaiming plastic material, be issued for the investment claimed in Tax Credit Application No. TC-4082.

WRB:wrb wp51\tax\tc4082rr.sta (503) 229-5934 October 31, 1994

Application No. TC-4119

State of Oregon Department of Environmental Quality

RECLAIMED PLASTIC TAX CREDIT TAX RELIEF APPLICATION REVIEW REPORT

1. <u>Applicant</u>

H. C. R. Inc. Hergert's Industries, Inc. 4052 State Hwy. 38 Drain, OR 97435

> The applicant manufactures molds for the plastic and rubber industries. The applicant is associated with Beaver State Plastics a company which manufactures plastic and rubber parts. Beaver State Plastics uses the molds manufactured by Hergert's Industries, Inc. to make a reclaimed plastic product.

Application was made for Reclaimed Plastic Tax Credit.

2. <u>Description of Equipment, Machinery or Personal Property</u>

The claimed equipment consisting of:

Plastic injection mold with two sets of cores used to produce 26" and 36" lids and bases for plastic compost bins.

The claimed facility investment costs: \$64,266

An invoice and accountant's review statement were provided.

3. <u>Procedural Requirements</u>

The investment is governed by ORS 468.925 through 468.965, and by OAR Chapter 340, Division 17.

The investment met all statutory deadlines in that:

- a. The request for preliminary certification was received on July 13, 1993. The preliminary application was filed complete and the 30 day waiting period was waived on July 27, 1993.
- b. The request for preliminary certification was approved on July 27, 1993.

Application No. TC-4119 Page 2

- c. The investment was made on August 19, 1993, prior to June 30, 1995.
- d. The request for final certification was submitted on October 13, 1994 and was filed complete on October 18, 1994.

4. <u>Evaluation of Application</u>

- a. The investment is eligible because the equipment is necessary to process reclaimed plastic.
- b. Allocable Cost Findings

In determining the portion of the investment costs properly allocable to reclaiming and recycling plastic material, the following factors from ORS 468.960 have been considered and analyzed as indicated:

1) The extent to which the claimed collection, transportation, processing or manufacturing process is used to convert reclaimed plastic into a salable or usable commodity.

This factor is applicable because the sole purpose of these molds is to manufacture a reclaimed plastic product. The recyclable plastic used by this facility is generated by persons other than the applicant.

2) The alternative methods, equipment and costs for achieving the same objective.

The applicant investigated other alternatives and determined that this equipment is the most efficient and productive from an economic standpoint.

3) Any other factors which are relevant in establishing the portion of the actual cost of the investment properly allocable to the collection, transportation or processing of reclaimed plastic or to the manufacture of a reclaimed plastic product.

No other factors were considered relevant.

The actual cost of the investment properly allocable to processing reclaimed plastic as determined by using

Application No. TC-4119 Page 3

these factors is 100%.

5. <u>Summation</u>

- a. The investment was made in accordance with all regulatory deadlines.
- b. The investment is eligible for final tax credit certification in that the equipment is necessary to manufacture a reclaimed plastic product.
- c. The qualifying business complies with DEQ statutes and rules.
- d. The portion of the investment cost that is properly allocable to reclaiming and recycling plastic is 100%.

6. <u>Director's Recommendation</u>

Based upon these findings, it is recommended that a Reclaimed Plastic Tax Credit Certificate bearing the cost of \$64,266 with 100% allocated to reclaiming plastic material, be issued for the investment claimed in Tax Credit Application No. TC-4119.

WRB:wrb wp51\tax\tc4119rr.sta (503) 229-5934 October 27, 1994

State of Oregon Department of Environmental Quality

TAX RELIEF APPLICATION REVIEW REPORT

1. <u>Applicant</u>

Hayden Saab Services, Inc. 390 Front St. N.E. Salem, OR 97301

The applicant owns and operates an automotive repair shop in Salem, Oregon.

Application was made for tax credit for an air pollution control facility which is leased by the applicant. Applicant has provided authorization from the lessor to receive tax credit certification.

2. <u>Description of Facility</u>

Facility is a machine which removes and cleans auto air conditioner coolant. The machine is self contained and includes pumps, tubing, valves and filters which rid the spent coolant of oil, excess air, water, acids and contaminant particles.

The applicant has identified the useful life of the equipment to be five years.

Claimed Facility Cost: \$3,995.95 (Costs have been documented)

3. <u>Procedural Requirements</u>

The facility is governed by ORS 468.150 through 468.190, and by OAR Chapter 340, Division 16.

Installation of the facility was substantially completed on November 1, 1993. The facility was placed into operation on November 1, 1993. The application for final certification was submitted to the Department on March 14, 1994. The application was found to be complete on October 25, 1994, within two years of substantial completion of the facility.

4. Evaluation of Application

a. The facility is eligible because the principal purpose of the facility is to comply with a requirement imposed by the Department, to reduce air pollution. This reduction is accomplished by capturing and/or recycling air contaminants, as defined in ORS 468.275. The requirement is to comply with ORS 468.612-621 and OAR 340-22-410 to 415.

Eligible equipment must be certified by Underwriters Laboratory (UL) as meeting the requirements and specifications of UL1963 and the Society of Automotive Engineers (SAE) standards, J1990 and J1991, or other requirements and specifications determined by the Department as being equivalent. The facility meets these requirements.

b. Eligible Cost Findings

In determining the percent of the facility cost allocable to pollution control, the following factors from ORS 468.190 have been considered and analyzed as indicated:

1) The extent to which the facility is used to recover and convert waste products into a salable or usable commodity.

The recovery and recycling machine serves two purposes. It prevents the release of spent auto A/C coolant to the environment, thereby meeting Department regulations requiring capture of this air contaminant. Second, it provides a means to recover and clean waste coolant for reuse as an auto A/C coolant.

2) The estimated annual percent return on the investment in the facility.

The percent return on investment from facility use was calculated using coolant cost and retrieval rate data from the applicant and generic cost of facility operations estimated by the Department.

Specifically, the applicant estimated the income to applicant from the sale of recycled coolant at \$26/pound. The applicant

estimated an annual coolant recovery rate of 20 pounds.

In estimating the operating costs for use of the recovery and recycling machine, the Department developed a standardized methodology which considers the following factors:

- Electricity consumption of machine
- Additional labor to operate machine
- Machine maintenance costs

Based on these considerations, the applicant estimated the return on investment to be less than zero, in that machine operating costs exceeded income from the use of the machine.

3) The alternative methods, equipment and costs for achieving the same pollution control objective.

The applicant has identified no alternatives.

 Any related savings or increase in costs which occur or may occur as a result of the installation of the facility.

There are savings from the facility to recover and reuse coolant. The applicant may use the recycled coolant in customer vehicles. In this case the savings are tied to the displaced cost of virgin coolant. Alternately, the applicant could sell the coolant to a second shop where the coolant is used. In this case the savings to the applicant are tied to the sales price of recycled coolant.

However, for this applicant increases in business operations and maintenance costs exceeded facility savings. These cost estimates are discussed in 2) above.

5) Any other factors which are relevant in establishing the portion of the actual cost of the facility properly allocable to the prevention, control or reduction of air, water or noise pollution or solid or hazardous waste or to recycling or properly disposing of used oil.

A distinct portion of this automobile air conditioning coolant recovery and recycling equipment makes an insignificant

Application No. TC-4221 Page #4

contribution to the principal purpose of the claimed facility. This coolant recovery equipment has the capability to return (recharge) coolant to automobile air conditioning systems. Recharge capabilities in coolant recovery and recycling equipment is not required by state or federal law. The additional expense incurred in the purchase of equipment with recharge capabilities is not allocable to pollution control. The Department estimates the additional expense incurred is \$700.00.

The actual cost of the facility properly allocable to pollution control as determined by using these factors is 82%.

- 5. Summation
 - a. The facility was constructed in accordance with all regulatory deadlines.
 - b. The facility is eligible for tax credit certification in that the principal purpose of the facility is to comply with a requirement imposed by the Department, to reduce air pollution.
 - c. The facility complies with DEQ statutes and rules.
 - d. The portion of the facility cost that is properly allocable to pollution control is 82%.

6. Director's Recommendation

Based upon these findings, it is recommended that a Pollution Control Facility Certificate bearing the cost of \$3,996.00 with 82% allocated to pollution control, be issued for the facility claimed in Tax Credit Application No. 4221.

Dennis E. Cartier SJO Consulting Engineers

October 28, 1994

State of Oregon Department of Environmental Quality

TAX RELIEF APPLICATION REVIEW REPORT

1. <u>Applicant</u>

Wayne E. Burger Fast Stop Gas P. O. Box 154 Sublimity, OR 97385

The applicant owns and operates a retail gas station at 104 NW Starr, Sublimity, OR, Facility No. 9754.

Application was made for a tax credit for a water pollution control facility involving underground storage tanks. The application included related air quality Stage II vapor recovery piping.

This applicant also received a 85% not to exceed \$85,000 essential services grant through DEQ's Underground Storage Tank Financial Assistance Program.

2. <u>Description of Claimed Facility</u>

The claimed pollution control facilities described in this application are two fiberglass tanks and doublewall fiberglass piping, spill containment basins, tank gauge system, overfill alarm, automatic shutoff valves, monitoring wells, sumps and Stage II vapor recovery piping.

Claimed facility cost (Accountant's certification was provided) \$33,351

The applicant submitted TC-4233 prior to the Department's determination of how to handle tax credit applications where an UST financial assistance grant was also received. On July 22, 1994 the Commission reviewed and approved a process for the consistant processing of such tax credit applications. The staff met with Mr. Wayne Burger on September 27,1994 and reviewed the adjustments necessary to his application as a result of applying the policy. Mr. Burger concurred with staff's proposed modifications.

Application No. TC-4233 Page 2

The Department has determined that the total project cost, including cleanup costs is \$108,587. The Department has further determined that the total cost of the tax credit eligible equipment is \$82,514 rather than \$33,351 as claimed by the applicant based on documentation on file with the Department under the UST Financial Assistance program. The Department has further determined that 24 percent of the total of \$82,514 is the actual cost to the applicant when adjustment is made for the essential services grant awarded the project under DEQ's UST financial assistance program (see Attachment A for details of calculation). Thus, the Department concludes that an adjusted claimed facility cost of \$19,803 is eligible to be claimed as a tax credit with a breakdown as follows:

	Claimed Facility Cost	Percent Adjustment	Adjusted Claimed Facility Cost
Fiberglass tanks and piping	\$22,648	24%	\$ 5,436
Spill containment basins	722	H	173
Tank gauge system	8,534	H · · · ·	2,048
Overfill alarm	434	lł.	104
Monitoring wells	2,000	H	480
Automatic shutoff devices	775	91	186
Sumps	2,140	91	514
Stage II vapor recovery	1,972	11	473
Labor & Materials	43,289	u	10,389
Total	\$82,514	24%	\$ 19,803

3. Procedural Requirements

The facility is governed by ORS 468.150 through 468.190, and by OAR Chapter 340, Division 16.

The facility was substantially completed on June 1, 1992 and placed into operation on June 1, 1992. The application for certification was submitted to the Department on May 2, 1994 and was considered to be complete and filed on May 10, 1994, within two years of the completion date of the project. The recommendation for approval was not submitted to the Commission until the grant reduction could be calculated on September 27, 1994, after final grant fund disbursement was made to the applicant.

4. Evaluation of Application

a. The facility is eligible because the principal purpose of the facility is to comply with underground storage tank requirements imposed by the federal Environmental Protection Agency to prevent pollution of soil, water and air. This is accomplished by preventing releases into soil, water or air. The facility qualifies as a "pollution control facility", defined in OAR 340-16-025(2)(g): "Installation or construction of facilities which will be used to detect, deter or prevent spills or unauthorized releases."

Prior to the installation of pollution control, the facility consisted of five steel tanks and piping with no corrosion protection and no spill and overfill prevention or leak detection equipment.

To respond to Air Quality regulations under OAR 340-22-400 - 403 and Underground Storage Tank requirements under OAR 340-Division 150, the applicant installed:

- 1) For corrosion protection Fiberglass tanks and piping.
- 2) For spill and overfill prevention Spill containment basins, overfill alarm, sumps and automatic shutoff valves.
- 3) For leak detection Tank gauge system and monitoring wells.
- 4) For VOC reduction Stage II vapor recovery piping.

Contamination found at the site was reported to DEQ. Cleanup has been completed.

Based on information currently available, the applicant is in compliance with all applicable DEQ regulations in that these tanks are permitted and fee payments are current.

The Department concludes that the costs claimed by the applicant (adjusted to \$19,803) are eligible pursuant to the definition of a pollution control facility in ORS 468.155.

b. Eligible Cost Findings

In determining the percent of the eligible pollution control facility cost allocable to pollution control, the following factors from ORS 468.190 have been considered and analyzed as indicated:

1) The extent to which the facility is used to recover and convert waste products into a salable or usable commodity.

The equipment does not recover or convert waste products into a salable or usable commodity.

2) The estimated annual percent return on the investment in the facility.

There is no annual percent return on investment as the applicant claims no gross annual income from the facility.

3) The alternative methods, equipment and costs for achieving the same pollution control objective.

The applicant did not indicate that any alternative methods were considered. The methods chosen are acceptable for meeting the requirements of federal regulations.

4) Any related savings or increase in costs which occur or may occur as a result of the installation of the facility.

The applicant claims no savings or increase in costs as a result of the installation.

5) Any other factors which are relevant in establishing the portion of the actual cost of the facility properly allocable to pollution control.

There are no other factors to consider in establishing the actual cost of the facility properly allocable to prevention, control of reduction of pollution.

The actual cost of the facility properly allocable to pollution control is determined by using these factors as displayed in the following table:

	Eligible Facility Cost	Percent Allocable	Amount Allocable
Corrosion Protection:		<u> </u>	
Fiberglass tanks & piping	\$ 5,436	38% (1)	\$ 2,066
Spill & Overfill Prevention:			
Spill containment basins	173	100	173
Overfill alarm	104	100	104
Automatic shutoff valves	186	100	186
Sumps	514	100	514
Leak Detection:			
Tank gauge system	2,048	90 (2)	1,843
Monitoring wells	480	100	480
Stage II vapor			
recovery piping	473	100	473
Labor and materials	10,389	100	10,389
	<u></u>		<u> </u>
Total	\$ 19,803	82%	\$ 16,228

- (1) The Department has determined the percent allocable on the cost of a corrosion protected tank and piping system by using a formula based on the difference in cost between the protected tank and piping system and an equivalent bare steel system as a percent of the protected system. Applying this formula to the costs presented by the applicant, where the protected system cost is \$22,648 and the bare steel system is \$14,136, the resulting portion of the eligible tank and piping cost allocable to pollution control is 38%.
- (2) The applicant's cost for a tank gauge system is reduced to 90% of cost based on a determination by the Department that this is the portion properly allocable to pollution control since the device can serve other purposes, for example, inventory control.

5. <u>Summation</u>

- a. The facility was constructed in accordance with all regulatory requirements.
- b. The facility is eligible for tax credit certification in that the principal purpose of the claimed facility is to comply with requirements imposed by the federal Environmental Protection Agency to prevent pollution of soil, water and air. This is accomplished by preventing releases in soil, water or air. The facility qualifies as a "pollution control facility" defined in OAR 340-16-025(2)(g): "Installation or construction of facilities which will be used to detect, deter or prevent spills or unauthorized releases."
- c. The facility complies with DEQ statutes and rules.
- d. The portion of the facility cost that is properly allocable to pollution control is 82%.

6. Director's Recommendation

Based upon these findings, it is recommended that a Pollution Control Facility Certificate bearing the cost of \$19,803 with 82% allocated to pollution control, be issued for the facility claimed in Tax Credit Application No. TC-4233.

Barbara J. Anderson (503) 229-5870 September 27, 1994

ATTACHMENT A.

TAX CREDIT/GRANT ADJUSTED FACILITY COST WORKSHEET APPLICATION NO. TC-4233

\$82,000

Wayne E. Burger Fast Stop Gas 104 NW Starr Sublimity, OR 97385 Facility No. 9754

A. TOTAL STATE GRANT AWARDED TO APPLICANT:

В.	PROJECT EQUIPMENT AND COSTS:	TOTAL PROJECT COSTS ELIGIBLE FOR GRANT	APPLICANT'S CLAIMED FACILITY COSTS ELIGIBLE FOR TAX CREDIT	ADJUSTED CLAIMED FACILITY COSTS (reduced by % in D.3. below)
	Fiberglass tanks & piping	\$22,648	\$22,648	\$5,436
	Spill containment basins	722	722	173
	Tank gauge system	8,534	8,534	2,048
	Overfill alarm	434	434	104
	Monitoring Wells	2,000	2,000	480
	Automatic shutoff devices	775	775	186
	Sumps	2,140	2,140	514
	Stage II vapor recovery piping	1,972	1,972	473
	Labor & materials	43,289	43,289	10,389
	Fuel pumps and misc.	5,000	0	0
	Contaminated soil & groundwater cleanup	21,073	0	0
C.	TOTAL PROJECT COST	\$108,587	\$82,514	\$19,803

D. CALCULATION OF APPLICANT'S ACTUAL EQUIPMENT COST:

1. Costs eligible for a tax credit		
as a percent of total project cost:	\$82,514 / 108,587 ==	76%
2. Portion of State grant applicable to		
costs eligible for tax credit;	\$82,000 x .76 =	\$62,320
3. Reduced equipment costs eligible for tax o	redit	
rounded to the nearest percent: (82,514-62,320)/82,514 =		24%
4. Applicant's actual equipment cost:	\$82,514 x .24 ==	\$19,803
E. APPLICANT'S ADJUSTED CLAIMED FACILITY COST:		\$19,803

Barbara J. Anderson (503) 229-5870 September 27, 1994

State of Oregon Department of Environmental Quality

TAX RELIEF APPLICATION REVIEW REPORT

1. Applicant

Stein Oil Company, Inc. 19805 McLoughlin Blvd. Gladstone, Oregon 97027

The applicant owns and operates Kelly Field Chevron, a gasoline sales and service station in Oregon City, Oregon.

Application was made for tax credit for an air pollution control facility.

2. <u>Description of Facility</u>

The claimed facility is an above ground stage II vapor recovery balance type system. The system is composed of Husky nozzles, Thermoid hoses, OPW adapters, OPW breakaway safety valves, piping and additional miscellaneous equipment. Installation of the facility prevents the escape of gasoline vapors into the atmosphere.

Claimed Facility Cost:

\$7,718.67

The applicant documented the facility costs.

3. Procedural Requirements

The facility is governed by ORS 468.150 through 468.190, and by OAR Chapter 340, Division 16.

The facility met all statutory deadlines in that:

Construction and installation of the facility was substantially completed on February 9, 1994. The facility was placed into operation on February 9, 1994. The application for final certification was submitted to the Department on May 23, 1994 within two years of substantial completion of the facility. The application was found to be complete on June 9, 1994.

Evaluation of Application

a. Rationale For Eligibility

The facility is eligible because the principal purpose of the facility is to comply with a requirement imposed by the Department to prevent the escape of gasoline vapors into the atmosphere. This is in accordance with OAR Chapter 340-22-400 to 403. The emission reduction is accomplished by the elimination of air contaminants as defined in ORS 468A.005.

The facility prevents gasoline vapors from escaping into the atmosphere. The face plate on the nozzle delivering the gasoline forms a tight seal on the fill pipe of the automobile gas tank. As the spout dispenses gasoline there is a small pressure increase created in the automobile gasoline tank due to the additional volume of the added fuel. This pressure increase drives the gasoline vapor from the automobile fuel tank through a secondary line in the nozzle back into the underground storage tank. The gasoline vapor travels through a secondary containment pipe surrounding the pipe the gasoline is dispensed through. The underground tank receives the additional volume in the form of gasoline vapors. There is no net pressure increase in the underground tank because the tank has already dispensed an equivalent volume of liquid gasoline. The vapor recovered is vapor that would otherwise escape from the automobile tank and the gasoline dispensing nozzle into the atmosphere.

b. Eligible Cost Findings

In determining the percent of the pollution control facility cost allocable to pollution control, the following factors from ORS 468.190 have been considered and analyzed as indicated:

1) The extent to which the facility is used to recover and convert waste products into a salable or usable commodity.

A portion of the waste product is converted into a salable or usable commodity consisting of recovered gasoline. It is the position of the Department that the volume of gasoline recovered is of an insignificant economic benefit.

2) The estimated annual percent return on the investment in the facility.

The applicant indicates in the application there is no income or savings from the facility, so there is no return on the investment.

3) The alternative methods, equipment and costs for achieving the same pollution control objective.

Stage II vapor recovery balance type systems are technically recognized as an acceptable method for controlling the emissions of vapors from gasoline service stations.

4.

4) Any related savings or increase in costs which occur or may occur as a result of the installation of the facility.

The applicant indicated there were no savings or increase in costs as a result of the facility modification.

5) Any other factors which are relevant in establishing the portion of the actual cost of the facility properly allocable to the prevention, control or reduction of air pollution.

There are no other factors to consider in establishing the actual cost of the facility properly allocable to reduction of pollution. The principal purpose of the facility is to prevent a substantial quantity of air pollution.

The actual cost of the facility properly allocable to pollution control as determined by using these factors is 100%.

5. <u>Summation</u>

- a. The facility was constructed in accordance with all regulatory deadlines.
- b. The facility is eligible for final tax credit certification in that the principal purpose of the facility is to comply with a requirement imposed by the Department to reduce air pollution.
- c. The facility complies with Department rules.
- d. The portion of the facility cost that is properly allocable to pollution control is 100%.

6. Director's Recommendation

Based upon these findings, it is recommended that a Pollution Control Facility Certificate bearing the cost of \$7,719 with 100% allocated to pollution control, be issued for the facility claimed in Tax Credit Application No. TC-4238.

Tonia C. Garbowsky: PRC Environmental Management, June 14, 1994

TAX RELIEF APPLICATION REVIEW REPORT

1. <u>Applicant</u>

Energy Systems NW 7421 S.E. Powell Blvd. Portland, OR 97206

The applicant owns and operates a commercial heating, air conditioning and refrigeration business in Portland, Oregon.

Application was made for tax credit for an air pollution control facility which is owned by the applicant. [If leased, add "Applicant has provided authorization from the lessor to receive tax credit certification."]

2. <u>Description of Facility</u>

Facility is a machine which removes air conditioner or commercial refrigerant coolant. The machine is self contained and includes pumps, tubing, and valves.

The applicant has identified the useful life of the equipment to be ten years.

Claimed Facility Cost: \$1,654.98 (Costs have been documented)

3. <u>Procedural Requirements</u>

The facility is governed by ORS 468.150 through 468.190, and by OAR Chapter 340, Division 16.

Installation of the facility was substantially completed on July 23, 1992. The facility was placed into operation on July 23, 1992. The application for final certification was submitted to the Department on May 31, 1994, within two years of substantial completion of the facility. The application was found to be complete on October 31, 1994.

4. Evaluation of Application

a. The facility is eligible because the principal purpose of the facility is to comply with a requirement imposed by the Environmental Protection Agency to reduce air pollution. This reduction is accomplished by capturing air contaminants, as defined in ORS 468.275. The requirement is to comply with Section 608 of the 1990 Clean Air Act Amendments. Section 608 prohibits the venting of a Class I or Class II ozone depleting substance in the course of maintaining, servicing, repairing, or disposing of an appliance or industrial process refrigeration.

The EPA has specified standards equipment manufactured before January 1, 1993 would have to meet to be grandfathered under the EPA's planned regulations. The standards require the equipment be capable of achieving a vacuum able to sustain either four or twentyfive inches of Mercury. High pressure equipment will need to sustain a four inch vacuum. Low pressure equipment will need to sustain a twenty-five inch vacuum. The claimed facility meets these standards.

b. Eligible Cost Findings

In determining the percent of the facility cost allocable to pollution control, the following factors from ORS 468.190 have been considered and analyzed as indicated:

1) The extent to which the facility is used to recover and convert waste products into a salable or usable commodity.

The recovery and recycling machine serves two purposes. It prevents the release of spent refrigerant to the environment, thereby meeting EPA regulations requiring capture of this air contaminant. Second, it provides a means to recover waste coolant for reuse or sale.

2) The estimated annual percent return on the investment in the facility.

The percent return on investment from facility use was calculated using coolant cost and retrieval rate data from the applicant and generic cost of facility operations estimated by the Department. Specifically, the applicant estimated the income to applicant from the sale of recycled coolant at \$4.30/pound. The applicant estimated an annual coolant recovery rate of 300 pounds.

In estimating the operating costs for use of the recovery, the Department developed a standardized methodology which considers the following factors:

- o Electricity consumption of machine
- o Additional labor to operate machine
- o Machine maintenance costs
- o Depreciation of machine

Based on these considerations, the applicant estimated the return on investment to be less than zero, in that machine operating costs exceeded income from the use of the machine.

3) The alternative methods, equipment and costs for achieving the same pollution control objective.

The capture of air conditioner and refrigerant coolant is an accepted method for preventing the emission of ozone depleting chemicals to the atmosphere.

4) Any related savings or increase in costs which occur or may occur as a result of the installation of the facility.

There are savings from the facility to recover and/or reuse coolant. The applicant may use the coolant in customer's equipment. In this case the savings are tied to the displaced cost of virgin coolant. Alternately, the applicant could sell the coolant to an industrial coolant purification center. In this case the savings to the applicant are tied to the sales price of recovered coolant.

However, for this applicant increases in business operations and maintenance costs exceed facility savings. These cost estimates are discussed in 2) above.

5) Any other factors which are relevant in establishing the portion of the actual cost of the facility properly allocable to the prevention, control or reduction of air, water or noise pollution or solid or hazardous waste or to recycling or properly disposing of used oil.

There are no other factors to consider in establishing the actual cost of the facility properly allocable to prevention, control or reduction of pollution.

The actual cost of the facility properly allocable to pollution control as determined by using these factors is 100%.

- 5. <u>Summation</u>
 - a. The facility was constructed in accordance with all regulatory deadlines.
 - b. The facility is eligible for tax credit certification in that the principal purpose of the facility is to comply with a requirement imposed by the EPA to reduce air pollution.
 - c. The facility complies with Department standards and rules.
 - d. The portion of the facility cost that is properly allocable to pollution control is 100%.

6. <u>Director's Recommendation</u>

Based upon these findings, it is recommended that a Pollution Control Facility Certificate bearing the cost of \$1,655.00 with 100% allocated to pollution control, be issued for the facility claimed in Tax Credit Application No. 4244.

Dennis E. Cartier SJO Consulting Engineers October 31, 1994

TAX RELIEF APPLICATION REVIEW REPORT

1. <u>Applicant</u>

Les & Terry's Chevron Service, Inc. 3131 South 6th Street Klamath Falls, OR 97603

The applicant owns and operates a retail gas station at 3131 South 6th Street, Klamath Falls, OR, Facility No. 751.

Application was made for a tax credit for a water pollution control facility involving underground storage tanks.

2. <u>Description of Claimed Facility</u>

The claimed pollution control facilities described in this application are three doublewall fiberglass tanks and doublewall flexible piping, spill containment basins, tank gauge system, overfill alarm, automatic shutoff valves, line leak detectors, and monitoring wells.

Claimed facility cost (Accountant's certification was provided)

3. <u>Procedural Requirements</u>

The facility is governed by ORS 468.150 through 468.190, and by OAR Chapter 340, Division 16.

\$147,989

Application No. TC-4246 Page 2

The facility was substantially completed on January 7, 1994 and placed into operation on January 7, 1994. The application for certification was submitted to the Department on June 3, 1994 was considered to be complete and filed on October 24, 1994, within two years of the completion date of the project.

4. Evaluation of Application

a. The facility is eligible because the principal purpose of the facility is to comply with underground storage tank requirements imposed by the federal Environmental Protection Agency to prevent pollution of soil and water. This is accomplished by preventing releases into soil and water. The facility qualifies as a "pollution control facility", defined in OAR 340-16-025(2)(g): "Installation or construction of facilities which will be used to detect, deter or prevent spills or unauthorized releases."

Prior to the installation of pollution control, the facility consisted of five steel tanks and piping with no corrosion protection and no spill and overfill prevention or leak detection equipment.

To respond to Underground Storage Tank requirements under OAR 340-Division 150, the applicant installed:

- 1) For corrosion protection Doublewall fiberglass tanks and doublewall flexible piping.
- 2) For spill and overfill prevention Spill containment basins, overfill alarm and automatic shutoff valves.
- 3) For leak detection Tank gauge system, line leak detectors and monitoring wells.

Based on information currently available, the applicant is in compliance with all applicable DEQ regulations in that these tanks are permitted and fee payments are current.

The Department concludes that the costs claimed by the applicant (\$147,989) are eligible pursuant to the definition of a pollution control facility in ORS 468.155.

b. Eligible Cost Findings

In determining the percent of the eligible pollution control facility cost allocable to pollution control, the following factors from ORS 468.190 have been considered and analyzed as indicated:

1) The extent to which the facility is used to recover and convert waste products into a salable or usable commodity.

The equipment does not recover or convert waste products into a salable or usable commodity.

2) The estimated annual percent return on the investment in the facility.

There is no annual percent return on investment as the applicant claims no gross annual income from the facility.

3) The alternative methods, equipment and costs for achieving the same pollution control objective.

The applicant did not indicate that alternatives were considered. The methods chosen are acceptable for meeting the requirements of federal regulations.

4) Any related savings or increase in costs which occur or may occur as a result of the installation of the facility.

The applicant claims no savings or increase in costs as a result of the installation.

5) Any other factors which are relevant in establishing the portion of the actual cost of the facility properly allocable to pollution control.

There are no other factors to consider in establishing the actual cost of the facility properly allocable to prevention, control of reduction of pollution.

The actual cost of the facility properly allocable to pollution control is determined by using these factors as displayed in the following table:

	Eligible Facility Cost	Percent Allocable	Amount Allocable
Corrosion Protection: Doublewall fiberglass	<u></u>		<u> </u>
tanks and piping	\$39,754	62% (1)	\$24,647
Spill & Overfill Prevention:			
Spill containment basins	1,092	100	1,092
Överfill Alarm	219	100	219
Automatic shutoff valves	138	100	138
Leak Detection:			
Tank gauge system	11,180	90 (2)	10,062
Line leak detectors	1,316	100	1,316
Monitoring wells	312	100	312
Labor and materials	93,978	100	93,978
Total	\$147,989	89%	\$131,764

- (1) The Department has determined the percent allocable on the cost of a corrosion protected tank and piping system by using a formula based on the difference in cost between the protected tank and piping system and an equivalent bare steel system as a percent of the protected system. Applying this formula to the costs presented by the applicant, where the protected system cost is \$39,754 and the bare steel system is \$15,034, the resulting portion of the eligible tank and piping cost allocable to pollution control is 62%.
- (2) The applicant's cost for a tank gauge system is reduced to 90% of cost based on a determination by the Department that this is the portion properly allocable to pollution control since the device can serve other purposes, for example, inventory control.

5. <u>Summation</u>

- a. The facility was constructed in accordance with all regulatory requirements.
- b. The facility is eligible for tax credit certification in that the principal purpose of the claimed facility is to comply with requirements imposed by the federal Environmental Protection Agency to prevent pollution of soil, water and air. This is accomplished by preventing releases in soil, water or air. The facility qualifies as a "pollution control facility" defined in OAR 340-16-025(2)(g): "Installation or construction of facilities which will be used to detect, deter or prevent spills or unauthorized releases."
- c. The facility complies with DEQ statutes and rules.
- d. The portion of the facility cost that is properly allocable to pollution control is 89%.

6. Director's Recommendation

Based upon these findings, it is recommended that a Pollution Control Facility Certificate bearing the cost of \$147,989 with 89% allocated to pollution control, be issued for the facility claimed in Tax Credit Application No. TC-4246.

Barbara J. Anderson (503) 229-5870 October 24, 1994

Application No. TC-4250

State of Oregon Department of Environmental Quality

TAX RELIEF APPLICATION REVIEW REPORT

1. <u>Applicant</u>

Jesse's Auto Service 22250 Willamette Dr. West Linn, OR 97068

The applicant owns and operates a gasoline service station and an automotive repair service in West Linn, Oregon.

Application was made for tax credit for an air pollution control facility which is owned by the applicant.

2. <u>Description of Facility</u>

Facility is a machine which removes and cleans auto air conditioner coolant. The machine is self contained and includes pumps, tubing, valves and filters which rid the spent coolant of oil, excess air, water, acids and contaminant particles.

The applicant has identified the useful life of the equipment to be three years.

Claimed Facility Cost: \$2,295 (Costs have been documented)

3. <u>Procedural Requirements</u>

The facility is governed by ORS 468.150 through 468.190, and by OAR Chapter 340, Division 16.

Installation of the facility was substantially completed on April 11, 1994. The facility was placed into operation on April 11, 1994. The application for final certification was submitted to the Department on June 22, 1994. The application was found to be complete on October 25, 1994, within two years of substantial completion of the facility.

4. Evaluation of Application

a. The facility is eligible because the principal purpose of the facility is to comply with a requirement imposed by the Department, to reduce air pollution. This reduction is accomplished by capturing and/or recycling air contaminants, as defined in ORS 468.275. The requirement is to comply with ORS 468.612-621 and OAR 340-22-410 to 415.

Eligible equipment must be certified by Underwriters Laboratory (UL) as meeting the requirements and specifications of UL1963 and the Society of Automotive Engineers (SAE) standards, J1990 and J1991, or other requirements and specifications determined by the Department as being equivalent. The facility meets these requirements.

b. Eligible Cost Findings

In determining the percent of the facility cost allocable to pollution control, the following factors from ORS 468.190 have been considered and analyzed as indicated:

 The extent to which the facility is used to recover and convert waste products into a salable or usable commodity.

The recovery and recycling machine serves two purposes. It prevents the release of spent auto A/C coolant to the environment, thereby meeting Department regulations requiring capture of this air contaminant. Second, it provides a means to recover and clean waste coolant for reuse as an auto A/C coolant.

2) The estimated annual percent return on the investment in the facility.

The percent return on investment from facility use was calculated using coolant cost and retrieval rate data from the applicant and generic cost of facility operations estimated by the Department. Specifically, the applicant estimated the income to applicant from the sale of recycled coolant at \$10.50/pound. The applicant estimated an annual coolant recovery rate of 60 pounds.

In estimating the operating costs for use of the recovery and recycling machine, the Department developed a standardized methodology which considers the following factors:

- Electricity consumption of machine
- Additional labor to operate machine
- Machine maintenance costs

Based on these considerations, the applicant estimated the return on investment to be less than zero, in that machine operating costs exceeded income from the use of the machine.

3) The alternative methods, equipment and costs for achieving the same pollution control objective.

The applicant has identified no alternatives.

 Any related savings or increase in costs which occur or may occur as a result of the installation of the facility.

There are savings from the facility to recover and reuse coolant. The applicant may use the recycled coolant in customer vehicles. In this case the savings are tied to the displaced cost of virgin coolant. Alternately, the applicant could sell the coolant to a second shop where the coolant is used. In this case the savings to the applicant are tied to the sales price of recycled coolant.

However, for this applicant increases in business operations and maintenance costs exceeded facility savings. These cost estimates are discussed in 2) above. 5) Any other factors which are relevant in establishing the portion of the actual cost of the facility properly allocable to the prevention, control or reduction of air, water or noise pollution or solid or hazardous waste or to recycling or properly disposing of used oil.

There are no other factors to consider in establishing the actual cost of the facility properly allocable to prevention, control or reduction of pollution.

The actual cost of the facility properly allocable to pollution control as determined by using these factors is 100%.

- 5. <u>Summation</u>
 - a. The facility was constructed in accordance with all regulatory deadlines.
 - b. The facility is eligible for tax credit certification in that the principal purpose of the facility is to comply with a requirement imposed by the Department to reduce air pollution.
 - c. The facility complies with DEQ statutes and rules.
 - d. The portion of the facility cost that is properly allocable to pollution control is 100%.

6. Director's Recommendation

Based upon these findings, it is recommended that a Pollution Control Facility Certificate bearing the cost of \$2,295 with 100% allocated to pollution control, be issued for the facility claimed in Tax Credit Application No. 4250.

Dennis E. Cartier SJO Consulting Engineers

October 25, 1994

TAX RELIEF APPLICATION REVIEW REPORT

1. <u>Applicant</u>

Radio Cab Company 1613 NW Kearny Portland, OR 97209

The applicant owns and operates a fueling station for company vehicles at 1613 NW Kearny, Portland, OR, Facility No. 5173.

Application was made for a tax credit for a water pollution control facility involving underground storage tanks. The application also included related air quality Stage I vapor recovery and Stage II vapor recovery equipment.

2. <u>Description of Claimed Facility</u>

The claimed pollution control facilities described in this application are one twocompartment doublewall STI-P3 tank and doublewall fiberglass piping, spill containment basins, tank gauge system, automatic shutoff valves, line leak detectors, monitoring wells, sumps and Stage I and II vapor recovery equipment.

Claimed facility cost (Accountant's certification was provided) \$146,140

3. <u>Procedural Requirements</u>

The facility is governed by ORS 468.150 through 468.190, and by OAR Chapter 340, Division 16.

The facility was substantially completed on September 29, 1992 and placed into operation on September 29, 1992. The application for certification was submitted to the Department on July 22, 1994 and was considered to be complete and filed on September 5, 1994, within two years of the completion date of the project.

4. <u>Evaluation of Application</u>

a. The facility is eligible because the principal purpose of the facility is to comply with underground storage tank requirements imposed by the federal Environmental Protection Agency to prevent pollution of soil, water and air. This is accomplished by preventing releases into soil, water or air. The facility qualifies as a "pollution control facility", defined in OAR 340-16-025(2)(g): "Installation or construction of facilities which will be used to detect, deter or prevent spills or unauthorized releases."

Prior to the installation of pollution control, the facility consisted of three steel tanks and piping with no corrosion protection and no spill and overfill prevention or leak detection equipment. One tank was decommissioned as part of the project. The applicant plans to decommission the two remaining unprotected tank systems in the future.

To respond to Air Quality regulations under OAR 340-22-400 - 403 and Underground Storage Tank requirements under OAR 340-Division 150, the applicant installed:

- 1) For corrosion protection Doublewall STI-P3 tanks and fiberglass piping.
- 2) For spill and overfill prevention Spill containment basins, sumps and automatic shutoff valves.
- 3) For leak detection Tank gauge system, line leak detectors and monitoring wells.
- 4) For VOC reduction Stage I and II vapor recovery piping, hoses & nozzles on 3 dispensers.

Based on information currently available, the applicant is in compliance with all applicable DEQ regulations in that these tanks are permitted and fee payments are current. The facility is also in compliance with Stage II vapor recovery rules.

The Department concludes that the costs claimed by the applicant (\$146,140) are eligible pursuant to the definition of a pollution control facility in ORS 468.155.

b. Eligible Cost Findings

In determining the percent of the eligible pollution control facility cost allocable to pollution control, the following factors from ORS 468.190 have been considered and analyzed as indicated:

1) The extent to which the facility is used to recover and convert waste products into a salable or usable commodity.

The equipment does not recover or convert waste products into a salable or usable commodity.

2) The estimated annual percent return on the investment in the facility.

There is no annual percent return on investment as the applicant claims no gross annual income from the facility.

3) The alternative methods, equipment and costs for achieving the same pollution control objective.

The applicant did not indicate that alternatives were considered. The methods chosen are acceptable for meeting the requirements of federal regulations.

4) Any related savings or increase in costs which occur or may occur as a result of the installation of the facility.

The applicant claims no savings or increase in costs as a result of the installation.

5) Any other factors which are relevant in establishing the portion of the actual cost of the facility properly allocable to pollution control.

There are no other factors to consider in establishing the actual cost of the facility properly allocable to prevention, control of reduction of pollution.

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The actual cost of the facility properly allocable to pollution control is determined by using these factors as displayed in the following table:

	Eligible Facility Cost	Percent Allocable	Amount Allocable
Corrosion Protection:		<u> </u>	
Doublewall fiberglass			
tanks and piping	\$24,180	68% (1)	\$16,442
Spill & Overfill Prevention			
Spill containment basins	386	100	386
Sumps	790	100	790
Automatic shutoff valves	1,250	100	1,250
Leak Detection:			
Tank gauge system	5,739	90 (2)	5,165
Line leak detectors	553	100	553
Monitoring wells	270	100	270
Stage I & II vapor recovery			
(incl. 6 hozes and nozzles			
on 3 dispensers)	2,606	100	2,606
Labor and materials	110,366	100	110,366
		<u> </u>	<u></u>
Total	\$146,140	94%	\$137,828

- (1) The Department has determined the percent allocable on the cost of a corrosion protected tank and piping system by using a formula based on the difference in cost between the protected tank and piping system and an equivalent bare steel system as a percent of the protected system. Applying this formula to the costs presented by the applicant, where the protected system cost is \$24,180 and the bare steel system is \$7,755, the resulting portion of the eligible tank and piping cost allocable to pollution control is 68%.
- (2) The applicant's cost for a tank gauge system is reduced to 90% of cost based on a determination by the Department that this is the portion properly allocable to pollution control since the device can serve other purposes, for example, inventory control.

5. <u>Summation</u>

- a. The facility was constructed in accordance with all regulatory requirements.
- b. The facility is eligible for tax credit certification in that the principal purpose of the claimed facility is to comply with requirements imposed by the federal Environmental Protection Agency to prevent pollution of soil, water and air. This is accomplished by preventing releases in soil, water or air. The facility qualifies as a "pollution control facility" defined in OAR 340-16-025(2)(g): "Installation or construction of facilities which will be used to detect, deter or prevent spills or unauthorized releases."
- c. The facility complies with DEQ statutes and rules.
- d. The portion of the facility cost that is properly allocable to pollution control is 94%.

6. Director's Recommendation

Based upon these findings, it is recommended that a Pollution Control Facility Certificate bearing the cost of \$146,140 with 94% allocated to pollution control, be issued for the facility claimed in Tax Credit Application No. TC-4256.

Barbara J. Anderson (503) 229-5870 October 24, 1994

TAX RELIEF APPLICATION REVIEW REPORT

1. <u>Applicant</u>

Stein Oil Co., Inc. 19805 McLoughlin Blvd. Gladstone, OR 97027

The applicant owns and operates a retail gas station at 1590 Willamette Falls Dr., West Linn, OR, Facility No. 8565

Application was made for a tax credit for a water pollution control facility involving underground storage tanks. The application also included related air quality Stage II vapor recovery equipment.

2. <u>Description of Claimed Facility</u>

The claimed pollution control facilities described in this application are doublewall fiberglass piping, spill containment basins, line leak detectors and Stage II vapor recovery equipment.

Claimed facility cost (Accountant's certification was provided) \$69,131

3. <u>Procedural Requirements</u>

The facility is governed by ORS 468.150 through 468.190, and by OAR Chapter 340, Division 16.

Application No. TC-4257 Page 2

The facility was substantially completed on April 1, 1994 and placed into operation on April 1, 1994. The application for certification was submitted to the Department on July 26, 1994 was considered to be complete and filed on October 24, 1994, within two years of the completion date of the project.

4. Evaluation of Application

a. The facility is eligible because the principal purpose of the facility is to comply with underground storage tank requirements imposed by the federal Environmental Protection Agency to prevent pollution of soil, water and air. This is accomplished by preventing releases into soil, water or air. The facility qualifies as a "pollution control facility", defined in OAR 340-16-025(2)(g): "Installation or construction of facilities which will be used to detect, deter or prevent spills or unauthorized releases."

Prior to the installation of pollution control, the facility consisted of four steel tanks and piping with no corrosion protection and no spill and overfill prevention or leak detection equipment. One tank was decommissioned as part of the project.

To respond to Air Quality regulations under OAR 340-22-400 - 403 and Underground Storage Tank requirements under OAR 340-Division 150, the applicant installed:

- 1) For corrosion protection Doublewall fiberglass piping.
- 2) For spill and overfill prevention Spill containment basins.
- 3) For leak detection Line leak detectors.
- 4) For VOC reduction Stage II vapor recovery piping, hoses & nozzles on four dispensers.

Based on information currently available, the applicant is in compliance with all applicable DEQ regulations in that these tanks are permitted and fee payments are current. The facility is also in compliance with Stage II vapor recovery rules.

The Department concludes that the costs claimed by the applicant (\$69,131) are eligible pursuant to the definition of a pollution control facility in ORS 468.155.

b. Eligible Cost Findings

In determining the percent of the eligible pollution control facility cost allocable to pollution control, the following factors from ORS 468.190 have been considered and analyzed as indicated:

1) The extent to which the facility is used to recover and convert waste products into a salable or usable commodity.

The equipment does not recover or convert waste products into a salable or usable commodity.

2) The estimated annual percent return on the investment in the facility.

There is no annual percent return on investment as the applicant claims no gross annual income from the facility.

3) The alternative methods, equipment and costs for achieving the same pollution control objective.

The applicant did not find any alternatives to consider. The methods chosen are acceptable for meeting the requirements of federal regulations.

4) Any related savings or increase in costs which occur or may occur as a result of the installation of the facility.

The applicant claims no savings or increase in costs as a result of the installation.

5) Any other factors which are relevant in establishing the portion of the actual cost of the facility properly allocable to pollution control.

There are no other factors to consider in establishing the actual cost of the facility properly allocable to prevention, control of reduction of pollution.

The actual cost of the facility properly allocable to pollution control is determined by using these factors as displayed in the following table:

Application No. TC-4257 Page 4

	Eligible Facility Cost	Percent Allocable	Amount Allocable
Corrosion Protection: Doublewall fiberglass piping	\$1,532	76% (1)	\$1,164
Spill & Overfill Prevention: Spill containment basins	145	100	145
Leak Detection: Line leak detectors	1,026	100	1,026
Stage II vapor recovery (incl. 8 hozes and nozzles on 4 dispensers)	7,230	100	7,230
Labor and materials	59,198	100	59,198
Total	\$69,131	99%	\$68,763

(1) The Department has determined the percent allocable on the cost of a corrosion protected piping system by using a formula based on the difference in cost between the protected piping system and an equivalent bare steel system as a percent of the protected system. Applying this formula to the costs presented by the applicant, where the protected system cost is \$1,532 and the bare steel system is \$369, the resulting portion of the eligible piping cost allocable to pollution control is 76%.

5. <u>Summation</u>

- a. The facility was constructed in accordance with all regulatory requirements.
- b. The facility is eligible for tax credit certification in that the principal purpose of the claimed facility is to comply with requirements imposed by the federal Environmental Protection Agency to prevent pollution of soil, water and air. This is accomplished by preventing releases in soil, water or air. The facility qualifies as a "pollution control facility" defined in OAR 340-16-025(2)(g): "Installation or construction of facilities which will be used to detect, deter or prevent spills or unauthorized releases."

- c. The facility complies with DEQ statutes and rules.
- d. The portion of the facility cost that is properly allocable to pollution control is 99%.
- 6. Director's Recommendation

Based upon these findings, it is recommended that a Pollution Control Facility Certificate bearing the cost of \$69,131 with 99% allocated to pollution control, be issued for the facility claimed in Tax Credit Application No. TC-4257.

Barbara J. Anderson (503) 229-5870 October 24, 1994

TAX RELIEF APPLICATION REVIEW REPORT

1. Applicant

Stein Oil Co., Inc. 19805 McLoughlin Blvd. Gladstone, OR 97027

The applicant owns and operates a retail gas station at 262 1st St., Canby, OR, Facility No. 7963

Application was made for a tax credit for a water pollution control facility involving underground storage tanks. The application also included related air quality Stage I vapor recovery and Stage II vapor recovery equipment.

2. <u>Description of Claimed Facility</u>

The claimed pollution control facilities described in this application are three doublewall fiberglass tanks and piping (one tank has two compartments), spill containment basins, underground preparation for tank gauge system, automatic shutoff valves, line leak detectors, turbine leak detectors, monitoring wells, sumps and Stage I and II vapor recovery equipment.

Claimed facility cost (Accountant's certification was provided) \$117,388

3. <u>Procedural Requirements</u>

The facility is governed by ORS 468.150 through 468.190, and by OAR Chapter 340, Division 16.

The facility was substantially completed on April 1, 1994 and placed into operation on April 1, 1994. The application for certification was submitted to the Department on July 26, 1994 was considered to be complete and filed on October 24, 1994, within two years of the completion date of the project.

4. Evaluation of Application

a. The facility is eligible because the principal purpose of the facility is to comply with underground storage tank requirements imposed by the federal Environmental Protection Agency to prevent pollution of soil, water and air. This is accomplished by preventing releases into soil, water or air. The facility qualifies as a "pollution control facility", defined in OAR 340-16-025(2)(g): "Installation or construction of facilities which will be used to detect, deter or prevent spills or unauthorized releases."

Prior to the installation of pollution control, the facility consisted of six steel tanks and piping with no corrosion protection and no spill and overfill prevention or leak detection equipment.

To respond to Air Quality regulations under OAR 340-22-400 - 403 and Underground Storage Tank requirements under OAR 340-Division 150, the applicant installed:

- 1) For corrosion protection Doublewall fiberglass tanks and piping.
- 2) For spill and overfill prevention Spill containment basins, sumps and automatic shutoff valves.
- 3) For leak detection Underground preparation for tank gauge system, line leak detectors, turbine leak detectors and monitoring wells.
- 4) For VOC reduction Stage I and II vapor recovery piping, hoses & nozzles on five dispensers.

Based on information currently available, the applicant is in compliance with all applicable DEQ regulations in that these tanks are permitted and fee payments are current. The facility is also in compliance with Stage II vapor recovery rules.

The Department concludes that the costs claimed by the applicant (\$117,388) are eligible pursuant to the definition of a pollution control facility in ORS 468.155.

b. Eligible Cost Findings

In determining the percent of the eligible pollution control facility cost allocable to pollution control, the following factors from ORS 468.190 have been considered and analyzed as indicated:

1) The extent to which the facility is used to recover and convert waste products into a salable or usable commodity.

The equipment does not recover or convert waste products into a salable or usable commodity.

2) The estimated annual percent return on the investment in the facility.

There is no annual percent return on investment as the applicant claims no gross annual income from the facility.

3) The alternative methods, equipment and costs for achieving the same pollution control objective.

The applicant did not indicate that alternatives were considered. The methods chosen are acceptable for meeting the requirements of federal regulations.

4) Any related savings or increase in costs which occur or may occur as a result of the installation of the facility.

The applicant claims no savings or increase in costs as a result of the installation.

5) Any other factors which are relevant in establishing the portion of the actual cost of the facility properly allocable to pollution control.

There are no other factors to consider in establishing the actual cost of the facility properly allocable to prevention, control of reduction of pollution.

The actual cost of the facility properly allocable to pollution control is determined by using these factors as displayed in the following table:

Application No. TC-4258 Page 4

	Eligible Facility Cost	Percent Allocable	Amount Allocable
Corrosion Protection: Doublewall fiberglass tanks and piping	\$27,140	52% (1)	\$14,113
units and piping	Ψ27,140	5270 (1)	Ψ ι ,110
Spill & Overfill Prevention:		· .	
Spill containment basins	1,325	100	1,325
Automatic shutoff valves	Included with labor & materials		
Sumps	2,160	100	2,160
Leak Detection: Underground preparation for tank gauge system Turbine leak detectors Line leak detectors Monitoring wells	873 291	ith labor & n 100 100 ith labor & n	873 291
Stage I & II vapor recovery (incl. 24 hozes and nozzle on 5 dispensers)		100	4,802
on o ansponsoroj	1,002	*00	1,002
Labor and materials	80,797	100	80,797
Total	\$117,388	89%	\$104,361

(1) The Department has determined the percent allocable on the cost of a corrosion protected tank and piping system by using a formula based on the difference in cost between the protected tank and piping system and an equivalent bare steel system as a percent of the protected system. Applying this formula to the costs presented by the applicant, where the protected system cost is \$27,140 and the bare steel system is \$13,041, the resulting portion of the eligible tank and piping cost allocable to pollution control is 52%.

5. <u>Summation</u>

- a. The facility was constructed in accordance with all regulatory requirements.
- b. The facility is eligible for tax credit certification in that the principal purpose of the claimed facility is to comply with requirements imposed by the federal Environmental Protection Agency to prevent pollution of soil, water and air. This is accomplished by preventing releases in soil, water or air. The facility qualifies as a "pollution control facility" defined in OAR 340-16-025(2)(g): "Installation or construction of facilities which will be used to detect, deter or prevent spills or unauthorized releases."
- c. The facility complies with DEQ statutes and rules.
- d. The portion of the facility cost that is properly allocable to pollution control is 89%.
- 6. Director's Recommendation

Based upon these findings, it is recommended that a Pollution Control Facility Certificate bearing the cost of \$117,388 with 89% allocated to pollution control, be issued for the facility claimed in Tax Credit Application No. TC-4258.

Barbara J. Anderson (503) 229-5870 October 24, 1994

TAX RELIEF APPLICATION REVIEW REPORT

1. <u>Applicant</u>

John's Automotive Service 14723 S.E. 82nd Dr. Clackamas, OR 97015

The applicant owns and operates an automotive repair shop in Clackamas, Oregon.

Application was made for tax credit for an air pollution control facility which is owned by the applicant.

2. <u>Description of Facility</u>

Facility is a machine which removes and cleans auto air conditioner coolant. The machine is self contained and includes pumps, tubing, valves and filters which rid the spent coolant of oil, excess air, water, acids and contaminant particles.

The applicant has identified the useful life of the equipment to be three years.

Claimed Facility Cost: \$3,525 (Costs have been documented)

3. Procedural Requirements

The facility is governed by ORS 468.150 through 468.190, and by OAR Chapter 340, Division 16.

Installation of the facility was substantially completed on June 23, 1994. The facility was placed into operation on June 23, 1994. The application for final certification was submitted to the Department on July 27, 1994. The application was found to be complete on October 25, 1994, within two years of substantial completion of the facility.

4. Evaluation of Application

a. The facility is eligible because the principal purpose of the facility is to comply with a requirement imposed by the Department, to reduce air pollution. This reduction is accomplished by capturing and/or recycling air contaminants, as defined in ORS 468.275. The requirement is to comply with ORS 468.612-621 and OAR 340-22-410 to 415.

Eligible equipment must be certified by Underwriters Laboratory (UL) as meeting the requirements and specifications of UL1963 and the Society of Automotive Engineers (SAE) standards, J1990 and J1991, or other requirements and specifications determined by the Department as being equivalent. The facility meets these requirements.

b. Eligible Cost Findings

In determining the percent of the facility cost allocable to pollution control, the following factors from ORS 468.190 have been considered and analyzed as indicated:

1) The extent to which the facility is used to recover and convert waste products into a salable or usable commodity.

The recovery and recycling machine serves two purposes. It prevents the release of spent auto A/C coolant to the environment, thereby meeting Department regulations requiring capture of this air contaminant. Second, it provides a means to recover and clean waste coolant for reuse as an auto A/C coolant.

2) The estimated annual percent return on the investment in the facility.

The percent return on investment from facility use was calculated using coolant cost and retrieval rate data from the applicant and generic cost of facility operations estimated by the Department.

Application No. TC-4259 Page #3

Specifically, the applicant estimated the income to applicant from the sale of recycled coolant at \$12.00/pound. The applicant estimated an annual coolant recovery rate of 60 pounds.

In estimating the operating costs for use of the recovery and recycling machine, the Department developed a standardized methodology which considers the following factors:

- Electricity consumption of machine
- Additional labor to operate machine
- Machine maintenance costs

Based on these considerations, the applicant estimated the return on investment to be less than zero, in that machine operating costs exceeded income from the use of the machine.

3) The alternative methods, equipment and costs for achieving the same pollution control objective.

The applicant has identified no alternatives.

 Any related savings or increase in costs which occur or may occur as a result of the installation of the facility.

There are savings from the facility to recover and reuse coolant. The applicant may use the recycled coolant in customer vehicles. In this case the savings are tied to the displaced cost of virgin coolant. Alternately, the applicant could sell the coolant to a second shop where the coolant is used. In this case the savings to the applicant are tied to the sales price of recycled coolant.

However, for this applicant increases in business operations and maintenance costs exceeded facility savings. These cost estimates are discussed in 2) above.

5) Any other factors which are relevant in establishing the portion of the actual cost of the facility properly allocable to the prevention, control or reduction of air, water or noise pollution or solid or hazardous waste or to recycling or properly disposing of used oil.

Application No. TC-4259 Page #4

A distinct portion of this automobile air conditioning coolant recovery and recycling equipment makes an insignificant contribution to the principal purpose of the claimed facility. This coolant recovery equipment has the capability to return (recharge) coolant to automobile air conditioning systems. Recharge capabilities in coolant recovery and recycling equipment is not required by state or federal law. The additional expense incurred in the purchase of equipment with recharge capabilities is not allocable to pollution control. The Department estimates the additional expense incurred is \$700.00.

The actual cost of the facility properly allocable to pollution control as determined by using these factors is 80%.

- 5. <u>Summation</u>
 - a. The facility was constructed in accordance with all regulatory deadlines.
 - b. The facility is eligible for tax credit certification in that the principal purpose of the facility is to comply with a requirement imposed by the Department, to reduce air pollution.
 - c. The facility complies with DEQ statutes and rules.
 - d. The portion of the facility cost that is properly allocable to pollution control is 80%.
- 6. Director's Recommendation

Based upon these findings, it is recommended that a Pollution Control Facility Certificate bearing the cost of \$3,525 with 80% allocated to pollution control, be issued for the facility claimed in Tax Credit Application No. 4259.

Dennis E. Cartier SJO Consulting Engineers

October 31, 1994

TAX RELIEF APPLICATION REVIEW REPORT

1. <u>Applicant</u>

Truax Harris Energy Co. P O Box 607 Wilsonville, OR 97070

The applicant owns and operates a commercial cardlock fueling station at 15055 SW 72nd Ave., Tigard, OR, Facility No. 10981.

Application was made for a tax credit for a water pollution control facility involving underground storage tanks. The application also included related air quality Stage I vapor recovery and Stage II vapor recovery equipment.

2. <u>Description of Claimed Facility</u>

The claimed pollution control facilities described in this application are four doublewall fiberglass tanks and flexible doublewall piping, spill containment basins, tank gauge system, overfill alarm, turbine leak detectors, monitoring wells, sumps, oil/water separator and Stage I and II vapor recovery equipment.

Claimed facility cost (Accountant's certification was provided) \$242,147

Application No. TC-4262 Page 2

The Department concludes that the eligible facility cost for the project is \$160,826. This represents a difference of \$81,321 from the applicant's claimed cost of \$242,147 due to the decision by the Department that the facility is a new installation (no tanks have ever existed at the location) and is not a replacement for another facility 1/2 mile away (16650 SW 72nd) because the move from that facility was caused by a business decision rather than pollution control. Thus, costs to decommission tanks at the other location (\$15,281) and labor and materials to install tanks and piping at the new location (\$66,040) are not eligible for a tax credit pursuant to the definition of a pollution control facility in ORS 468.155.

The applicant disagrees with the Department in this conclusion. They believe the claimed facility should be considered a replacement for the other facility and include all decommissioning and labor costs and the tax credit determination should be made using the full claimed facility cost of \$242,147. They give their reasons for the move as follows (vebatim):

1) The landlord was strongly concerned about having a cardlock facility located on their property with the associated pollution regulations.

2) The cost to upgrade the existing facility to meet the environmental regulations was excessive considering the size of the facility.

3) The length of the remaining term provided in the existing lease, approximately two years.

4) Our belief that this site would be classified as a replacement site by the Department of Environmental Quality for the tax credit program.

To provide additional information relevant to this issue, the Department calculated the amount and percent allocable based on the applicant's full facility cost claim. A decision in favor of the applicant's argument, taking into account two prior tax credits related to the other facility that would require a slight adjustment to the applicant's claimed cost, would result in a tax credit of \$231,922 with 92% allocated to pollution control.

3. <u>Procedural Requirements</u>

The facility is governed by ORS 468.150 through 468.190, and by OAR Chapter 340, Division 16.

The facility was substantially completed on October 1, 1992 and placed into operation on October 1, 1992. The application for certification was submitted to the Department on August 1, 1994 was considered to be complete and filed on September 28, 1994, within two years of the completion date of the project.

4. Evaluation of Application

a. The facility is eligible because the principal purpose of the facility is to comply with underground storage tank requirements imposed by the federal Environmental Protection Agency to prevent pollution of soil, water and air. This is accomplished by preventing releases into soil, water or air. The facility qualifies as a "pollution control facility", defined in OAR 340-16-025(2)(g): "Installation or construction of facilities which will be used to detect, deter or prevent spills or unauthorized releases."

Prior to the installation of pollution control the location had never held a motor fuel storage facility.

To respond to Air Quality regulations under OAR 340-22-400 - 403 and Underground Storage Tank requirements under OAR 340-Division 150, the applicant installed:

- 1) For corrosion protection Doublewall fiberglass tanks and flexible doublewall piping.
- 2) For spill and overfill prevention Spill containment basins, sumps, overfill alarm and oil/water separator.
- 3) For leak detection Tank gauge system, monitoring wells and turbine leak detectors.
- 4) For VOC reduction Stage I and II vapor recovery piping, hoses & nozzles on 5 dispensers.

Based on information currently available, the applicant is in compliance with all applicable DEQ regulations in that these tanks are permitted and fee payments are current. The facility is also in compliance with Stage II vapor recovery rules.

b. Eligible Cost Findings

In determining the percent of the eligible pollution control facility cost allocable to pollution control, the following factors from ORS 468.190 have been considered and analyzed as indicated:

1) The extent to which the facility is used to recover and convert waste products into a salable or usable commodity.

The equipment does not recover or convert waste products into a salable or usable commodity.

2) The estimated annual percent return on the investment in the facility.

There is no annual percent return on investment as the applicant claims no gross annual income from the facility.

3) The alternative methods, equipment and costs for achieving the same pollution control objective.

The applicant considered the methods chosen to be the most cost effective. The methods chosen are acceptable for meeting the requirements of federal regulations.

4) Any related savings or increase in costs which occur or may occur as a result of the installation of the facility.

The applicant claims no savings or increase in costs as a result of the installation.

5) Any other factors which are relevant in establishing the portion of the actual cost of the facility properly allocable to pollution control.

There are no other factors to consider in establishing the actual cost of the facility properly allocable to prevention, control of reduction of pollution.

The actual cost of the facility properly allocable to pollution control is determined by using these factors as displayed in the following table:

Application No. TC-4262 Page 5

	Eligible Facility Cost	Percent Allocable	Amount Allocable
Corrosion Protection:			
Doublewall fiberglass			
tanks and piping	\$50,752	64% (1)	\$32,481
			-
Spill & Overfill Prevention:	•		
Spill containment basins	402	100	402
Overfill alarm	195	100	195
Oil/water separator	4,584	100	4,584
Sumps	4,724	100	4,724
Leak Detection:			
Tank gauge system	8,000	90 (2)	7,200
Turbine leak detectors	1,329	100	1,329
Monitoring wells	256	100	256
Monitoring wens	230	100	230
Stage I & II vapor recovery	,		
(incl. 8 hozes and nozzles			
on 5 dispensers)	5,230	100	5,230
Labor and materials	85,354	100	85,354
AND AT MILL MANYAAMAD			
Total	\$160,826	88%	\$141,755
TOTAL	φ100,020	0070	Ψ Ι ΨΙ,/JJ

- (1) The Department has determined the percent allocable on the cost of a corrosion protected tank and piping system by using a formula based on the difference in cost between the protected tank and piping system and an equivalent bare steel system as a percent of the protected system. Applying this formula to the costs presented by the applicant, where the protected system cost is \$50,752 and the bare steel system is \$18,059, the resulting portion of the eligible tank and piping cost allocable to pollution control is 64%.
- (2) The applicant's cost for a tank gauge system is reduced to 90% of cost based on a determination by the Department that this is the portion properly allocable to pollution control since the device can serve other purposes, for example, inventory control.

5. <u>Summation</u>

- a. The facility was constructed in accordance with all regulatory requirements.
- b. The facility is eligible for tax credit certification in that the principal purpose of the claimed facility is to comply with requirements imposed by the federal Environmental Protection Agency to prevent pollution of soil, water and air. This is accomplished by preventing releases in soil, water or air. The facility qualifies as a "pollution control facility" defined in OAR 340-16-025(2)(g): "Installation or construction of facilities which will be used to detect, deter or prevent spills or unauthorized releases."
- c. The facility complies with DEQ statutes and rules.
- d. The portion of the facility cost that is properly allocable to pollution control is 88%.
- 6. Director's Recommendation

Based upon these findings, it is recommended that a Pollution Control Facility Certificate bearing the cost of \$160,826 with 88% allocated to pollution control, be issued for the facility claimed in Tax Credit Application No. TC-4262.

Barbara J. Anderson (503) 229-5870 November 14, 1994

TAX RELIEF APPLICATION REVIEW REPORT

1. <u>Applicant</u>

Fairgrounds Service, Inc. P. O. Box 3909 Central Point, OR 97502

The applicant owns and operates a retail gas station at 1510 E. Pine St., Central Point, OR, Facility No. 787.

Application was made for a tax credit for a water pollution control facility involving underground storage tanks. The application also included related air quality Stage I vapor recovery and Stage II vapor recovery piping.

2. <u>Description of Claimed Facility</u>

The claimed pollution control facilities described in this application are three doublewall fiberglass coated steel tanks doublewall flexible piping, spill containment basins, tank gauge system, automatic shutoff valves, monitoring wells, overfill alarm, sumps and Stage I and II vapor recovery piping.

Claimed facility cost (Accountant's certification was provided) \$78,474

3. <u>Procedural Requirements</u>

The facility is governed by ORS 468.150 through 468.190, and by OAR Chapter 340, Division 16.

The facility was substantially completed on October 26, 1993 and placed into operation on October 27, 1993. The application for certification was submitted to the Department on August 1, 1994 and was considered to be complete and filed on October 24, 1994, within two years of the completion date of the project.

4. Evaluation of Application

a. The facility is eligible because the principal purpose of the facility is to comply with underground storage tank requirements imposed by the federal Environmental Protection Agency to prevent pollution of soil, water and air. This is accomplished by preventing releases into soil, water or air. The facility qualifies as a "pollution control facility", defined in OAR 340-16-025(2)(g): "Installation or construction of facilities which will be used to detect, deter or prevent spills or unauthorized releases."

Prior to the installation of pollution control, the facility consisted of three steel tanks and piping with no corrosion protection and no spill and overfill prevention or leak detection equipment.

To respond to Air Quality regulations under OAR 340-22-400 - 403 and Underground Storage Tank requirements under OAR 340-Division 150, the applicant installed:

- 1) For corrosion protection Doublewall fiberglass coated steel tanks and doublewall flexible piping.
- 2) For spill and overfill prevention Spill containment basins, overfill alarm, sumps and automatic shutoff valves.
- 3) For leak detection Tank gauge system and monitoring wells.
- 4) For VOC reduction Stage I vapor recovery and Stage II vapor recovery piping.

Based on information currently available, the applicant is in compliance with all applicable DEQ regulations in that these tanks are permitted and fee payments are current.

The Department concludes that the costs claimed by the applicant (\$78,474) are eligible pursuant to the definition of a pollution control facility in ORS 468.155.

b. Eligible Cost Findings

In determining the percent of the eligible pollution control facility cost allocable to pollution control, the following factors from ORS 468.190 have been considered and analyzed as indicated:

1) The extent to which the facility is used to recover and convert waste products into a salable or usable commodity.

The equipment does not recover or convert waste products into a salable or usable commodity.

2) The estimated annual percent return on the investment in the facility.

There is no annual percent return on investment as the applicant claims no gross annual income from the facility.

3) The alternative methods, equipment and costs for achieving the same pollution control objective.

The applicant did not indicate that alternatives were considered. The methods chosen are acceptable for meeting the requirements of federal regulations.

4) Any related savings or increase in costs which occur or may occur as a result of the installation of the facility.

The applicant claims no savings or increase in costs as a result of the installation.

5) Any other factors which are relevant in establishing the portion of the actual cost of the facility properly allocable to pollution control.

There are no other factors to consider in establishing the actual cost of the facility properly allocable to prevention, control of reduction of pollution.

The actual cost of the facility properly allocable to pollution control is determined by using these factors as displayed in the following table:

Eligible Facility Cost	Percent Allocable	Amount Allocable
\$35,974	61% (1)	\$21,944
1,155	100	1,155
214	100	214
2,530	100	2,530
2,786	100	2,786
8,017	90 (2)	7,215
231	100	231
1,687	100	1,687
25,880	100	25,880
\$78,474	81%	\$63,642
	Facility Cost \$35,974 1,155 214 2,530 2,786 8,017 231 1,687 25,880	Facility Cost Percent Allocable \$35,974 61% (1) \$35,974 61% (1) 1,155 100 2,14 100 2,530 100 2,786 100 8,017 90 (2) 231 100 1,687 100 25,880 100

- (1) The Department has determined the percent allocable on the cost of a corrosion protected tank and piping system by using a formula based on the difference in cost between the protected tank and piping system and an equivalent bare steel system as a percent of the protected system. Applying this formula to the costs presented by the applicant, where the protected system cost is \$35,974 and the bare steel system is \$13,942, the resulting portion of the eligible tank and piping cost allocable to pollution control is 61%.
- (2) The applicant's cost for a tank gauge system is reduced to 90% of cost based on a determination by the Department that this is the portion properly allocable to pollution control since the device can serve other purposes, for example, inventory control.

5. <u>Summation</u>

- a. The facility was constructed in accordance with all regulatory requirements.
- b. The facility is eligible for tax credit certification in that the principal purpose of the claimed facility is to comply with requirements imposed by the federal Environmental Protection Agency to prevent pollution of soil, water and air. This is accomplished by preventing releases in soil, water or air. The facility qualifies as a "pollution control facility" defined in OAR 340-16-025(2)(g): "Installation or construction of facilities which will be used to detect, deter or prevent spills or unauthorized releases."
- c. The facility complies with DEQ statutes and rules.
- d. The portion of the facility cost that is properly allocable to pollution control is 81%.
- 6. <u>Director's Recommendation</u>

Based upon these findings, it is recommended that a Pollution Control Facility Certificate bearing the cost of \$78,474 with 81% allocated to pollution control, be issued for the facility claimed in Tax Credit Application No. TC-4263.

Barbara J. Anderson (503) 229-5870 October 24, 1994

\$153,149

State of Oregon Department of Environmental Quality

TAX RELIEF APPLICATION REVIEW REPORT

1. <u>Applicant</u>

West Central Service, Inc. P O Box 1031 Sutherlin, OR 97479

The applicant owns and operates a retail gas station at 1436 West Central, Sutherlin, OR, Facility No. 4428.

Application was made for a tax credit for a water pollution control facility involving underground storage tanks.

2. <u>Description of Claimed Facility</u>

The claimed pollution control facilities described in this application are four fiberglass tanks and doublewall fiberglass piping, spill containment basins, tank gauge system with overfill alarm, automatic shutoff valves, turbine leak detectors, sumps and monitoring wells.

Claimed facility cost (Accountant's certification was provided)

The Department concludes that the eligible facility cost for the project is \$113,149. This represents a difference of \$40,000 from the applicant's claimed cost of \$153,149 due to the fact that the facility is a new installation (no tanks have existed at that location since 1987) and labor and materials to install tanks and piping, estimated at \$40,000 by the applicant, are not eligible for a tax credit pursuant to the definition of a pollution control facility in ORS 468.155.

3. <u>Procedural Requirements</u>

The facility is governed by ORS 468.150 through 468.190, and by OAR Chapter 340, Division 16.

The facility was substantially completed on January 20, 1994 and placed into operation on January 20, 1994. The application for certification was submitted to the Department on August 29, 1994 was considered to be complete and filed on October 24, 1994, within two years of the completion date of the project.

4. <u>Evaluation of Application</u>

a. The facility is eligible because the principal purpose of the facility is to comply with underground storage tank requirements imposed by the federal Environmental Protection Agency to prevent pollution of soil and water. This is accomplished by preventing releases into soil and water. The facility qualifies as a "pollution control facility", defined in OAR 340-16-025(2)(g): "Installation or construction of facilities which will be used to detect, deter or prevent spills or unauthorized releases."

Prior to the installation of pollution control, there was no motor fuel storage facility. A previous underground storage tank facility at the site was permanently decommissioned in 1987.

To respond to Underground Storage Tank requirements under OAR 340-Division 150, the applicant installed:

- 1) For corrosion protection Fiberglass tanks and doublewall fiberglass piping.
- 2) For spill and overfill prevention Spill containment basins, overfill alarm, sumps and automatic shutoff valves.
- 3) For leak detection Tank gauge system, turbine leak detectors and monitoring wells.

Based on information currently available, the applicant is in compliance with all applicable DEQ regulations in that these tanks are permitted and fee payments are current.

b. Eligible Cost Findings

In determining the percent of the eligible pollution control facility cost allocable to pollution control, the following factors from ORS 468.190 have been considered and analyzed as indicated:

1) The extent to which the facility is used to recover and convert waste products into a salable or usable commodity.

The equipment does not recover or convert waste products into a salable or usable commodity.

2) The estimated annual percent return on the investment in the facility.

There is no annual percent return on investment as the applicant claims no gross annual income from the facility.

3) The alternative methods, equipment and costs for achieving the same pollution control objective.

The applicant considered the methods chosen to be the best available. The methods chosen are acceptable for meeting the requirements of federal regulations.

4) Any related savings or increase in costs which occur or may occur as a result of the installation of the facility.

The applicant claims no savings or increase in costs as a result of the installation.

5) Any other factors which are relevant in establishing the portion of the actual cost of the facility properly allocable to pollution control.

There are no other factors to consider in establishing the actual cost of the facility properly allocable to prevention, control of reduction of pollution.

The actual cost of the facility properly allocable to pollution control is determined by using these factors as displayed in the following table:

Application No. TC-4272 Page 4

· · · ·	Eligible Facility Cost	Percent Allocable	Amount Allocable
Corrosion Protection:	<u> </u>		<u></u>
Doublewall fiberglass			
tanks and piping	\$42,061	51% (1)	\$21,451
Spill & Overfill Prevention:			
Spill containment basins	1,138	100	1,138
Sumps	6,432	100	6,432
Automatic shutoff valves	1,040	100	1,040
Leak Detection:			
Tank gauge w/alarm	9,666	90 (2)	8,699
Turbine leak detectors	1,826	100	1,826
Monitoring wells	Included with labor and materials		
Labor and materials	50,986	100	50,986
Total	\$113,149	81%	\$91,572

- (1) The Department has determined the percent allocable on the cost of a corrosion protected tank and piping system by using a formula based on the difference in cost between the protected tank and piping system and an equivalent bare steel system as a percent of the protected system. Applying this formula to the costs presented by the applicant, where the protected system cost is \$42,061 and the bare steel system is \$20,439, the resulting portion of the eligible tank and piping cost allocable to pollution control is 51%.
- (2) The applicant's cost for a tank gauge system is reduced to 90% of cost based on a determination by the Department that this is the portion properly allocable to pollution control since the device can serve other purposes, for example, inventory control.

5. <u>Summation</u>

- a. The facility was constructed in accordance with all regulatory requirements.
- b. The facility is eligible for tax credit certification in that the principal purpose of the claimed facility is to comply with requirements imposed by the federal Environmental Protection Agency to prevent pollution of soil, water and air. This is accomplished by preventing releases in soil, water or air. The facility qualifies as a "pollution control facility" defined in OAR 340-16-025(2)(g): "Installation or construction of facilities which will be used to detect, deter or prevent spills or unauthorized releases."
- c. The facility complies with DEQ statutes and rules.
- d. The portion of the facility cost that is properly allocable to pollution control is 81%.
- 6. <u>Director's Recommendation</u>

Based upon these findings, it is recommended that a Pollution Control Facility Certificate bearing the cost of \$113,149 with 81% allocated to pollution control, be issued for the facility claimed in Tax Credit Application No. TC-4272.

Barbara J. Anderson (503) 229-5870 October 24, 1994

TAX RELIEF APPLICATION REVIEW REPORT

1. <u>Applicant</u>

Western Stations Co. P O Box 5969 Portland, OR 97228-5969

The applicant owns and operates a retail gas station at 2809 N. Portland, Portland, OR, Facility No. 5645.

Application was made for a tax credit for a water pollution control facility involving underground storage tanks. The application also included related air quality Stage I vapor recovery and Stage II vapor recovery equipment.

2. <u>Description of Claimed Facility</u>

The claimed pollution control facilities described in this application are two fiberglass clad steel tanks, doublewall flexible piping, spill containment basins, tank gauge system, line leak detectors, sumps and Stage I and II vapor recovery equipment.

Claimed facility cost (Accountant's certification was provided) \$100,733

3. <u>Procedural Requirements</u>

The facility is governed by ORS 468.150 through 468.190, and by OAR Chapter 340, Division 16.

Application No. TC-4273 Page 2

The facility was substantially completed on April 19, 1994 and placed into operation on April 20, 1994. The application for certification was submitted to the Department on August 31, 1994 was considered to be complete and filed on October 24, 1994, within two years of the completion date of the project.

4. <u>Evaluation of Application</u>

a. The facility is eligible because the principal purpose of the facility is to comply with underground storage tank requirements imposed by the federal Environmental Protection Agency to prevent pollution of soil, water and air. This is accomplished by preventing releases into soil, water or air. The facility qualifies as a "pollution control facility", defined in OAR 340-16-025(2)(g): "Installation or construction of facilities which will be used to detect, deter or prevent spills or unauthorized releases."

Prior to the installation of pollution control, the facility consisted of three steel tanks and piping with no corrosion protection and no spill and overfill prevention or leak detection equipment.

To respond to Air Quality regulations under OAR 340-22-400 - 403 and Underground Storage Tank requirements under OAR 340-Division 150, the applicant installed:

- 1) For corrosion protection Fiberglass clad steel tanks and doublewall flexible piping.
- 2) For spill and overfill prevention Spill containment basins and sumps.
- 3) For leak detection Tank gauge system and line leak detectors.
- 4) For VOC reduction Stage I and II vapor recovery piping, hoses & nozzles on 4 dispensers.

Based on information currently available, the applicant is in compliance with all applicable DEQ regulations in that these tanks are permitted and fee payments are current. The facility is also in compliance with Stage II vapor recovery rules.

The Department concludes that the costs claimed by the applicant (\$100,733) are eligible pursuant to the definition of a pollution control facility in ORS 468.155.

b. Eligible Cost Findings

In determining the percent of the eligible pollution control facility cost allocable to pollution control, the following factors from ORS 468.190 have been considered and analyzed as indicated:

1) The extent to which the facility is used to recover and convert waste products into a salable or usable commodity.

The equipment does not recover or convert waste products into a salable or usable commodity.

2) The estimated annual percent return on the investment in the facility.

There is no annual percent return on investment as the applicant claims no gross annual income from the facility.

3) The alternative methods, equipment and costs for achieving the same pollution control objective.

The applicant found there were no alternatives to consider. The methods chosen are acceptable for meeting the requirements of federal regulations.

4) Any related savings or increase in costs which occur or may occur as a result of the installation of the facility.

The applicant claims no savings or increase in costs as a result of the installation.

5) Any other factors which are relevant in establishing the portion of the actual cost of the facility properly allocable to pollution control.

There are no other factors to consider in establishing the actual cost of the facility properly allocable to prevention, control of reduction of pollution.

The actual cost of the facility properly allocable to pollution control is determined by using these factors as displayed in the following table:

Application No. TC-4273 Page 4

	Eligible Facility Cost	Percent Allocable	Amount Allocable
Corrosion Protection:	<u></u>		<u></u>
Fiberglass clad steel tanks			
& doublewall piping	\$27,325	72% (1)	\$19,674
Spill & Overfill Prevention:	<u>.</u>		
Spill containment basins	918	100	918
Sumps	3,548	100	3,548
Leak Detection:			
Tank gauge system	5,802	90 (2)	5,222
Line leak detectors	380	100	380
Stage I & II vapor recovery (incl. 8 hozes and nozzles			
on 4 dispensers)	9,994	100	9,994
Labor and materials	52,766	100	52,766
Total	\$100,733	92%	\$92,502

- (1) The Department has determined the percent allocable on the cost of a corrosion protected tank and piping system by using a formula based on the difference in cost between the protected tank and piping system and an equivalent bare steel system as a percent of the protected system. Applying this formula to the costs presented by the applicant, where the protected system cost is \$27,325 and the bare steel system is \$7,700, the resulting portion of the eligible tank and piping cost allocable to pollution control is 72%.
- (2) The applicant's cost for a tank gauge system is reduced to 90% of cost based on a determination by the Department that this is the portion properly allocable to pollution control since the device can serve other purposes, for example, inventory control.

5. <u>Summation</u>

- a. The facility was constructed in accordance with all regulatory requirements.
- b. The facility is eligible for tax credit certification in that the principal purpose of the claimed facility is to comply with requirements imposed by the federal Environmental Protection Agency to prevent pollution of soil, water and air. This is accomplished by preventing releases in soil, water or air. The facility qualifies as a "pollution control facility" defined in OAR 340-16-025(2)(g): "Installation or construction of facilities which will be used to detect, deter or prevent spills or unauthorized releases."
- c. The facility complies with DEQ statutes and rules.
- d. The portion of the facility cost that is properly allocable to pollution control is 92%.

6. <u>Director's Recommendation</u>

Based upon these findings, it is recommended that a Pollution Control Facility Certificate bearing the cost of \$100,733 with 92% allocated to pollution control, be issued for the facility claimed in Tax Credit Application No. TC-4273.

Barbara J. Anderson (503) 229-5870 October 24, 1994

TAX RELIEF APPLICATION REVIEW REPORT

1. <u>Applicant</u>

Western Stations Co. P O Box 5969 Portland, OR 97228-5969

The applicant owns and operates a retail gas station at 4027 SE 39th, Portland, OR, Facility No. 6234.

Application was made for a tax credit for a water pollution control facility involving underground storage tanks. The application also included related air quality Stage I vapor recovery and Stage II vapor recovery equipment.

2. <u>Description of Claimed Facility</u>

The claimed pollution control facilities described in this application are impressed current cathodic protection on three steel tanks, doublewall flexible piping, spill containment basins, tank gauge system, overfill alarm, automatic shutoff valves, line leak detectors, sumps and Stage I and II vapor recovery equipment.

Claimed facility cost (Accountant's certification was provided) \$94,707

3. <u>Procedural Requirements</u>

The facility is governed by ORS 468.150 through 468.190, and by OAR Chapter 340, Division 16.

Application No. TC-4274 Page 2

The facility was substantially completed on April 4, 1994 and placed into operation on April 12, 1994. The application for certification was submitted to the Department on August 31, 1994 was considered to be complete and filed on October 24, 1994, within two years of the completion date of the project.

4. Evaluation of Application

a. The facility is eligible because the principal purpose of the facility is to comply with underground storage tank requirements imposed by the federal Environmental Protection Agency to prevent pollution of soil, water and air. This is accomplished by preventing releases into soil, water or air. The facility qualifies as a "pollution control facility", defined in OAR 340-16-025(2)(g): "Installation or construction of facilities which will be used to detect, deter or prevent spills or unauthorized releases."

Prior to the installation of pollution control, the facility consisted of four steel tanks and piping with no corrosion protection and no spill and overfill prevention or leak detection equipment. One tank was permanently decommissioned as part of the project.

To respond to Air Quality regulations under OAR 340-22-400 - 403 and Underground Storage Tank requirements under OAR 340-Division 150, the applicant installed:

- 1) For corrosion protection Impressed current cathodic protection around steel tanks and doublewall flexible piping.
- 2) For spill and overfill prevention Spill containment basins, overfill alarm, sumps and automatic shutoff valves.
- 3) For leak detection Tank gauge system and line leak detectors.
- 4) For VOC reduction Stage I and II vapor recovery piping, hoses & nozzles on 4 dispensers.

Based on information currently available, the applicant is in compliance with all applicable DEQ regulations in that these tanks are permitted and fee payments are current. The facility is also in compliance with Stage II vapor recovery rules.

The Department concludes that the costs claimed by the applicant (\$94,707) are eligible pursuant to the definition of a pollution control facility in ORS 468.155.

b. Eligible Cost Findings

In determining the percent of the eligible pollution control facility cost allocable to pollution control, the following factors from ORS 468.190 have been considered and analyzed as indicated:

1) The extent to which the facility is used to recover and convert waste products into a salable or usable commodity.

The equipment does not recover or convert waste products into a salable or usable commodity.

2) The estimated annual percent return on the investment in the facility.

There is no annual percent return on investment as the applicant claims no gross annual income from the facility.

3) The alternative methods, equipment and costs for achieving the same pollution control objective.

The applicant chose the most cost effective methods. The methods chosen are acceptable for meeting the requirements of federal regulations.

4) Any related savings or increase in costs which occur or may occur as a result of the installation of the facility.

The applicant claims no savings or increase in costs as a result of the installation.

5) Any other factors which are relevant in establishing the portion of the actual cost of the facility properly allocable to pollution control.

There are no other factors to consider in establishing the actual cost of the facility properly allocable to prevention, control of reduction of pollution.

The actual cost of the facility properly allocable to pollution control is determined by using these factors as displayed in the following table:

	Eligible Facility Cost	Percent Allocable	Amount Allocable
<u>Corrosion Protection:</u> Doublewall piping Cathodic protection	\$4,200 19,965	95% (1) 100	\$3,990 19,965
Spill & Overfill Prevention: Spill containment basins Automatic shutoff valves Overfill alarm Sumps	1,044	100 vith labor & m 100 100	1,044 aterials 197 5,058
Leak Detection: Tank gauge system Line leak detectors	6,134 903	90 (2) 100	5,521 903
Stage I & II vapor recovery (incl. 8 hozes and nozzles on 4 dispensers)Labor and materials	10,880 46,326	100 100	10,880 46,326
Total	\$94,707	99%	\$93,884

- (1) The Department has determined the percent allocable on the cost of a corrosion protected piping system by using a formula based on the difference in cost between the protected piping system and an equivalent bare steel system as a percent of the protected system. Applying this formula to the costs presented by the applicant, where the protected system cost is \$4,200 and the bare steel system is \$192, the resulting portion of the eligible piping cost allocable to pollution control is 95%.
- (2) The applicant's cost for a tank gauge system is reduced to 90% of cost based on a determination by the Department that this is the portion properly allocable to pollution control since the device can serve other purposes, for example, inventory control.

5. <u>Summation</u>

- a. The facility was constructed in accordance with all regulatory requirements.
- b. The facility is eligible for tax credit certification in that the principal purpose of the claimed facility is to comply with requirements imposed by the federal Environmental Protection Agency to prevent pollution of soil, water and air. This is accomplished by preventing releases in soil, water or air. The facility qualifies as a "pollution control facility" defined in OAR 340-16-025(2)(g): "Installation or construction of facilities which will be used to detect, deter or prevent spills or unauthorized releases."
- c. The facility complies with DEQ statutes and rules.
- d. The portion of the facility cost that is properly allocable to pollution control is 99%.

6. <u>Director's Recommendation</u>

Based upon these findings, it is recommended that a Pollution Control Facility Certificate bearing the cost of \$94,707 with 99% allocated to pollution control, be issued for the facility claimed in Tax Credit Application No. TC-4274.

Barbara J. Anderson (503) 229-5870 October 24, 1994

TAX RELIEF APPLICATION REVIEW REPORT

1. Applicant

Truax Harris Energy Company P.O. Box 607 Wilsonville, OR 97070

The applicant owns and operates Union Cardlock, a gasoline sales and service station on 8100 NE Union Avenue in Portland, Oregon.

Application was made for tax credit for an air pollution control facility.

2. Description of Facility

The claimed facility is an above ground stage II vapor recovery balance type system. The system is composed of Husky nozzles, Dayco hoses, OPW adapters, OPW breakaway safety valves, piping and additional miscellaneous equipment. Installation of the facility prevents the escape of gasoline vapors into the atmosphere.

Claimed Facility Cost:

\$32,105.55

The applicant documented the facility costs.

3. Procedural Requirements

The facility is governed by ORS 468.150 through 468.190, and by OAR Chapter 340, Division 16.

The facility met all statutory deadlines in that:

Construction and installation of the facility was substantially completed on March 11, 1994. The facility was placed into operation on March 11, 1994. The application for final certification was submitted to the Department on September 6, 1994, within two years of substantial completion of the facility. The application was found to be complete on October 27, 1994.

4. Evaluation of Application

a. Rationale For Eligibility

The facility is eligible because the principal purpose of the facility is to comply with a requirement imposed by the Department to prevent the escape of gasoline vapors into the atmosphere. This is in accordance with OAR Chapter 340-22-400 to 403. The emission reduction is accomplished by the elimination of air contaminants as defined in ORS 468A.005.

- The facility prevents gasoline vapors from escaping into the atmosphere. The face plate on the nozzle delivering the gasoline forms a tight seal on the fill pipe of the automobile gas tank. As the spout dispenses gasoline there is a small pressure increase created in the automobile gasoline tank due to the additional volume of the added fuel. This pressure increase drives the gasoline vapor from the automobile fuel tank through a secondary line in the nozzle back into the underground storage tank. The gasoline vapor travels through a secondary containment pipe surrounding the pipe the gasoline is dispensed through. The underground tank receives the additional volume in the form of gasoline vapors. There is no net pressure increase in the underground tank because the tank has already dispensed an equivalent volume of liquid gasoline. The vapor recovered is vapor that would otherwise escape from the automobile tank and the gasoline dispensing nozzle into the atmosphere.
- b. Eligible Cost Findings

In determining the percent of the pollution control facility cost allocable to pollution control, the following factors from ORS 468.190 have been considered and analyzed as indicated:

1) The extent to which the facility is used to recover and convert waste products into a salable or usable commodity.

A portion of the waste product is converted into a salable or usable commodity consisting of recovered gasoline. It is the position of the Department that the volume of gasoline recovered is of an insignificant economic benefit.

2) The estimated annual percent return on the investment in the facility.

The applicant indicates in the application there is no income or savings from the facility, so there is no return on the investment.

3) The alternative methods, equipment and costs for achieving the same pollution control objective.

Stage II vapor recovery balance type systems are technically recognized as an acceptable method for controlling the emissions of vapors from gasoline service stations. 4) Any related savings or increase in costs which occur or may occur as a result of the installation of the facility.

The applicant indicated there were no savings or increase in costs as a result of the facility modification.

5) Any other factors which are relevant in establishing the portion of the actual cost of the facility properly allocable to the prevention, control or reduction of air pollution.

There are no other factors to consider in establishing the actual cost of the facility properly allocable to reduction of pollution. The principal purpose of the facility is to prevent a substantial quantity of air pollution.

The actual cost of the facility properly allocable to pollution control as determined by using these factors is 100%.

5. <u>Summation</u>

- a. The facility was constructed in accordance with all regulatory deadlines.
- b. The facility is eligible for final tax credit certification in that the principal purpose of the facility is to comply with a requirement imposed by the Department to reduce air pollution.
- c. The facility complies with Department rules.
- d. The portion of the facility cost that is properly allocable to pollution control is 100%.

6. Director's Recommendation

Based upon these findings, it is recommended that a Pollution Control Facility Certificate bearing the cost of \$32,106 with 100% allocated to pollution control, be issued for the facility claimed in Tax Credit Application No. TC-4276.

Tonia C. Garbowsky: PRC Environmental Management, October 26, 1994

TAX RELIEF APPLICATION REVIEW REPORT

1. Applicant

Truax Harris Energy Company P.O. Box 607 Wilsonville, OR 97070

The applicant owns and operates 29th Avenue Cardlock, a gasoline sales and service station on 3037 NW 29th Avenue in Portland, Oregon.

Application was made for tax credit for an air pollution control facility.

2. Description of Facility

The claimed facility is an above ground stage II vapor recovery balance type system. The system is composed of Husky nozzles, Dayco hoses, OPW adapters, OPW breakaway safety valves, piping and additional miscellaneous equipment. Installation of the facility prevents the escape of gasoline vapors into the atmosphere.

Claimed Facility Cost:

\$15,813.80

The applicant documented the facility costs.

3. Procedural Requirements

The facility is governed by ORS 468.150 through 468.190, and by OAR Chapter 340, Division 16.

The facility met all statutory deadlines in that:

Construction and installation of the facility was substantially completed on March 14, 1994. The facility was placed into operation on March 14, 1994. The application for final certification was submitted to the Department on September 6, 1994, within two years of substantial completion of the facility. The application was found to be complete on October 27, 1994.

4. Evaluation of Application

a. Rationale For Eligibility

The facility is eligible because the principal purpose of the facility is to comply with a requirement imposed by the Department to prevent the escape of gasoline vapors into the atmosphere. This is in accordance with OAR Chapter 340-22-400 to 403. The emission reduction is accomplished by the elimination of air contaminants as defined in ORS 468A.005.

The facility prevents gasoline vapors from escaping into the atmosphere. The face plate on the nozzle delivering the gasoline forms a tight seal on the fill pipe of the automobile gas tank. As the spout dispenses gasoline there is a small pressure increase created in the automobile gasoline tank due to the additional volume of the added fuel. This pressure increase drives the gasoline vapor from the automobile fuel tank through a secondary line in the nozzle back into the underground storage tank. The gasoline vapor travels through a secondary containment pipe surrounding the pipe the gasoline is dispensed through. The underground tank receives the additional volume in the form of gasoline vapors. There is no net pressure increase in the underground tank because the tank has already dispensed an equivalent volume of liquid gasoline. The vapor recovered is vapor that would otherwise escape from the automobile tank and the gasoline dispensing nozzle into the atmosphere.

b. Eligible Cost Findings

In determining the percent of the pollution control facility cost allocable to pollution control, the following factors from ORS 468.190 have been considered and analyzed as indicated:

1) The extent to which the facility is used to recover and convert waste products into a salable or usable commodity.

A portion of the waste product is converted into a salable or usable commodity consisting of recovered gasoline. It is the position of the Department that the volume of gasoline recovered is of an insignificant economic benefit.

2) The estimated annual percent return on the investment in the facility.

The applicant indicates in the application there is no income or savings from the facility, so there is no return on the investment.

3) The alternative methods, equipment and costs for achieving the same pollution control objective.

Stage II vapor recovery balance type systems are technically recognized as an acceptable method for controlling the emissions of vapors from gasoline service stations. 4) Any related savings or increase in costs which occur or may occur as a result of the installation of the facility.

The applicant indicated there were no savings or increase in costs as a result of the facility modification.

5) Any other factors which are relevant in establishing the portion of the actual cost of the facility properly allocable to the prevention, control or reduction of air pollution.

There are no other factors to consider in establishing the actual cost of the facility properly allocable to reduction of pollution. The principal purpose of the facility is to prevent a substantial quantity of air pollution.

The actual cost of the facility properly allocable to pollution control as determined by using these factors is 100%.

5. Summation

- a. The facility was constructed in accordance with all regulatory deadlines.
- b. The facility is eligible for final tax credit certification in that the principal purpose of the facility is to comply with a requirement imposed by the Department to reduce air pollution.
- c. The facility complies with Department rules.
- d. The portion of the facility cost that is properly allocable to pollution control is 100%.

6. Director's Recommendation

Based upon these findings, it is recommended that a Pollution Control Facility Certificate bearing the cost of \$15,814 with 100% allocated to pollution control, be issued for the facility claimed in Tax Credit Application No. TC-4277.

Tonia C. Garbowsky: PRC Environmental Management, October 26, 1994

TAX RELIEF APPLICATION REVIEW REPORT

1. Applicant

Truax Harris Energy Company P.O. Box 607 Wilsonville, OR 97070

The applicant owns and operates Cardlock, a gasoline sales and service station on 7th and Alder Streets in Portland, Oregon.

Application was made for tax credit for an air pollution control facility.

2. Description of Facility

The claimed facility is an above ground stage II vapor recovery balance type system. The system is composed of Husky nozzles, Dayco hoses, OPW adapters, OPW breakaway safety valves, piping and additional miscellaneous equipment. Installation of the facility prevents the escape of gasoline vapors into the atmosphere.

Claimed Facility Cost:

\$16,298.37

The applicant documented the facility costs.

3. <u>Procedural Requirements</u>

The facility is governed by ORS 468.150 through 468.190, and by OAR Chapter 340, Division 16.

The facility met all statutory deadlines in that:

Construction and installation of the facility was substantially completed on February 22, 1994. The facility was placed into operation on February 22, 1994. The application for final certification was submitted to the Department on September 6, 1994, within two years of substantial completion of the facility. The application was found to be complete on October 27, 1994.

Evaluation of Application

4.

a. Rationale For Eligibility

The facility is eligible because the principal purpose of the facility is to comply with a requirement imposed by the Department to prevent the escape of gasoline vapors into the atmosphere. This is in accordance with OAR Chapter 340-22-400 to 403. The emission reduction is accomplished by the elimination of air contaminants as defined in ORS 468A.005.

The facility prevents gasoline vapors from escaping into the atmosphere. The face plate on the nozzle delivering the gasoline forms a tight seal on the fill pipe of the automobile gas tank. As the spout dispenses gasoline there is a small pressure increase created in the automobile gasoline tank due to the additional volume of the added fuel. This pressure increase drives the gasoline vapor from the automobile fuel tank through a secondary line in the nozzle back into the underground storage tank. The gasoline vapor travels through a secondary containment pipe surrounding the pipe the gasoline is dispensed through. The underground tank receives the additional volume in the form of gasoline vapors. There is no net pressure increase in the underground tank because the tank has already dispensed an equivalent volume of liquid gasoline. The vapor recovered is vapor that would otherwise escape from the automobile tank and the gasoline dispensing nozzle into the atmosphere.

b. Eligible Cost Findings

In determining the percent of the pollution control facility cost allocable to pollution control, the following factors from ORS 468.190 have been considered and analyzed as indicated:

1) The extent to which the facility is used to recover and convert waste products into a salable or usable commodity.

A portion of the waste product is converted into a salable or usable commodity consisting of recovered gasoline. It is the position of the Department that the volume of gasoline recovered is of an insignificant economic benefit.

2) The estimated annual percent return on the investment in the facility.

The applicant indicates in the application there is no income or savings from the facility, so there is no return on the investment.

3) The alternative methods, equipment and costs for achieving the same pollution control objective.

Stage II vapor recovery balance type systems are technically recognized as an acceptable method for controlling the emissions of vapors from gasoline service stations. 4) Any related savings or increase in costs which occur or may occur as a result of the installation of the facility.

The applicant indicated there were no savings or increase in costs as a result of the facility modification.

5) Any other factors which are relevant in establishing the portion of the actual cost of the facility properly allocable to the prevention, control or reduction of air pollution.

There are no other factors to consider in establishing the actual cost of the facility properly allocable to reduction of pollution. The principal purpose of the facility is to prevent a substantial quantity of air pollution.

The actual cost of the facility properly allocable to pollution control as determined by using these factors is 100%.

5. Summation

- a. The facility was constructed in accordance with all regulatory deadlines.
- b. The facility is eligible for final tax credit certification in that the principal purpose of the facility is to comply with a requirement imposed by the Department to reduce air pollution.
- c. The facility complies with Department rules.
- d. The portion of the facility cost that is properly allocable to pollution control is 100%.

6. Director's Recommendation

Based upon these findings, it is recommended that a Pollution Control Facility Certificate bearing the cost of \$16,298 with 100% allocated to pollution control, be issued for the facility claimed in Tax Credit Application No. TC-4278.

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Tonia C. Garbowsky: PRC Environmental Management, October 26, 1994

TAX RELIEF APPLICATION REVIEW REPORT

1. <u>Applicant</u>

Truax Harris Energy Co. P.O. Box 607 Wilsonville, OR 97070

The applicant owns and operates a retail service station at 1720 N. Hwy. 99 West, McMinnville, OR 97128, Facility No. 7172.

Application was made for a tax credit for a water pollution control facility involving underground storage tanks.

2. <u>Description of Claimed Facility</u>

The claimed pollution control facilities described in this application are a tank monitor system with alarm.

Claimed facility cost (Documentation of cost was provided.)

\$17,361

3. <u>Procedural Requirements</u>

The facility is governed by ORS 468.150 through 468.190, and by OAR Chapter 340, Division 16.

The facility was substantially completed on April 15, 1994 and placed into operation on April 15, 1994. The application for certification was submitted to the Department on September 6, 1994 and was considered to be complete and filed on October 24, 1994, within two years of the completion date of the project.

4. <u>Evaluation of Application</u>

a. The facility is eligible because the principal purpose of the facility is to comply with underground storage tank requirements imposed by the federal Environmental Protection Agency to prevent pollution of soil, water and air. This is accomplished by preventing releases into soil, water or air. The facility qualifies as a "pollution control facility", defined in OAR 340-16-025(2)(g): "Installation or construction of facilities which will be used to detect, deter or prevent spills or unauthorized releases."

Prior to the installation of pollution control, the facility consisted of four cathodically protected tanks, with some spill and overfill prevention and monthly inventory control for leak detection.

To respond to Underground Storage Tank requirements under OAR 340-Division 150, the applicant installed:

1) For leak detection - A tank monitor system with alarm

Based on information currently available, the applicant is in compliance with all applicable DEQ regulations in that these tanks are permitted and fee payments are current.

The Department concludes that the costs claimed by the applicant (\$17,361) are eligible pursuant to the definition of a pollution control facility in ORS 468.155.

b. Eligible Cost Findings

In determining the percent of the eligible pollution control facility cost allocable to pollution control, the following factors from ORS 468.190 have been considered and analyzed as indicated:

1) The extent to which the facility is used to recover and convert waste products into a salable or usable commodity.

The equipment does not recover or convert waste products into a salable or usable commodity.

2) The estimated annual percent return on the investment in the facility.

There is no annual percent return on investment as the applicant claims no gross annual income from the facility.

3) The alternative methods, equipment and costs for achieving the same pollution control objective.

The applicant considered the method chosen to be the most cost effective. The methods chosen are acceptable for meeting the requirements of federal regulations.

4) Any related savings or increase in costs which occur or may occur as a result of the installation of the facility.

The applicant claims no savings or increase in costs as a result of the installation.

5) Any other factors which are relevant in establishing the portion of the actual cost of the facility properly allocable to pollution control.

There are no other factors to consider in establishing the actual cost of the facility properly allocable to prevention, control of reduction of pollution.

The actual cost of the facility properly allocable to pollution control is determined by using these factors as displayed in the following table:

	Eligible Facility Cost	Percent Allocable	Amount Allocable
Leak Detection: Tank monitor system	7,184	90% (1)	6,466
Labor and materials	10,177	100%	10,177
Total	\$17,361	96%	\$16,643

(1) The applicant's cost for a tank gauge system is reduced to 90% of cost based on a determination by the Department that this is the portion properly allocable to pollution control since the device can serve other purposes, for example, inventory control.

Application No. TC-4279 Page 4

5. <u>Summation</u>

- a. The facility was constructed in accordance with all regulatory requirements.
- b. The facility is eligible for tax credit certification in that the principal purpose of the claimed facility is to comply with requirements imposed by the federal Environmental Protection Agency to prevent pollution of soil, water and air. This is accomplished by preventing releases in soil, water or air. The facility qualifies as a "pollution control facility" defined in OAR 340-16-025(2)(g): "Installation or construction of facilities which will be used to detect, deter or prevent spills or unauthorized releases."
- c. The facility complies with DEQ statutes and rules.
- d. The portion of the facility cost that is properly allocable to pollution control is 96%.
- 6. <u>Director's Recommendation</u>

Based upon these findings, it is recommended that a Pollution Control Facility Certificate bearing the cost of \$17,361 with 96% allocated to pollution control, be issued for the facility claimed in Tax Credit Application No. TC-4279.

Stephanie Holmes (503) 229-6085 October 24, 1994

TAX RELIEF APPLICATION REVIEW REPORT

1. Applicant

Truax Harris Energy Company P.O. Box 607 Wilsonville, OR 97070

The applicant owns and operates Cardlock, a gasoline sales and service station on 11426 NE Sandy Boulevard in Portland, Oregon.

Application was made for tax credit for an air pollution control facility.

2. Description of Facility

The claimed facility is an above ground stage II vapor recovery balance type system. The system is composed of Husky nozzles, Dayco hoses, OPW adapters, OPW breakaway safety valves, piping and additional miscellaneous equipment. Installation of the facility prevents the escape of gasoline vapors into the atmosphere.

Claimed Facility Cost:

\$17,894.77

The applicant documented the facility costs.

3. Procedural Requirements

The facility is governed by ORS 468.150 through 468.190, and by OAR Chapter 340, Division 16.

The facility met all statutory deadlines in that:

Construction and installation of the facility was substantially completed on March 28, 1994. The facility was placed into operation on March 28, 1994. The application for final certification was submitted to the Department on September 6, 1994, within two years of substantial completion of the facility. The application was found to be complete on October 27, 1994.

4. <u>Evaluation of Application</u>

a. Rationale For Eligibility

The facility is eligible because the principal purpose of the facility is to comply with a requirement imposed by the Department to prevent the escape of gasoline vapors into the atmosphere. This is in accordance with OAR Chapter 340-22-400 to 403. The emission reduction is accomplished by the elimination of air contaminants as defined in ORS 468A.005.

The facility prevents gasoline vapors from escaping into the atmosphere. The face plate on the nozzle delivering the gasoline forms a tight seal on the fill pipe of the automobile gas tank. As the spout dispenses gasoline there is a small pressure increase created in the automobile gasoline tank due to the additional volume of the added fuel. This pressure increase drives the gasoline vapor from the automobile fuel tank through a secondary line in the nozzle back into the underground storage tank. The gasoline vapor travels through a secondary containment pipe surrounding the pipe the gasoline is dispensed through. The underground tank receives the additional volume in the form of gasoline vapors. There is no net pressure increase in the underground tank because the tank has already dispensed an equivalent volume of liquid gasoline. The vapor recovered is vapor that would otherwise escape from the automobile tank and the gasoline dispensing nozzle into the atmosphere.

b. Eligible Cost Findings

In determining the percent of the pollution control facility cost allocable to pollution control, the following factors from ORS 468.190 have been considered and analyzed as indicated:

1) The extent to which the facility is used to recover and convert waste products into a salable or usable commodity.

A portion of the waste product is converted into a salable or usable commodity consisting of recovered gasoline. It is the position of the Department that the volume of gasoline recovered is of an insignificant economic benefit.

2) The estimated annual percent return on the investment in the facility.

The applicant indicates in the application there is no income or savings from the facility, so there is no return on the investment.

3) The alternative methods, equipment and costs for achieving the same pollution control objective.

Stage II vapor recovery balance type systems are technically recognized as an acceptable method for controlling the emissions of vapors from gasoline service stations. 4) Any related savings or increase in costs which occur or may occur as a result of the installation of the facility.

The applicant indicated there were no savings or increase in costs as a result of the facility modification.

5) Any other factors which are relevant in establishing the portion of the actual cost of the facility properly allocable to the prevention, control or reduction of air pollution.

There are no other factors to consider in establishing the actual cost of the facility properly allocable to reduction of pollution. The principal purpose of the facility is to prevent a substantial quantity of air pollution.

The actual cost of the facility properly allocable to pollution control as determined by using these factors is 100%.

5. Summation

- a. The facility was constructed in accordance with all regulatory deadlines.
- b. The facility is eligible for final tax credit certification in that the principal purpose of the facility is to comply with a requirement imposed by the Department to reduce air pollution.
- c. The facility complies with Department rules.
- d. The portion of the facility cost that is properly allocable to pollution control is 100%.

6. Director's Recommendation

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Based upon these findings, it is recommended that a Pollution Control Facility Certificate bearing the cost of \$17,895 with 100% allocated to pollution control, be issued for the facility claimed in Tax Credit Application No. TC-4280.

Tonia C. Garbowsky: PRC Environmental Management, October 26, 1994

TAX RELIEF APPLICATION REVIEW REPORT

1. Applicant

Truax Harris Energy Company P.O. Box 607 Wilsonville, OR 97070

The applicant owns and operates Wilsonville Cardlock, a gasoline sales and service station on 30100 SW Parkway in Wilsonville, Oregon.

Application was made for tax credit for an air pollution control facility.

2. Description of Facility

The claimed facility is an above ground stage II vapor recovery balance type system. The system is composed of OPW nozzles, Dayco hoses, OPW adapters, OPW breakaway safety valves, piping and additional miscellaneous equipment. Installation of the facility prevents the escape of gasoline vapors into the atmosphere.

Claimed Facility Cost:

\$18,594.16

The applicant documented the facility costs.

3. Procedural Requirements

The facility is governed by ORS 468.150 through 468.190, and by OAR Chapter 340, Division 16.

The facility met all statutory deadlines in that:

Construction and installation of the facility was substantially completed on February 22, 1994. The facility was placed into operation on February 22, 1994. The application for final certification was submitted to the Department on September 6, 1994, within two years of substantial completion of the facility. The application was found to be complete on October 27, 1994.

4. Evaluation of Application

a. Rationale For Eligibility

The facility is eligible because the principal purpose of the facility is to comply with a requirement imposed by the Department to prevent the escape of gasoline vapors into the atmosphere. This is in accordance with OAR Chapter 340-22-400 to 403. The emission reduction is accomplished by the elimination of air contaminants as defined in ORS 468A.005.

The facility prevents gasoline vapors from escaping into the atmosphere. The face plate on the nozzle delivering the gasoline forms a tight seal on the fill pipe of the automobile gas tank. As the spout dispenses gasoline there is a small pressure increase created in the automobile gasoline tank due to the additional volume of the added fuel. This pressure increase drives the gasoline vapor from the automobile fuel tank through a secondary line in the nozzle back into the underground storage tank. The gasoline vapor travels through a secondary containment pipe surrounding the pipe the gasoline is dispensed through. The underground tank receives the additional volume in the form of gasoline vapors. There is no net pressure increase in the underground tank because the tank has already dispensed an equivalent volume of liquid gasoline. The vapor recovered is vapor that would otherwise escape from the automobile tank and the gasoline dispensing nozzle into the atmosphere.

b. Eligible Cost Findings

In determining the percent of the pollution control facility cost allocable to pollution control, the following factors from ORS 468.190 have been considered and analyzed as indicated:

1) The extent to which the facility is used to recover and convert waste products into a salable or usable commodity.

A portion of the waste product is converted into a salable or usable commodity consisting of recovered gasoline. It is the position of the Department that the volume of gasoline recovered is of an insignificant economic benefit.

2) The estimated annual percent return on the investment in the facility.

The applicant indicates in the application there is no income or savings from the facility, so there is no return on the investment.

3) The alternative methods, equipment and costs for achieving the same pollution control objective.

Stage II vapor recovery balance type systems are technically recognized as an acceptable method for controlling the emissions of vapors from gasoline service stations. 4) Any related savings or increase in costs which occur or may occur as a result of the installation of the facility.

The applicant indicated there were no savings or increase in costs as a result of the facility modification.

5) Any other factors which are relevant in establishing the portion of the actual cost of the facility properly allocable to the prevention, control or reduction of air pollution.

There are no other factors to consider in establishing the actual cost of the facility properly allocable to reduction of pollution. The principal purpose of the facility is to prevent a substantial quantity of air pollution.

The actual cost of the facility properly allocable to pollution control as determined by using these factors is 100%.

5. Summation

- a. The facility was constructed in accordance with all regulatory deadlines.
- b. The facility is eligible for final tax credit certification in that the principal purpose of the facility is to comply with a requirement imposed by the Department to reduce air pollution.
- c. The facility complies with Department rules.
- d. The portion of the facility cost that is properly allocable to pollution control is 100%.

6. Director's Recommendation

Based upon these findings, it is recommended that a Pollution Control Facility Certificate bearing the cost of \$18,594 with 100% allocated to pollution control, be issued for the facility claimed in Tax Credit Application No. TC-4281.

Tonia C. Garbowsky: PRC Environmental Management, October 26, 1994

TAX RELIEF APPLICATION REVIEW REPORT

1. Applicant

Truax Harris Energy Company P.O. Box 607 Wilsonville, OR 97070

The applicant owns and operates Arco, a gasoline sales and service station on 82nd and Liebe Streets in Portland, Oregon.

Application was made for tax credit for an air pollution control facility.

2. Description of Facility

The claimed facility is an above ground stage II vapor recovery balance type system. The system is composed of Husky nozzles, Dayco hoses, OPW adapters, OPW breakaway safety valves, piping and additional miscellaneous equipment. Installation of the facility prevents the escape of gasoline vapors into the atmosphere.

Claimed Facility Cost:

\$29,537.89

The applicant documented the facility costs.

3. Procedural Requirements

The facility is governed by ORS 468.150 through 468.190, and by OAR Chapter 340, Division 16.

The facility met all statutory deadlines in that:

Construction and installation of the facility was substantially completed on February 22, 1994. The facility was placed into operation on February 22, 1994. The application for final certification was submitted to the Department on September 6, 1994, within two years of substantial completion of the facility. The application was found to be complete on October 27, 1994.

4. Evaluation of Application

a. Rationale For Eligibility

The facility is eligible because the principal purpose of the facility is to comply with a requirement imposed by the Department to prevent the escape of gasoline vapors into the atmosphere. This is in accordance with OAR Chapter 340-22-400 to 403. The emission reduction is accomplished by the elimination of air contaminants as defined in ORS 468A.005.

The facility prevents gasoline vapors from escaping into the atmosphere. The face plate on the nozzle delivering the gasoline forms a tight seal on the fill pipe of the automobile gas tank. As the spout dispenses gasoline there is a small pressure increase created in the automobile gasoline tank due to the additional volume of the added fuel. This pressure increase drives the gasoline vapor from the automobile fuel tank through a secondary line in the nozzle back into the underground storage tank. The gasoline vapor travels through a secondary containment pipe surrounding the pipe the gasoline is dispensed through. The underground tank receives the additional volume in the form of gasoline vapors. There is no net pressure increase in the underground tank because the tank has already dispensed an equivalent volume of liquid gasoline. The vapor recovered is vapor that would otherwise escape from the automobile tank and the gasoline dispensing nozzle into the atmosphere.

b. Eligible Cost Findings

In determining the percent of the pollution control facility cost allocable to pollution control, the following factors from ORS 468.190 have been considered and analyzed as indicated:

1) The extent to which the facility is used to recover and convert waste products into a salable or usable commodity.

A portion of the waste product is converted into a salable or usable commodity consisting of recovered gasoline. It is the position of the Department that the volume of gasoline recovered is of an insignificant economic benefit.

2) The estimated annual percent return on the investment in the facility.

The applicant indicates in the application there is no income or savings from the facility, so there is no return on the investment.

3) The alternative methods, equipment and costs for achieving the same pollution control objective.

Stage II vapor recovery balance type systems are technically recognized as an acceptable method for controlling the emissions of vapors from gasoline service stations. 4) Any related savings or increase in costs which occur or may occur as a result of the installation of the facility.

The applicant indicated there were no savings or increase in costs as a result of the facility modification.

5) Any other factors which are relevant in establishing the portion of the actual cost of the facility properly allocable to the prevention, control or reduction of air pollution.

There are no other factors to consider in establishing the actual cost of the facility properly allocable to reduction of pollution. The principal purpose of the facility is to prevent a substantial quantity of air pollution.

The actual cost of the facility properly allocable to pollution control as determined by using these factors is 100%.

5. Summation

- a. The facility was constructed in accordance with all regulatory deadlines.
- b. The facility is eligible for final tax credit certification in that the principal purpose of the facility is to comply with a requirement imposed by the Department to reduce air pollution.
- c. The facility complies with Department rules.
- d. The portion of the facility cost that is properly allocable to pollution control is 100%.

6. Director's Recommendation

Based upon these findings, it is recommended that a Pollution Control Facility Certificate bearing the cost of \$29,538 with 100% allocated to pollution control, be issued for the facility claimed in Tax Credit Application No. TC-4282.

Tonia C. Garbowsky: PRC Environmental Management, October 26, 1994

TAX RELIEF APPLICATION REVIEW REPORT

1. <u>Applicant</u>

Truax Harris Energy Co. P.O. Box 607 Wilsonville, OR 97070

The applicant owns and operates a cardlock fueling station at 118 East Oak Street, Hillsboro, OR 97123, Facility No. 6710.

Application was made for a tax credit for a water pollution control facility involving underground storage tanks. The application also included related air quality Stage II vapor recovery equipment.

2. <u>Description of Claimed Facility</u>

The claimed pollution control facilities described in this application are a tank monitor system with alarm and Stage II vapor recovery equipment.

Claimed facility cost (Accountant's certification was provided) \$29,853

3. Procedural Requirements

The facility is governed by ORS 468.150 through 468.190, and by OAR Chapter 340, Division 16.

The facility was substantially completed on February 6, 1994 and placed into operation on February 6, 1994. The application for certification was submitted to the Department on September 6, 1994 and was considered to be complete and filed on October 24, 1994, within two years of the completion date of the project.

4. <u>Evaluation of Application</u>

a. The facility is eligible because the principal purpose of the facility is to comply with underground storage tank requirements imposed by the federal Environmental Protection Agency to prevent pollution of soil, water and air. This is accomplished by preventing releases into soil, water or air. The facility qualifies as a "pollution control facility", defined in OAR 340-16-025(2)(g): "Installation or construction of facilities which will be used to detect, deter or prevent spills or unauthorized releases."

Prior to the installation of pollution control, the facility consisted of three cathodically protected tanks with some spill and overfill prevention, some leak detection equipment and no Stage II vapor recovery system.

To respond to Air Quality regulations under OAR 340-22-400 - 403 and Underground Storage Tank requirements under OAR 340-Division 150, the applicant installed:

- 1) For leak detection A tank monitor system with alarm
- For VOC reduction Stage II vapor recovery piping, hoses & nozzles on
 ? dispensers.

Based on information currently available, the applicant is in compliance with all applicable DEQ regulations in that these tanks are permitted and fee payments are current. The facility is also in compliance with Stage II vapor recovery rules.

The Department concludes that the costs claimed by the applicant (\$29,853) are eligible pursuant to the definition of a pollution control facility in ORS 468.155.

b. Eligible Cost Findings

In determining the percent of the eligible pollution control facility cost allocable to pollution control, the following factors from ORS 468.190 have been considered and analyzed as indicated:

1) The extent to which the facility is used to recover and convert waste products into a salable or usable commodity.

The equipment does not recover or convert waste products into a salable or usable commodity.

2) The estimated annual percent return on the investment in the facility.

There is no annual percent return on investment as the applicant claims no gross annual income from the facility.

3) The alternative methods, equipment and costs for achieving the same pollution control objective.

The applicant considered the method chosen to be the most cost effective. The methods chosen are acceptable for meeting the requirements of federal regulations.

4) Any related savings or increase in costs which occur or may occur as a result of the installation of the facility.

The applicant claims no savings or increase in costs as a result of the installation.

5) Any other factors which are relevant in establishing the portion of the actual cost of the facility properly allocable to pollution control.

There are no other factors to consider in establishing the actual cost of the facility properly allocable to prevention, control of reduction of pollution.

The actual cost of the facility properly allocable to pollution control is determined by using these factors as displayed in the following table:

	Eligible Facility Cost	Percent Allocable	Amount Allocable
		<u> </u>	
<u>Leak Detection:</u> Tank monitor system	8,305	90% (1)	7,475
Stage II Vapor Recovery (incl. 9 hoses and nozzles			
on ? dispensers)	8,721	100%	8,721
Labor and materials	12,827	100%	12,827
Total	\$29,853	97%	\$29,023

Application No. TC-4283 Page 4

(1) The applicant's cost for a tank gauge system is reduced to 90% of cost based on a determination by the Department that this is the portion properly allocable to pollution control since the device can serve other purposes, for example, inventory control.

5. <u>Summation</u>

- a. The facility was constructed in accordance with all regulatory requirements.
- b. The facility is eligible for tax credit certification in that the principal purpose of the claimed facility is to comply with requirements imposed by the federal Environmental Protection Agency to prevent pollution of soil, water and air. This is accomplished by preventing releases in soil, water or air. The facility qualifies as a "pollution control facility" defined in OAR 340-16-025(2)(g): "Installation or construction of facilities which will be used to detect, deter or prevent spills or unauthorized releases."
- c. The facility complies with DEQ statutes and rules.
- d. The portion of the facility cost that is properly allocable to pollution control is 97%.

6. Director's Recommendation

Based upon these findings, it is recommended that a Pollution Control Facility Certificate bearing the cost of \$29,853 with 97% allocated to pollution control, be issued for the facility claimed in Tax Credit Application No. TC-4283.

Stephanie Holmes (503) 229-6085 October 24, 1994

TAX RELIEF APPLICATION REVIEW REPORT

1. <u>Applicant</u>

Truax Harris Energy Co. P.O. Box 607 Wilsonville, OR 97070

The applicant owns and operates a retail service station at 10415 SW Parkway, Portland, OR 97225, Facility No. 7165.

Application was made for a tax credit for a water pollution control facility involving underground storage tanks. The application also included related air quality Stage II vapor recovery equipment.

2. Description of Claimed Facility

The claimed pollution control facilities described in this application are a tank monitor system with alarm and Stage II vapor recovery equipment.

Claimed facility cost (Accountant's certification was provided) \$36,059

3. Procedural Requirements

The facility is governed by ORS 468.150 through 468.190, and by OAR Chapter 340, Division 16.

The facility was substantially completed on January 18, 1994 and placed into operation on January 18, 1994. The application for certification was submitted to the Department on September 6, 1994 and was considered to be complete and filed on October 24, 1994, within two years of the completion date of the project.

4. Evaluation of Application

a. The facility is eligible because the principal purpose of the facility is to comply with underground storage tank requirements imposed by the federal Environmental Protection Agency to prevent pollution of soil, water and air. This is accomplished by preventing releases into soil, water or air. The facility qualifies as a "pollution control facility", defined in OAR 340-16-025(2)(g): "Installation or construction of facilities which will be used to detect, deter or prevent spills or unauthorized releases."

Prior to the installation of pollution control, the facility consisted of some spill and overfill prevention, monthly inventory control for leak detection and no Stage II vapor recovery system.

To respond to Air Quality regulations under OAR 340-22-400 - 403 and Underground Storage Tank requirements under OAR 340-Division 150, the applicant installed:

- 1) For leak detection A tank monitor system with alarm
- 2) For VOC reduction Stage II vapor recovery piping, hoses & nozzles on 6 dispensers.

Based on information currently available, the applicant is in compliance with all applicable DEQ regulations in that these tanks are permitted and fee payments are current. The facility is also in compliance with Stage II vapor recovery rules.

The Department concludes that the costs claimed by the applicant (\$36,059) are eligible pursuant to the definition of a pollution control facility in ORS 468.155.

b. Eligible Cost Findings

In determining the percent of the eligible pollution control facility cost allocable to pollution control, the following factors from ORS 468.190 have been considered and analyzed as indicated:

1) The extent to which the facility is used to recover and convert waste products into a salable or usable commodity.

The equipment does not recover or convert waste products into a salable or usable commodity.

2) The estimated annual percent return on the investment in the facility.

There is no annual percent return on investment as the applicant claims no gross annual income from the facility.

3) The alternative methods, equipment and costs for achieving the same pollution control objective.

The applicant considered the method chosen to be the most cost effective. The methods chosen are acceptable for meeting the requirements of federal regulations.

4) Any related savings or increase in costs which occur or may occur as a result of the installation of the facility.

The applicant claims no savings or increase in costs as a result of the installation.

5) Any other factors which are relevant in establishing the portion of the actual cost of the facility properly allocable to pollution control.

There are no other factors to consider in establishing the actual cost of the facility properly allocable to prevention, control of reduction of pollution.

The actual cost of the facility properly allocable to pollution control is determined by using these factors as displayed in the following table:

	Eligible Facility Cost	Percent Allocable	Amount Allocable
Leak Detection: Tank monitor system	8,305	90% (1)	7,475
Stage II Vapor Recovery (incl. 10 hoses and nozzles	S		
on 6 dispensers)	9,277	100%	9,277
Labor and materials	18,477	100%	18,477
Total	\$36,059	98%	\$35,229

Application No. TC-4284 Page 4

(1) The applicant's cost for a tank gauge system is reduced to 90% of cost based on a determination by the Department that this is the portion properly allocable to pollution control since the device can serve other purposes, for example, inventory control.

5. <u>Summation</u>

- a. The facility was constructed in accordance with all regulatory requirements.
- b. The facility is eligible for tax credit certification in that the principal purpose of the claimed facility is to comply with requirements imposed by the federal Environmental Protection Agency to prevent pollution of soil, water and air. This is accomplished by preventing releases in soil, water or air. The facility qualifies as a "pollution control facility" defined in OAR 340-16-025(2)(g): "Installation or construction of facilities which will be used to detect, deter or prevent spills or unauthorized releases."
- c. The facility complies with DEQ statutes and rules.
- d. The portion of the facility cost that is properly allocable to pollution control is 98%.

6. Director's Recommendation

Based upon these findings, it is recommended that a Pollution Control Facility Certificate bearing the cost of \$36,059 with 98% allocated to pollution control, be issued for the facility claimed in Tax Credit Application No. TC-4284.

Stephanie Holmes (503) 229-6085 October 24, 1994

TAX RELIEF APPLICATION REVIEW REPORT

1. <u>Applicant</u>

Truax Harris Energy Co. P.O. Box 607 Wilsonville, OR 97070

The applicant owns and operates a retail service station at 3442 NE 82nd Ave., Portland OR 97220, Facility No. 6632.

Application was made for a tax credit for a water pollution control facility involving underground storage tanks. The application also included related air quality Stage II vapor recovery equipment.

2. Description of Claimed Facility

The claimed pollution control facilities described in this application are a tank monitor system with alarm and Stage II vapor recovery equipment.

Claimed facility cost (Accountant's certification was provided) \$36,267

3. <u>Procedural Requirements</u>

The facility is governed by ORS 468.150 through 468.190, and by OAR Chapter 340, Division 16.

The facility was substantially completed on February 2, 1994 and placed into operation on February 2, 1994. The application for certification was submitted to the Department on September 6, 1994 and was considered to be complete and filed on October 24, 1994, within two years of the completion date of the project.

4. <u>Evaluation of Application</u>

a. The facility is eligible because the principal purpose of the facility is to comply with underground storage tank requirements imposed by the federal Environmental Protection Agency to prevent pollution of soil, water and air. This is accomplished by preventing releases into soil, water or air. The facility qualifies as a "pollution control facility", defined in OAR 340-16-025(2)(g): "Installation or construction of facilities which will be used to detect, deter or prevent spills or unauthorized releases."

Prior to the installation of pollution control, the facility consisted of some spill and overfill prevention, monthly inventory control for leak detection, and no Stage II vapor recovery system.

To respond to Air Quality regulations under OAR 340-22-400 - 403 and Underground Storage Tank requirements under OAR 340-Division 150, the applicant installed:

- 1) For leak detection A tank monitor system with alarm
- 2) For VOC reduction Stage II vapor recovery piping, hoses & nozzles on six dispensers.

Based on information currently available, the applicant is in compliance with all applicable DEQ regulations in that these tanks are permitted and fee payments are current. The facility is also in compliance with Stage II vapor recovery rules.

The Department concludes that the costs claimed by the applicant (\$36,267) are eligible pursuant to the definition of a pollution control facility in ORS 468.155.

b. Eligible Cost Findings

In determining the percent of the eligible pollution control facility cost allocable to pollution control, the following factors from ORS 468.190 have been considered and analyzed as indicated:

1) The extent to which the facility is used to recover and convert waste products into a salable or usable commodity.

The equipment does not recover or convert waste products into a salable or usable commodity.

2) The estimated annual percent return on the investment in the facility.

There is no annual percent return on investment as the applicant claims no gross annual income from the facility.

3) The alternative methods, equipment and costs for achieving the same pollution control objective.

The applicant considered the method chosen to be the most cost effective. The methods chosen are acceptable for meeting the requirements of federal regulations.

4) Any related savings or increase in costs which occur or may occur as a result of the installation of the facility.

The applicant claims no savings or increase in costs as a result of the installation.

5) Any other factors which are relevant in establishing the portion of the actual cost of the facility properly allocable to pollution control.

There are no other factors to consider in establishing the actual cost of the facility properly allocable to prevention, control of reduction of pollution.

The actual cost of the facility properly allocable to pollution control is determined by using these factors as displayed in the following table:

	Eligible Facility Cost	Percent Allocable	Amount Allocable
	<u> </u>	<u></u>	<u></u>
Leak Detection: Tank monitor system	7,184	90% (1)	6,466
Stage II Vapor Recovery (incl. 10 hoses and nozzle			
on 6 dispensers)	8,594	100%	8,594
Labor and materials	20,489	100%	20,489
Total \$	36,267	98%	35,549

Application No. TC-4285 Page 4

(1) The applicant's cost for a tank gauge system is reduced to 90% of cost based on a determination by the Department that this is the portion properly allocable to pollution control since the device can serve other purposes, for example, inventory control.

5. <u>Summation</u>

- a. The facility was constructed in accordance with all regulatory requirements.
- b. The facility is eligible for tax credit certification in that the principal purpose of the claimed facility is to comply with requirements imposed by the federal Environmental Protection Agency to prevent pollution of soil, water and air. This is accomplished by preventing releases in soil, water or air. The facility qualifies as a "pollution control facility" defined in OAR 340-16-025(2)(g): "Installation or construction of facilities which will be used to detect, deter or prevent spills or unauthorized releases."
- c. The facility complies with DEQ statutes and rules.
- d. The portion of the facility cost that is properly allocable to pollution control is 98%.

6. Director's Recommendation

Based upon these findings, it is recommended that a Pollution Control Facility Certificate bearing the cost of \$36,267 with 98% allocated to pollution control, be issued for the facility claimed in Tax Credit Application No. TC-4285.

Stephanie Holmes (503) 229-6085 October 24, 1994

TAX RELIEF APPLICATION REVIEW REPORT

1. <u>Applicant</u>

Truax Harris Energy Co. P.O. Box 607 Wilsonville, OR 97070

The applicant owns and operates a cardlock fueling station at 9225 Wilsonville Road, Wilsonville, OR 97070, Facility No. 7553.

Application was made for a tax credit for a water pollution control facility involving underground storage tanks. The application also included related air quality Stage II vapor recovery equipment.

2. <u>Description of Claimed Facility</u>

The claimed pollution control facilities described in this application are a tank monitor system with alarm and Stage Π vapor recovery equipment.

Claimed facility cost (Accountant's certification was provided) \$58,017

3. <u>Procedural Requirements</u>

The facility is governed by ORS 468.150 through 468.190, and by OAR Chapter 340, Division 16.

The facility was substantially completed on January 24, 1994 and placed into operation on January 24, 1994. The application for certification was submitted to the Department on September 6, 1994 and was considered to be complete and filed on October 24, 1994, within two years of the completion date of the project.

4. <u>Evaluation of Application</u>

a. The facility is eligible because the principal purpose of the facility is to comply with underground storage tank requirements imposed by the federal Environmental Protection Agency to prevent pollution of soil, water and air. This is accomplished by preventing releases into soil, water or air. The facility qualifies as a "pollution control facility", defined in OAR 340-16-025(2)(g): "Installation or construction of facilities which will be used to detect, deter or prevent spills or unauthorized releases."

Prior to the installation of pollution control, the facility consisted of some spill and overfill prevention, monthly inventory control for leak detection, and no Stage II vapor recovery system.

To respond to Air Quality regulations under OAR 340-22-400 - 403 and Underground Storage Tank requirements under OAR 340-Division 150, the applicant installed:

- 1) For leak detection A tank monitor system with alarm
- 2) For VOC reduction Stage II vapor recovery piping, hoses & nozzles on two dispensers.

Based on information currently available, the applicant is in compliance with all applicable DEQ regulations in that these tanks are permitted and fee payments are current. The facility is also in compliance with Stage II vapor recovery rules.

The Department concludes that the costs claimed by the applicant (\$58,017) are eligible pursuant to the definition of a pollution control facility in ORS 468.155.

b. Eligible Cost Findings

In determining the percent of the eligible pollution control facility cost allocable to pollution control, the following factors from ORS 468.190 have been considered and analyzed as indicated:

1) The extent to which the facility is used to recover and convert waste products into a salable or usable commodity.

The equipment does not recover or convert waste products into a salable or usable commodity.

2) The estimated annual percent return on the investment in the facility.

There is no annual percent return on investment as the applicant claims no gross annual income from the facility.

3) The alternative methods, equipment and costs for achieving the same pollution control objective.

The applicant considered the method chosen to be the most cost effective. The methods chosen are acceptable for meeting the requirements of federal regulations.

4) Any related savings or increase in costs which occur or may occur as a result of the installation of the facility.

The applicant claims no savings or increase in costs as a result of the installation.

5) Any other factors which are relevant in establishing the portion of the actual cost of the facility properly allocable to pollution control.

There are no other factors to consider in establishing the actual cost of the facility properly allocable to prevention, control of reduction of pollution.

The actual cost of the facility properly allocable to pollution control is determined by using these factors as displayed in the following table:

	Eligible Facility Cost	Percent Allocable	Amount Allocable
			
Leak Detection: Tank monitor system	9,401	90% (1)	8,461
Stage II Vapor Recovery			
(incl. 12 hoses and nozzles	5		
on two dispensers)	20,106	100%	20,106
Labor and materials	28,510	100%	28,510
	<u> </u>	2 <u></u>	······································
Total	\$58,017	98%	\$57,077

Application No. TC-4286 Page 4

(1) The applicant's cost for a tank gauge system is reduced to 90% of cost based on a determination by the Department that this is the portion properly allocable to pollution control since the device can serve other purposes, for example, inventory control.

5. <u>Summation</u>

- a. The facility was constructed in accordance with all regulatory requirements.
- b. The facility is eligible for tax credit certification in that the principal purpose of the claimed facility is to comply with requirements imposed by the federal Environmental Protection Agency to prevent pollution of soil, water and air. This is accomplished by preventing releases in soil, water or air. The facility qualifies as a "pollution control facility" defined in OAR 340-16-025(2)(g): "Installation or construction of facilities which will be used to detect, deter or prevent spills or unauthorized releases."
- c. The facility complies with DEQ statutes and rules.
- d. The portion of the facility cost that is properly allocable to pollution control is 98%.

6. <u>Director's Recommendation</u>

Based upon these findings, it is recommended that a Pollution Control Facility Certificate bearing the cost of \$58,017 with 98% allocated to pollution control, be issued for the facility claimed in Tax Credit Application No. TC-4286.

Stephanie Holmes (503) 229-6085 October 24, 1994

TAX RELIEF APPLICATION REVIEW REPORT

1. Applicant

Obie's Import Repair, Inc. 1114 S.W. Frazer Ave Pendleton, OR 97801

The applicant owns and operates an automotive repair shop in Pendleton, Oregon.

Application was made for tax credit for an air pollution control facility which is owned by the applicant.

2. <u>Description of Facility</u>

Facility is a machine which removes and cleans auto air conditioner coolant. The machine is self contained and includes pumps, tubing, valves and filters which rid the spent coolant of oil, excess air, water, acids and contaminant particles.

The applicant has identified the useful life of the equipment to be five years.

Claimed Facility Cost: \$1,995 (Costs have been documented)

3. <u>Procedural Requirements</u>

The facility is governed by ORS 468.150 through 468.190, and by OAR Chapter 340, Division 16.

Installation of the facility was substantially completed on September 6, 1994. The facility was placed into operation on September 6, 1994. The application for final certification was submitted to the Department on September 22, 1994. The application was found to be complete on October 25, 1994, within two years of substantial completion of the facility.

4. Evaluation of Application

a. The facility is eligible because the sole purpose of the facility is to reduce air pollution. This reduction is accomplished by capturing and/or recycling air contaminants, as defined in ORS 468.275.

Eligible equipment must be certified by Underwriters Laboratory (UL) as meeting the requirements and specifications of UL1963 and the Society of Automotive Engineers (SAE) standards, J2210, or other requirements and specifications determined by the Department as being equivalent. The facility meets these requirements.

b. Eligible Cost Findings

In determining the percent of the facility cost allocable to pollution control, the following factors from ORS 468.190 have been considered and analyzed as indicated:

1) The extent to which the facility is used to recover and convert waste products into a salable or usable commodity.

The recovery and recycling machine serves two purposes. It prevents the release of spent auto A/C coolant to the environment, thereby meeting Department regulations requiring capture of this air contaminant. Second, it provides a means to recover and clean waste coolant for reuse as an auto A/C coolant.

2) The estimated annual percent return on the investment in the facility.

The percent return on investment from facility use was calculated using coolant cost and retrieval rate data from the applicant and generic cost of facility operations estimated by the Department.

Specifically, the applicant estimated the the cost to applicant of virgin coolant at \$7.00/pound. The applicant estimated an annual coolant recovery rate of 60 pounds.

In estimating the operating costs for use of the recovery and recycling machine, the Department developed a standardized

Application No. TC-4292 Page #3

methodology which considers the following factors:

- · Electricity consumption of machine
- Additional labor to operate machine
- Machine maintenance costs

Based on these considerations, the applicant estimated the return on investment to be less than zero, in that machine operating costs exceeded income from the use of the machine.

3) The alternative methods, equipment and costs for achieving the same pollution control objective.

The applicant has identified no alternatives.

4) Any related savings or increase in costs which occur or may occur as a result of the installation of the facility.

There are savings from the facility to recover and reuse coolant. The applicant may use the recycled coolant in customer vehicles. In this case the savings are tied to the displaced cost of virgin coolant. Alternately, the applicant could sell the coolant to a second shop where the coolant is used. In this case the savings to the applicant are tied to the sales price of recycled coolant.

However, for this applicant increases in business operations and maintenance costs exceeded facility savings. These cost estimates are discussed in 2) above.

5) Any other factors which are relevant in establishing the portion of the actual cost of the facility properly allocable to the prevention, control or reduction of air, water or noise pollution or solid or hazardous waste or to recycling or properly disposing of used oil.

A distinct portion of this automobile air conditioning coolant recovery and recycling equipment makes an insignificant contribution to the principal purpose of the claimed facility. This coolant recovery equipment has the capability to return (recharge) coolant to automobile air conditioning systems. Recharge capabilities in coolant recovery and recycling

Application No. TC-4292 Page #4

equipment is not required by state or federal law. The additional expense incurred in the purchase of equipment with recharge capabilities is not allocable to pollution control. The Department estimates the additional expense incurred is \$700.00.

The actual cost of the facility properly allocable to pollution control as determined by using these factors is 65%.

- 5. <u>Summation</u>
 - a. The facility was constructed in accordance with all regulatory deadlines.
 - b. The facility is eligible for tax credit certification in that the sole purpose of the facility is to reduce air pollution.
 - c. The facility complies with DEQ statutes and rules.
 - d. The portion of the facility cost that is properly allocable to pollution control is 65%.

6. Director's Recommendation

Based upon these findings, it is recommended that a Pollution Control Facility Certificate bearing the cost of \$1995 with 65% allocated to pollution control, be issued for the facility claimed in Tax Credit Application No. 4292.

Dennis E. Cartier SJO Consulting Engineers

October 25, 1994

TAX RELIEF APPLICATION REVIEW REPORT

1. Applicant

Truax Harris Energy Co. P.O. Box 607 Wilsonville, OR 97070

The applicant owns and operates a retail service station at 18777 SE McLoughlin Blvd., Milwaukie, OR 97222, Facility No. 6547.

Application was made for a tax credit for a water pollution control facility involving underground storage tanks. The application also included related air quality Stage II vapor recovery equipment.

2. Description of Claimed Facility

The claimed pollution control facilities described in this application are a tank monitor system with alarm and Stage II vapor recovery equipment.

Claimed facility cost (Accountant's certification was provided) \$22,066

3. <u>Procedural Requirements</u>

The facility is governed by ORS 468.150 through 468.190, and by OAR Chapter 340, Division 16.

The facility was substantially completed on June 21, 1994 and placed into operation on June 21, 1994. The application for certification was submitted to the Department on September 22, 1994 and was considered to be complete and filed on October 24, 1994, within two years of the completion date of the project.

4. <u>Evaluation of Application</u>

a. The facility is eligible because the principal purpose of the facility is to comply with underground storage tank requirements imposed by the federal Environmental Protection Agency to prevent pollution of soil, water and air. This is accomplished by preventing releases into soil, water or air. The facility qualifies as a "pollution control facility", defined in OAR 340-16-025(2)(g): "Installation or construction of facilities which will be used to detect, deter or prevent spills or unauthorized releases."

Prior to the installation of pollution control, the facility consisted of some spill and overfill prevention, monthly inventory control for leak detection, and no Stage II vapor recovery system.

To respond to Air Quality regulations under OAR 340-22-400 - 403 and Underground Storage Tank requirements under OAR 340-Division 150, the applicant installed:

- 1) For leak detection A tank monitor system with alarm
- 2) For VOC reduction Stage II vapor recovery piping, hoses & nozzles on six dispensers.

Based on information currently available, the applicant is in compliance with all applicable DEQ regulations in that these tanks are permitted and fee payments are current. The facility is also in compliance with Stage II vapor recovery rules.

The Department concludes that the costs claimed by the applicant (\$22,066) are eligible pursuant to the definition of a pollution control facility in ORS 468.155.

b. Eligible Cost Findings

In determining the percent of the eligible pollution control facility cost allocable to pollution control, the following factors from ORS 468.190 have been considered and analyzed as indicated:

1) The extent to which the facility is used to recover and convert waste products into a salable or usable commodity.

The equipment does not recover or convert waste products into a salable or usable commodity.

2) The estimated annual percent return on the investment in the facility.

There is no annual percent return on investment as the applicant claims no gross annual income from the facility.

3) The alternative methods, equipment and costs for achieving the same pollution control objective.

The applicant considered the method chosen to be the most cost effective. The methods chosen are acceptable for meeting the requirements of federal regulations.

4) Any related savings or increase in costs which occur or may occur as a result of the installation of the facility.

The applicant claims no savings or increase in costs as a result of the installation.

5) Any other factors which are relevant in establishing the portion of the actual cost of the facility properly allocable to pollution control.

There are no other factors to consider in establishing the actual cost of the facility properly allocable to prevention, control of reduction of pollution.

The actual cost of the facility properly allocable to pollution control is determined by using these factors as displayed in the following table:

	Eligible Facility Cost	Percent Allocable	Amount Allocable
	<u></u>		a <u></u>
Leak Detection: Tank monitor system	4,196	90% (1)	3,776
Stage II Vapor Recovery (incl. 12 hoses and nozzle	s		
on 6 dispensers)	11,017	100%	11,017
Labor and materials	6,853	100%	6,853
Total \$	22,066	98%	21,646

(1) The applicant's cost for a tank gauge system is reduced to 90% of cost based on a determination by the Department that this is the portion properly allocable to pollution control since the device can serve other purposes, for example, inventory control.

5. <u>Summation</u>

- a. The facility was constructed in accordance with all regulatory requirements.
- b. The facility is eligible for tax credit certification in that the principal purpose of the claimed facility is to comply with requirements imposed by the federal Environmental Protection Agency to prevent pollution of soil, water and air. This is accomplished by preventing releases in soil, water or air. The facility qualifies as a "pollution control facility" defined in OAR 340-16-025(2)(g): "Installation or construction of facilities which will be used to detect, deter or prevent spills or unauthorized releases."
- c. The facility complies with DEQ statutes and rules.
- d. The portion of the facility cost that is properly allocable to pollution control is 98%.

6. Director's Recommendation

Based upon these findings, it is recommended that a Pollution Control Facility Certificate bearing the cost of \$22,066 with 98% allocated to pollution control, be issued for the facility claimed in Tax Credit Application No. TC-4293.

Stephanie Holmes (503) 229-6085 October 24, 1994

TAX RELIEF APPLICATION REVIEW REPORT

1. <u>Applicant</u>

Truax Harris Energy Co. P.O. Box 607 Wilsonville, OR 97070

The applicant owns and operates a retail service station at 4829 NE Martin Luther King Blvd., Portland, OR 97211, Facility No. 6630.

Application was made for a tax credit for a pollution control facility involving underground storage tanks. The application included related air quality Stage II vapor recovery equipment.

2. Description of Claimed Facility

The claimed pollution control facility described in this application is Stage II vapor recovery equipment.

Claimed facility cost (Accountant's certification was provided) \$28,237

3. <u>Procedural Requirements</u>

The facility is governed by ORS 468.150 through 468.190, and by OAR Chapter 340, Division 16.

The facility was substantially completed on June 28, 1993 and placed into operation on June 28, 1993. The application for certification was submitted to the Department on September 22, 1994 and was considered to be complete and filed on October 24, 1994, within two years of the completion date of the project.

4. <u>Evaluation of Application</u>

a. The facility is eligible because the principal purpose of the facility is to comply with underground storage tank requirements imposed by the federal Environmental Protection Agency to prevent pollution of soil, water and air. This is accomplished by preventing releases into soil, water or air. The facility qualifies as a "pollution control facility", defined in OAR 340-16-025(2)(g): "Installation or construction of facilities which will be used to detect, deter or prevent spills or unauthorized releases."

Prior to the installation of pollution control, the facility lacked a Stage II vapor recovery system.

To respond to Air Quality regulations under OAR 340-22-400 - 403 and Underground Storage Tank requirements under OAR 340-Division 150, the applicant installed:

1) For VOC reduction - Stage II vapor recovery piping, hoses & nozzles on 6 dispensers.

Based on information currently available, the applicant is in compliance with all applicable DEQ regulations in that these tanks are permitted and fee payments are current. The facility is also in compliance with Stage II vapor recovery rules.

The Department concludes that the costs claimed by the applicant (\$28,237) are eligible pursuant to the definition of a pollution control facility in ORS 468.155.

b. Eligible Cost Findings

In determining the percent of the eligible pollution control facility cost allocable to pollution control, the following factors from ORS 468.190 have been considered and analyzed as indicated:

1) The extent to which the facility is used to recover and convert waste products into a salable or usable commodity.

The equipment does not recover or convert waste products into a salable or usable commodity.

2) The estimated annual percent return on the investment in the facility.

There is no annual percent return on investment as the applicant claims no gross annual income from the facility.

3) The alternative methods, equipment and costs for achieving the same pollution control objective.

The applicant considered the method chosen to be the most cost effective. The methods chosen are acceptable for meeting the requirements of federal regulations.

4) Any related savings or increase in costs which occur or may occur as a result of the installation of the facility.

The applicant claims no savings or increase in costs as a result of the installation.

5) Any other factors which are relevant in establishing the portion of the actual cost of the facility properly allocable to pollution control.

There are no other factors to consider in establishing the actual cost of the facility properly allocable to prevention, control of reduction of pollution.

The actual cost of the facility properly allocable to pollution control is determined by using these factors as displayed in the following table:

	Eligible Facility Cost	Percent Allocable	Amount Allocable
Stage II Vapor Recovery (incl. 10 hoses and nozz on 6 dispensers)	zles 8,515	100%	8,515
Labor and materials	19,722	100%	19,722
Total	\$28,237	100%	\$28,237

5. <u>Summation</u>

- a. The facility was constructed in accordance with all regulatory requirements.
- b. The facility is eligible for tax credit certification in that the principal purpose of the claimed facility is to comply with requirements imposed by the federal Environmental Protection Agency to prevent pollution of soil, water and air. This is accomplished by preventing releases in soil, water or air. The facility qualifies as a "pollution control facility" defined in OAR 340-16-025(2)(g): "Installation or construction of facilities which will be used to detect, deter or prevent spills or unauthorized releases."
- c. The facility complies with DEQ statutes and rules.
- d. The portion of the facility cost that is properly allocable to pollution control is 100%.

6. Director's Recommendation

Based upon these findings, it is recommended that a Pollution Control Facility Certificate bearing the cost of \$28,237 with 100% allocated to pollution control, be issued for the facility claimed in Tax Credit Application No. TC-4294.

Stephanie Holmes (503) 229-6085 October 24, 1994

State of Oregon Department of Environmental Quality

TAX RELIEF APPLICATION REVIEW REPORT

1. Applicant

Truax Harris Energy Company P.O. Box 607 Wilsonville, OR 97070

The applicant owns and operates a gasoline sales and service station on 3510 Pacific, in Forest Grove, Oregon.

Application was made for tax credit for an air pollution control facility.

2. Description of Facility

The claimed facility is an above ground vacuum assist type system. The system is composed of OPW nozzles, Dayco hoses, OPW adapters, OPW breakaway safety valves, piping and additional miscellaneous equipment. Installation of the facility prevents the escape of gasoline vapors into the atmosphere.

Claimed Facility Cost:

\$35,754.93

The applicant documented the facility costs.

3. <u>Procedural Requirements</u>

The facility is governed by ORS 468.150 through 468.190, and by OAR Chapter 340, Division 16.

The facility met all statutory deadlines in that:

Construction and installation of the facility was substantially completed on May 21, 1994. The facility was placed into operation on May 21, 1994. The application for final certification was submitted to the Department on September 22, 1994, within two years of substantial completion of the facility. The application was found to be complete on October 27, 1994.

4. Evaluation of Application

a. Rationale For Eligibility

The facility is eligible because the principal purpose of the facility is to comply with a requirement imposed by the Department to prevent the escape of gasoline vapors into the atmosphere. This is in accordance with OAR Chapter 340-22-400 to 403. The emission reduction is accomplished by the elimination of air contaminants as defined in ORS 468A.005.

The facility prevents gasoline vapors from escaping into the atmosphere. The face plate on the nozzle delivering the gasoline forms a tight seal on the fill pipe of the automobile gas tank. As the spout dispenses gasoline there is a small pressure increase created in the automobile gasoline tank due to the additional volume of the added fuel. This pressure increase drives the gasoline vapor from the automobile fuel tank through a secondary line in the nozzle back into the underground storage tank. The gasoline vapor travels through a secondary containment pipe surrounding the pipe the gasoline is dispensed through. The underground tank receives the additional volume in the form of gasoline vapors. There is no net pressure increase in the underground tank because the tank has already dispensed an equivalent volume of liquid gasoline. The vapor recovered is vapor that would otherwise escape from the automobile tank and the gasoline dispensing nozzle into the atmosphere.

b. Eligible Cost Findings

In determining the percent of the pollution control facility cost allocable to pollution control, the following factors from ORS 468.190 have been considered and analyzed as indicated:

1) The extent to which the facility is used to recover and convert waste products into a salable or usable commodity.

A portion of the waste product is converted into a salable or usable commodity consisting of recovered gasoline. It is the position of the Department that the volume of gasoline recovered is of an insignificant economic benefit.

2) The estimated annual percent return on the investment in the facility.

The applicant indicates in the application there is no income or savings from the facility, so there is no return on the investment.

3) The alternative methods, equipment and costs for achieving the same pollution control objective.

Stage II vapor recovery balance type systems are technically recognized as an acceptable method for controlling the emissions of vapors from gasoline service stations. 4) Any related savings or increase in costs which occur or may occur as a result of the installation of the facility.

The applicant indicated there were no savings or increase in costs as a result of the facility modification.

5) Any other factors which are relevant in establishing the portion of the actual cost of the facility properly allocable to the prevention, control or reduction of air pollution.

There are no other factors to consider in establishing the actual cost of the facility properly allocable to reduction of pollution. The principal purpose of the facility is to prevent a substantial quantity of air pollution.

The actual cost of the facility properly allocable to pollution control as determined by using these factors is 100%.

5. Summation

- a. The facility was constructed in accordance with all regulatory deadlines.
- b. The facility is eligible for final tax credit certification in that the principal purpose of the facility is to comply with a requirement imposed by the Department to reduce air pollution.
- c. The facility complies with Department rules.
- d. The portion of the facility cost that is properly allocable to pollution control is 100%.

6. Director's Recommendation

Based upon these findings, it is recommended that a Pollution Control Facility Certificate bearing the cost of \$35,755 with 100% allocated to pollution control, be issued for the facility claimed in Tax Credit Application No. TC-4295.

Tonia C. Garbowsky: PRC Environmental Management, October 26, 1994

State of Oregon Department of Environmental Quality

TAX RELIEF APPLICATION REVIEW REPORT

1. <u>Applicant</u>

Ware's Auto Body, Inc 885 N. First Place Hermiston, OR 97838

The applicant owns and operates an auto body repair shop in Hermiston, Oregon.

Application was made for tax credit for an air pollution control facility which is owned by the applicant.

2. <u>Description of Facility</u>

Facility is a machine which removes and cleans auto air conditioner coolant. The machine is self contained and includes pumps, tubing, valves and filters which rid the spent coolant of oil, excess air, water, acids and contaminant particles.

The applicant has identified the useful life of the equipment to be seven years.

Claimed Facility Cost: \$1,995 (Costs have been documented)

3. <u>Procedural Requirements</u>

The facility is governed by ORS 468.150 through 468.190, and by OAR Chapter 340, Division 16.

Installation of the facility was substantially completed on July 6, 1994. The facility was placed into operation on July 6, 1994. The application for final certification was submitted to the Department on September 26, 1994. The application was found to be complete on October 28, 1994, within two years of substantial completion of the facility.

4. Evaluation of Application

a. The facility is eligible because the sole purpose of the facility is to reduce air pollution. This reduction is accomplished by capturing and/or recycling air contaminants, as defined in ORS 468.275.

Eligible equipment must be certified by Underwriters Laboratory (UL) as meeting the requirements and specifications of UL1963 and the Society of Automotive Engineers (SAE) standards, J2210, or other requirements and specifications determined by the Department as being equivalent. The facility meets these requirements.

b. Eligible Cost Findings

In determining the percent of the facility cost allocable to pollution control, the following factors from ORS 468.190 have been considered and analyzed as indicated:

1) The extent to which the facility is used to recover and convert waste products into a salable or usable commodity.

The recovery and recycling machine serves two purposes. It prevents the release of spent auto A/C coolant to the environment, thereby meeting Department regulations requiring capture of this air contaminant. Second, it provides a means to recover and clean waste coolant for reuse as an auto A/C coolant.

2) The estimated annual percent return on the investment in the facility.

The percent return on investment from facility use was calculated using coolant cost and retrieval rate data from the applicant and generic cost of facility operations estimated by the Department.

Specifically, the applicant estimated the income to applicant from the sale of recycled coolant at \$8.00/pound. The applicant estimated an annual coolant recovery rate of 60 pounds.

In estimating the operating costs for use of the recovery and

Application No. TC-4297 Page #3

recycling machine, the Department developed a standardized methodology which considers the following factors:

- Electricity consumption of machine
- Additional labor to operate machine
- Machine maintenance costs

Based on these considerations, the applicant estimated the return on investment to be less than zero, in that machine operating costs exceeded income from the use of the machine.

3) The alternative methods, equipment and costs for achieving the same pollution control objective.

The applicant has identified no alternatives.

4) Any related savings or increase in costs which occur or may occur as a result of the installation of the facility.

There are savings from the facility to recover and reuse coolant. The applicant may use the recycled coolant in customer vehicles. In this case the savings are tied to the displaced cost of virgin coolant. Alternately, the applicant could sell the coolant to a second shop where the coolant is used. In this case the savings to the applicant are tied to the sales price of recycled coolant.

However, for this applicant increases in business operations and maintenance costs exceeded facility savings. These cost estimates are discussed in 2) above.

5) Any other factors which are relevant in establishing the portion of the actual cost of the facility properly allocable to the prevention, control or reduction of air, water or noise pollution or solid or hazardous waste or to recycling or properly disposing of used oil.

A distinct portion of this automobile air conditioning coolant recovery and recycling equipment makes an insignificant contribution to the principal purpose of the claimed facility. This coolant recovery equipment has the capability to return (recharge) coolant to automobile air conditioning systems. Recharge capabilities in coolant recovery and recycling equipment is not required by state or federal law. The additional expense incurred in the purchase of equipment with recharge capabilities is not allocable to pollution control. The Department estimates the additional expense incurred is \$700.00.

The actual cost of the facility properly allocable to pollution control as determined by using these factors is 65%.

- 5. <u>Summation</u>
 - a. The facility was constructed in accordance with all regulatory deadlines.
 - b. The facility is eligible for tax credit certification in that the sole purpose of the facility is to reduce air pollution.
 - c. The facility complies with DEQ statutes and rules.
 - d. The portion of the facility cost that is properly allocable to pollution control is 65%.

6. <u>Director's Recommendation</u>

Based upon these findings, it is recommended that a Pollution Control Facility Certificate bearing the cost of \$1995 with 65% allocated to pollution control, be issued for the facility claimed in Tax Credit Application No. 4297.

Dennis E. Cartier SJO Consulting Engineers

October 28, 1994

State of Oregon Department of Environmental Quality

TAX RELIEF APPLICATION REVIEW REPORT

1. Applicant

Winnoco, Inc. P O Box 954 La Grande, OR 97850

The applicant owns and operates a retail gas station at 2614 Island Ave., La Grande, OR, Facility No. 1615.

Application was made for a tax credit for a water pollution control facility involving underground storage tanks.

2. <u>Description of Claimed Facility</u>

The claimed pollution control facilities described in this application are a tank gauge system and line leak detectors installed on one existing underground storage tank system.

Claimed facility cost (Documentation of cost was provided) \$16,990

3. <u>Procedural Requirements</u>

The facility is governed by ORS 468.150 through 468.190, and by OAR Chapter 340, Division 16.

The facility was substantially completed on December 1, 1993 and placed into operation on December 1, 1993. The application for certification was submitted to the Department on September 26, 1994 was considered to be complete and filed on October 24, 1994, within two years of the completion date of the project.

4. <u>Evaluation of Application</u>

a. The facility is eligible because the principal purpose of the facility is to comply with underground storage tank requirements imposed by the federal Environmental Protection Agency to prevent pollution of soil and water. This is accomplished by preventing releases into soil and water. The facility qualifies as a "pollution control facility", defined in OAR 340-16-025(2)(g): "Installation or construction of facilities which will be used to detect, deter or prevent spills or unauthorized releases."

Prior to the installation of pollution control, the facility consisted of four corrosion protected tank and piping systems with spill and overfill prevention, but no leak detection equipment.

To respond to Underground Storage Tank requirements under OAR 340-Division 150, the applicant installed:

1) For leak detection - Tank gauge system and line leak detectors.

Based on information currently available, the applicant is in compliance with all applicable DEQ regulations in that these tanks are permitted and fee payments are current.

The Department concludes that the costs claimed by the applicant (\$16,990) are eligible pursuant to the definition of a pollution control facility in ORS 468.155.

b. Eligible Cost Findings

In determining the percent of the eligible pollution control facility cost allocable to pollution control, the following factors from ORS 468.190 have been considered and analyzed as indicated:

1) The extent to which the facility is used to recover and convert waste products into a salable or usable commodity.

The equipment does not recover or convert waste products into a salable or usable commodity.

2) The estimated annual percent return on the investment in the facility.

There is no annual percent return on investment as the applicant claims no gross annual income from the facility.

3) The alternative methods, equipment and costs for achieving the same pollution control objective.

The applicant considered the methods chosen to be the most cost effective. The methods chosen are acceptable for meeting the requirements of federal regulations.

4) Any related savings or increase in costs which occur or may occur as a result of the installation of the facility.

The applicant claims no savings or increase in costs as a result of the installation.

5) Any other factors which are relevant in establishing the portion of the actual cost of the facility properly allocable to pollution control.

There are no other factors to consider in establishing the actual cost of the facility properly allocable to prevention, control of reduction of pollution.

The actual cost of the facility properly allocable to pollution control is determined by using these factors as displayed in the following table:

	Eligible Facility Cost	Percent Allocable	Amount Allocable
Leak Detection:		<u> </u>	
Tank gauge system	4,985	90 (1)	4,487
Line leak detectors	4,995	100	4,995
Labor and materials	7,010	100	7,010
	······································	<u></u>	
Total	\$16,990	97%	\$16,492

(1) The applicant's cost for a tank gauge system is reduced to 90% of cost based on a determination by the Department that this is the portion properly allocable to pollution control since the device can serve other purposes, for example, inventory control.

5. <u>Summation</u>

- a. The facility was constructed in accordance with all regulatory requirements.
- b. The facility is eligible for tax credit certification in that the principal purpose of the claimed facility is to comply with requirements imposed by the federal Environmental Protection Agency to prevent pollution of soil, water and air. This is accomplished by preventing releases in soil, water or air. The facility qualifies as a "pollution control facility" defined in OAR 340-16-025(2)(g): "Installation or construction of facilities which will be used to detect, deter or prevent spills or unauthorized releases."
- c. The facility complies with DEQ statutes and rules.
- d. The portion of the facility cost that is properly allocable to pollution control is 97%.

6. Director's Recommendation

Based upon these findings, it is recommended that a Pollution Control Facility Certificate bearing the cost of \$16,990 with 97% allocated to pollution control, be issued for the facility claimed in Tax Credit Application No. TC-4298.

Barbara J. Anderson (503) 229-5870 October 24, 1994

State of Oregon Department of Environmental Quality

TAX RELIEF APPLICATION REVIEW REPORT

1. <u>Applicant</u>

Carmichael Columbia Oil Inc. 510 Marine Drive Astoria, OR 97103

The applicant owns and operates a commercial cardlock station at Hwy 30 & Abbott Rd., Knappa, OR, Facility No. 11273.

Application was made for a tax credit for a water pollution control facility involving underground storage tanks. The application also included related air quality Stage I vapor recovery and Stage II vapor recovery piping.

2. Description of Claimed Facility

The claimed pollution control facilities described in this application are three doublewall fiberglass tanks and piping (one tank is 2-compartment), spill containment basins, tank gauge system, automatic shutoff valves, line leak detectors, sumps, oil/water separator and Stage I and II vapor recovery piping.

Claimed facility cost (Accountant's certification was provided)

\$119,744

The Department concludes that the eligible facility cost for the project is \$99,220. This represents a difference of \$20,524 from the applicant's claimed cost of \$119,744 due to the fact that the facility is a new installation (no tanks existed at that location prior to the project) and labor and materials to install tanks and piping, estimated at \$20,524 by the applicant, are not eligible for a tax credit pursuant to the definition of a pollution control facility in ORS 468.155.

3. <u>Procedural Requirements</u>

The facility is governed by ORS 468.150 through 468.190, and by OAR Chapter 340, Division 16.

The facility was substantially completed on November 3, 1993 and placed into operation on November 3, 1993. The application for certification was submitted to the Department on September 26, 1994 was considered to be complete and filed on October 24, 1994, within two years of the completion date of the project.

4. <u>Evaluation of Application</u>

a. The facility is eligible because the principal purpose of the facility is to comply with underground storage tank requirements imposed by the federal Environmental Protection Agency to prevent pollution of soil, water and air. This is accomplished by preventing releases into soil, water or air. The facility qualifies as a "pollution control facility", defined in OAR 340-16-025(2)(g): "Installation or construction of facilities which will be used to detect, deter or prevent spills or unauthorized releases."

Prior to the installation of pollution control, there was no motor fuel storage facility on the property.

To respond to Air Quality regulations under OAR 340-22-400 - 403 and Underground Storage Tank requirements under OAR 340-Division 150, the applicant installed:

- 1) For corrosion protection Doublewall fiberglass tanks and piping.
- 2) For spill and overfill prevention Spill containment basins, sumps, oil/water separator and automatic shutoff valves.
- 3) For leak detection Tank gauge system and line leak detectors.
- 4) For VOC reduction Stage I vapor recovery and Stage II vapor recovery piping.

Based on information currently available, the applicant is in compliance with all applicable DEQ regulations in that these tanks are permitted and fee payments are current.

b. Eligible Cost Findings

In determining the percent of the eligible pollution control facility cost allocable to pollution control, the following factors from ORS 468.190 have been considered and analyzed as indicated:

1) The extent to which the facility is used to recover and convert waste products into a salable or usable commodity.

The equipment does not recover or convert waste products into a salable or usable commodity.

2) The estimated annual percent return on the investment in the facility.

There is no annual percent return on investment as the applicant claims no gross annual income from the facility.

3) The alternative methods, equipment and costs for achieving the same pollution control objective.

The applicant did not indicate that alternatives were considered. The methods chosen are acceptable for meeting the requirements of federal regulations.

4) Any related savings or increase in costs which occur or may occur as a result of the installation of the facility.

The applicant claims no savings or increase in costs as a result of the installation.

5) Any other factors which are relevant in establishing the portion of the actual cost of the facility properly allocable to pollution control.

There are no other factors to consider in establishing the actual cost of the facility properly allocable to prevention, control of reduction of pollution.

The actual cost of the facility properly allocable to pollution control is determined by using these factors as displayed in the following table:

Application No. TC-4301 Page 4

	Eligible Facility Cost	Percent Allocable	Amount Allocable
Corrosion Protection:	<u></u>		
Doublewall fiberglass			
tanks and piping	\$46,908	46% (1)	\$21,578
Spill & Overfill Prevention:			
Spill containment basins	835	100	835
Oil/water separator	3,991	100	3,991
Sumps	4,476	100	4,476
Automatic shutoff valves	926	100	926
Leak Detection:			
Tank gauge system	2,600	90 (2)	2,340
Line leak detectors	1,184	100	1,184
Stage I vapor recovery			
& Stage П piping	2,158	100	2,158
Labor and materials	36,142	100	36,142
Total	\$99,220	74%	\$73,630

- (1) The Department has determined the percent allocable on the cost of a corrosion protected tank and piping system by using a formula based on the difference in cost between the protected tank and piping system and an equivalent bare steel system as a percent of the protected system. Applying this formula to the costs presented by the applicant, where the protected system cost is \$46,908 and the bare steel system is \$25,500, the resulting portion of the eligible tank and piping cost allocable to pollution control is 46%.
- (2) The applicant's cost for a tank gauge system is reduced to 90% of cost based on a determination by the Department that this is the portion properly allocable to pollution control since the device can serve other purposes, for example, inventory control.

5. <u>Summation</u>

- a. The facility was constructed in accordance with all regulatory requirements.
- b. The facility is eligible for tax credit certification in that the principal purpose of the claimed facility is to comply with requirements imposed by the federal Environmental Protection Agency to prevent pollution of soil, water and air. This is accomplished by preventing releases in soil, water or air. The facility qualifies as a "pollution control facility" defined in OAR 340-16-025(2)(g): "Installation or construction of facilities which will be used to detect, deter or prevent spills or unauthorized releases."
- c. The facility complies with DEQ statutes and rules.
- d. The portion of the facility cost that is properly allocable to pollution control is 74%.
- 6. <u>Director's Recommendation</u>

Based upon these findings, it is recommended that a Pollution Control Facility Certificate bearing the cost of \$99,220 with 74% allocated to pollution control, be issued for the facility claimed in Tax Credit Application No. TC-4301.

Barbara J. Anderson (503) 229-5870 October 24, 1994

Application No. TC-4306

State of Oregon Department of Environmental Quality

RECLAIMED PLASTIC TAX CREDIT TAX RELIEF APPLICATION REVIEW REPORT

1. Applicant

WWDD Partners 230 N. W. 10th Portland, OR 97209

> The applicant is an investment partnership which has purchased a truck to be leased to Denton Plastic a broker and processor of recyclable plastic. The claimed equipment will be used by Denton Plastic exclusively to transport recyclable plastic.

Application was made for Reclaimed Plastic Tax Credit.

2. <u>Description of Equipment, Machinery or Personal Property</u>

The claimed equipment consisting of:

One Freightliner truck model FL-70, Serial Number 577548 with a 24 foot van box

The claimed facility investment costs consisted of:

Truck body	\$32,623
24 foot van box	7,515
2000 lb liftgate	1,945
Claimed Facility cost	\$42,083

An invoice and accountant's review statement were provided.

3. Procedural Requirements

The investment is governed by ORS 468.925 through 468.965, and by OAR Chapter 340, Division 17.

The investment met all statutory deadlines in that:

a. The request for preliminary certification was received on September 16, 1994. The preliminary application was filed complete and 30 day waiting period was waived on September 17, 1994.

- b. The request for preliminary certification was approved on October 17, 1994.
- c. The investment was made on September 27, 1994, prior to June 30, 1995.
- d. The request for final certification was submitted on October 13, 1994 and was filed complete on October 28, 1994.

4. Evaluation of Application

- a. The investment is eligible because the equipment is necessary to process reclaimed plastic.
- b. Allocable Cost Findings

In determining the portion of the investment costs properly allocable to reclaiming and recycling plastic material, the following factors from ORS 468.960 have been considered and analyzed as indicated:

 The extent to which the claimed collection, transportation, processing or manufacturing process is used to convert reclaimed plastic into a salable or usable commodity.

This factor is applicable because the sole purpose of this truck is to transport recyclable plastic to a plastic processor where it is processed into a feed stock to be used to manufacture reclaimed plastic products. The waste plastic transported by this truck is generated by persons other than the applicant.

2) The alternative methods, equipment and costs for achieving the same objective.

The applicant investigated other alternatives and determined that this equipment is the most efficient and productive from an economic standpoint.

3) Any other factors which are relevant in establishing the portion of the actual cost of the investment properly allocable to the collection, transportation or processing of reclaimed plastic

Application No. TC-4306 Page 3

or to the manufacture of a reclaimed plastic product.

No other factors were considered relevant.

The actual cost of the investment properly allocable to processing reclaimed plastic as determined by using these factors is 100%.

5. <u>Summation</u>

- a. The investment was made in accordance with all regulatory deadlines.
- b. The investment is eligible for final tax credit certification in that the equipment is necessary to manufacture a reclaimed plastic product.
- c. The qualifying business complies with DEQ statutes and rules.
- d. The portion of the investment cost that is properly allocable to reclaiming and recycling plastic is 100%.

6. Director's Recommendation

Based upon these findings, it is recommended that a Reclaimed Plastic Tax Credit Certificate bearing the cost of \$42,083 with 100% allocated to reclaiming plastic material, be issued for the investment claimed in Tax Credit Application No. TC-4306.

WRB:wrb wp51\tax\tc4306rr.sta (503) 229-5934 October 28, 1994

Application No. TC-4309 Page 1

State of Oregon Department of Agriculture

TAX RELIEF APPLICATION REVIEW REPORT

1. Applicant

Dale A. Eisiminger 66577 Brooks Road Imbler OR 97841

The applicant owns and operates a grass seed farm operation in Union County, Oregon.

Application was made for tax credit for an air pollution control equipment.

2. Description of Claimed Facility

The equipment described in this application is a Case IH Model 770 offset disk, located at 66577 Brooks Road, Imbler, Oregon. The equipment is owned by the applicant.

Claimed equipment cost: \$6,500 (The applicant provided copies of his canceled check.)

3. <u>Description of Farm Operation Plan to Reduce Open Field Burning.</u>

The applicant has 300 acres of perennial grass seed under cultivation. In each of the last three years the applicant has open field burned all 300 acres. Even the approximately 60 acres of perennial grass seed removed from production each year was open field burned because equipment was not available to penetrate the unburned grass seed stubble and straw residue.

The purchased heavy duty cover crop disk will be used to destroy perennial grass seed fields at the end of their production life. Straw will be baled off then the fields will be disked and plowed without open field burning. By enabling the applicant to chop up grass seed sod and stubble the disk will eliminate open field burning of approximately 60 acres annually.

4. Procedural Requirements

The equipment is governed by ORS 468.150 through 468.190, and by OAR Chapter 340, Division 16. The equipment has met all statutory deadlines in that:

Purchase of the equipment was substantially completed on December 15, 1992. The application was submitted on October 20, 1994; and the application for final certification was found to be complete on October 26, 1994. The application was filed within two years of substantial completion of the equipment.

Application No. TC-4309 Page 2

5. Evaluation of Application

- a. The equipment is eligible under ORS 468.150 because the equipment is an approved alternative method for field sanitation and straw utilization and disposal that reduces a substantial quantity of air pollution. This reduction is accomplished by reduction of air contaminants, defined in ORS 468A.005; by reducing the maximum acreage to be open burned in the Willamette Valley as required in OAR 340-26-013; and, the facility's qualification as a "pollution control facility", defined in oAR 340-16-025(2)(f)
 A): "Equipment, facilities, and land for gathering, densifying, processing, handling, storing, transporting and incorporating grass straw or straw based products which will result in reduction of open field burning."
- b. Eligible Cost Findings

In determining the percent of the pollution control equipment cost allocable to pollution control, the following factors from ORS 468.190 have been considered and analyzed as indicated:

1. The extent to which the equipment is used to recover and convert waste products into a salable or usable commodity.

The equipment does not recover or convert waste products into a salable or usable commodity.

2. The estimated annual percent return on the investment in the equipment.

There is no annual percent return on the investment as applicant claims no gross annual income.

3. The alternative methods, equipment and costs for achieving the same pollution control objective.

The method chosen is an accepted method for reduction of air pollution. The method is one of the least costly, most effective methods of reducing air pollution.

4. Any related savings or increase in costs which occur or may occur as a result of the purchase of the equipment.

There is no savings or increase in costs as a result of the equipment.

5. Any other factors which are relevant in establishing the portion of the actual cost of the equipment properly allocable to the prevention, control or reduction of air pollution.

The applicant states that the disk will be used for general farm use 20% of the time it is in use.

The actual cost of the equipment properly allocable to pollution control as determined by using these factors is 80%.

Application No. TC-4309 Page 3

6. <u>Summation</u>

- a. The equipment was constructed in accordance with all regulatory deadlines.
- b. The equipment is eligible under ORS 468.150 as an approved alternative method for field sanitation and straw utilization and disposal that reduces a substantial quantity of air pollution as defined in ORS 468A.005
- c. The equipment complies with DEQ statutes and rules.
- d. The portion of the equipment that is properly allocable to pollution control is 80%.

7. The Department of Agriculture's Recommendation

Based upon these findings, it is recommended that a Pollution Control Facility Certificate bearing the cost of \$6,500, with 80% allocated to pollution control, be issued for the equipment claimed in Tax Credit Application Number TC-4309.

Jim Britton, Manager Smoke Management Program Natural Resources Division Oregon Department of Agriculture (503) 378-6792 FAX: (503) 378-2590

JB:bk4309 October 26, 1994

State of Oregon Department of Environmental Quality

TAX RELIEF APPLICATION REVIEW REPORT

1. <u>Applicant</u>

Western Stations Co. P O Box 5969 Portland, OR 97228-5969

The applicant owns and operates a retail gas station at 363 SE Baseline, Hillsboro, OR, Facility No. 6203.

Application was made for a tax credit for a water pollution control facility involving underground storage tanks. The application also included related air quality Stage I vapor recovery and Stage II vapor recovery equipment.

2. Description of Claimed Facility

The claimed pollution control facilities described in this application are three fiberglass clad steel tanks, doublewall flexible piping, spill containment basins, tank gauge system with builtin line leak detection, overfill alarm, sumps, automatic shutoff valves and Stage I and II vapor recovery equipment.

Claimed facility cost (Accountant's certification was provided) \$133,507

3. <u>Procedural Requirements</u>

The facility is governed by ORS 468.150 through 468.190, and by OAR Chapter 340, Division 16.

The facility was substantially completed on March 25, 1994 and placed into operation on March 25, 1994. The application for certification was submitted to the Department on October 20, 1994 was considered to be complete and filed on October 24, 1994, within two years of the completion date of the project.

- 4. Evaluation of Application
 - a. The facility is eligible because the principal purpose of the facility is to comply with underground storage tank requirements imposed by the federal Environmental Protection Agency to prevent pollution of soil, water and air. This is accomplished by preventing releases into soil, water or air. The facility qualifies as a "pollution control facility", defined in OAR 340-16-025(2)(g): "Installation or construction of facilities which will be used to detect, deter or prevent spills or unauthorized releases."

Prior to the installation of pollution control, the facility consisted of four steel tanks and piping with no corrosion protection and no spill and overfill prevention or leak detection equipment.

To respond to Air Quality regulations under OAR 340-22-400 - 403 and Underground Storage Tank requirements under OAR 340-Division 150, the applicant installed:

- 1) For corrosion protection Fiberglass clad steel tanks and doublewall flexible piping.
- 2) For spill and overfill prevention Spill containment basins, overfill alarm, automatic shutoff valves and sumps.
- 3) For leak detection Tank gauge system with builtin line leak detectors.
- 4) For VOC reduction Stage I and II vapor recovery piping, hoses & nozzles on 4 dispensers.

Based on information currently available, the applicant is in compliance with all applicable DEQ regulations in that these tanks are permitted and fee payments are current. The facility is also in compliance with Stage II vapor recovery rules.

The Department concludes that the costs claimed by the applicant (\$133,507) are eligible pursuant to the definition of a pollution control facility in ORS 468.155.

b. Eligible Cost Findings

In determining the percent of the eligible pollution control facility cost allocable to pollution control, the following factors from ORS 468.190 have been considered and analyzed as indicated:

1) The extent to which the facility is used to recover and convert waste products into a salable or usable commodity.

The equipment does not recover or convert waste products into a salable or usable commodity.

2) The estimated annual percent return on the investment in the facility.

There is no annual percent return on investment as the applicant claims no gross annual income from the facility.

3) The alternative methods, equipment and costs for achieving the same pollution control objective.

The applicant did not indicate that alternatives were considered. The methods chosen are acceptable for meeting the requirements of federal regulations.

4) Any related savings or increase in costs which occur or may occur as a result of the installation of the facility.

The applicant claims no savings or increase in costs as a result of the installation.

5) Any other factors which are relevant in establishing the portion of the actual cost of the facility properly allocable to pollution control.

There are no other factors to consider in establishing the actual cost of the facility properly allocable to prevention, control of reduction of pollution.

The actual cost of the facility properly allocable to pollution control is determined by using these factors as displayed in the following table:

Application No. TC-4310 Page 4

	Eligible Facility Cost	Percent Allocable	Amount Allocable
Corrosion Protection: Fiberglass clad steel tanks & doublewall piping	\$37,851	72% (1)	\$27,253
Spill & Overfill Prevention Spill containment basins Automatic shutoff valves Overfill alarms Sumps	1,044 515 193 6,026	100 100 100 100	1,044 515 193 6,026
Leak Detection: Tank gauge system with line leak detectors	7,712	90 (2)	6,941
Stage I & II vapor recovery (incl. 8 hozes and nozzles on 4 dispensers)		100	9,807
Labor and materials	70,359	100	70,359
Total	\$133,507	91%	\$122,138

- (1) The Department has determined the percent allocable on the cost of a corrosion protected tank and piping system by using a formula based on the difference in cost between the protected tank and piping system and an equivalent bare steel system as a percent of the protected system. Applying this formula to the costs presented by the applicant, where the protected system cost is \$37,851 and the bare steel system is \$10,775, the resulting portion of the eligible tank and piping cost allocable to pollution control is 72%.
- (2) The applicant's cost for a tank gauge system is reduced to 90% of cost based on a determination by the Department that this is the portion properly allocable to pollution control since the device can serve other purposes, for example, inventory control.

5. <u>Summation</u>

- a. The facility was constructed in accordance with all regulatory requirements.
- b. The facility is eligible for tax credit certification in that the principal purpose of the claimed facility is to comply with requirements imposed by the federal Environmental Protection Agency to prevent pollution of soil, water and air. This is accomplished by preventing releases in soil, water or air. The facility qualifies as a "pollution control facility" defined in OAR 340-16-025(2)(g): "Installation or construction of facilities which will be used to detect, deter or prevent spills or unauthorized releases."
- c. The facility complies with DEQ statutes and rules.
- d. The portion of the facility cost that is properly allocable to pollution control is 91%.

6. Director's Recommendation

Based upon these findings, it is recommended that a Pollution Control Facility Certificate bearing the cost of \$133,507 with 91% allocated to pollution control, be issued for the facility claimed in Tax Credit Application No. TC-4310.

Barbara J. Anderson (503) 229-5870 October 24, 1994

State of Oregon Department of Environmental Quality

TAX RELIEF APPLICATION REVIEW REPORT

1. <u>Applicant</u>

Truax Harris Energy Co. P O Box 607 Wilsonville, OR 97070

The applicant owns and operates a retail gas station at 17455 SW TV Hwy, Aloha, OR, Facility No. 7166.

Application was made for a tax credit for a water pollution control facility involving underground storage tanks. The application also included related air quality Stage I vapor recovery and Stage II vapor recovery equipment.

The applicant has claimed equipment in this application that replaced equipment claimed in prior tax credit (TC-2587) issued in 1990. The equipment was replaced before the end of its useful life. See Section 2 below for an explanation of the claimed cost adjustment. TC-2587 will be submitted for revocation.

2. <u>Description of Claimed Facility</u>

The claimed pollution control facilities described in this application are three doublewall fiberglass tanks and flexible doublewall piping, spill containment basins, upgrade for tank gauge system, overfill alarm, monitoring wells, sumps and Stage I and II vapor recovery equipment.

Claimed facility cost (Accountant's certification was provided) \$113,136

The Department concludes that the eligible facility cost for the project is \$112,399. This represents a difference of \$737 from the applicant's claimed cost of \$113,136 due to an adjustment made by the Department to the claimed cost of spill containment basins that replaced the same equipment claimed in a prior tax credit (TC-2587). The previously claimed equipment was replaced before the end of its useful life and the adjustment reflects the amount of the tax credit remaining pursuant to Oregon Administrative Rules 340-16-025(3)(g)(B). See attached Worksheet 1.

3. Procedural Requirements

The facility is governed by ORS 468.150 through 468.190, and by OAR Chapter 340, Division 16.

The facility was substantially completed on February 5, 1994 and placed into operation on February 5, 1994. The application for certification was submitted to the Department on October 21, 1994 and was considered to be complete and filed on November 10, 1994, within two years of the completion date of the project.

4. Evaluation of Application

a. The facility is eligible because the principal purpose of the facility is to comply with underground storage tank requirements imposed by the federal Environmental Protection Agency to prevent pollution of soil, water and air. This is accomplished by preventing releases into soil, water or air. The facility qualifies as a "pollution control facility", defined in OAR 340-16-025(2)(g): "Installation or construction of facilities which will be used to detect, deter or prevent spills or unauthorized releases."

Prior to the installation of pollution control, the facility consisted of three registered tanks and piping with no corrosion protection or Stage I and II vapor recovery.

To respond to Air Quality regulations under OAR 340-22-400 - 403 and Underground Storage Tank requirements under OAR 340-Division 150, the applicant installed:

- 1) For corrosion protection Doublewall fiberglass tanks and flexible doublewall piping.
- 2) For spill and overfill prevention Spill containment basins, sumps and overfill alarm.

Application No. TC-4311 Page 3

- 3) For leak detection Upgrade for tank gauge system and monitoring wells.
- 4) For VOC reduction Stage I and II vapor recovery piping, hoses & nozzles on 6 dispensers.

Based on information currently available, the applicant is in compliance with all applicable DEQ regulations in that these tanks are permitted and fee payments are current. The facility is also in compliance with Stage II vapor recovery rules.

b. Eligible Cost Findings

In determining the percent of the eligible pollution control facility cost allocable to pollution control, the following factors from ORS 468.190 have been considered and analyzed as indicated:

1) The extent to which the facility is used to recover and convert waste products into a salable or usable commodity.

The equipment does not recover or convert waste products into a salable or usable commodity.

2) The estimated annual percent return on the investment in the facility.

There is no annual percent return on investment as the applicant claims no gross annual income from the facility.

3) The alternative methods, equipment and costs for achieving the same pollution control objective.

The applicant considered the methods chosen to be the most cost effective. The methods chosen are acceptable for meeting the requirements of federal regulations.

4) Any related savings or increase in costs which occur or may occur as a result of the installation of the facility.

The applicant claims no savings or increase in costs as a result of the installation.

5) Any other factors which are relevant in establishing the portion of the actual cost of the facility properly allocable to pollution control.

There are no other factors to consider in establishing the actual cost of the facility properly allocable to prevention, control of reduction of pollution.

The actual cost of the facility properly allocable to pollution control is determined by using these factors as displayed in the following table:

· · ·	Eligible Facility Cost	Percent Allocable	Amount Allocable
Corrosion Protection: Doublewall fiberglass tanks and piping	\$37,996	64% (1)	\$24,317
Spill & Overfill Prevention: Spill containment basins Sumps	367 1,863	100 100	367 1,863
<u>Leak Detection:</u> Tank gauge upgrade w/alarr Monitoring wells	n 3,755 450	90 (2) 100	3,380 450
Stage I & II vapor recovery (incl. 12 hozes and nozzle, on 6 dispensers)		100	6,800
Labor and materials	61,168	100	61,168
Total	\$112,399	87%	\$98,345

(1) The Department has determined the percent allocable on the cost of a corrosion protected tank and piping system by using a formula based on the difference in cost between the protected tank and piping system and an equivalent bare steel system as a percent of the protected system. Applying this formula to the costs presented by the applicant, where the protected system cost is \$37,996 and the bare steel system is \$13,700, the resulting portion of the eligible tank and piping cost allocable to pollution control is 64%.

Application No. TC-4311 Page 5

(2) The applicant's cost for a tank gauge system is reduced to 90% of cost based on a determination by the Department that this is the portion properly allocable to pollution control since the device can serve other purposes, for example, inventory control.

5. <u>Summation</u>

- a. The facility was constructed in accordance with all regulatory requirements.
- b. The facility is eligible for tax credit certification in that the principal purpose of the claimed facility is to comply with requirements imposed by the federal Environmental Protection Agency to prevent pollution of soil, water and air. This is accomplished by preventing releases in soil, water or air. The facility qualifies as a "pollution control facility" defined in OAR 340-16-025(2)(g): "Installation or construction of facilities which will be used to detect, deter or prevent spills or unauthorized releases."
- c. The facility complies with DEQ statutes and rules.
- d. The portion of the facility cost that is properly allocable to pollution control is 87%.

6. <u>Director's Recommendation</u>

Based upon these findings, it is recommended that a Pollution Control Facility Certificate bearing the cost of \$112,399 with 87% allocated to pollution control, be issued for the facility claimed in Tax Credit Application No. TC-4311.

Barbara J. Anderson (503) 229-5870 November 14, 1994

WORKSHEET 1. PRIOR TAX CREDIT ADJUSTMENT TO CLAIMED COST

TRUAX HARRIS ENERGY CO. Current Application: TC-4311

Prior Tax Credit: TC-2587 \$2,315, 100% amount allocated

DETERMINATION OF TAX CREDIT REMAINING TO BE CLAIMED WHERE THE EQUIPMENT IS REPLACED BEFORE THE END OF ITS USEFUL LIFE (OAR 340-16-025(3)(g)(B)

A. CLAIM DETAIL: Spill containment basins, 5 on prior and 3 on current tax credit. (Prorating is used when the number of items of equipment claimed is different in prior and current tax credits.)

	PRIOR	PRIOR PRORATED	CURRENT
	TAX CREDIT	TO 3	CLAIM
CLAIM DETAIL	5 BASINS	(60%)	3 BASINS
TOTAL CLAIM - 100% (not reduced by any percentages)	\$2,315	\$1,389	\$1,779
Cost of spill basins	815	489	627
Installation cost	1,500	900	1,152 (1)
Amount claimed on prior credit	\$579	\$347	
100% amount allocable	579	347	
Amount of prior credit remaining (\$2315 - 579)	1,736	1042	
(1) Estimate of installation cost where precise amount not available:			
Percent increase in price of basins (\$627 / 489) =	128%		
Applied to installation cost (\$900 x 128%) =	\$1,152		
B. TAX CREDIT REMAINING TO BE CLAIMED:			
TOTAL AMOUNT	\$1,042 (*)		
Spill containment basins	367		
Installation cost	675		
C. DIFFERENCE FROM APPLICANT'S CLAIMED COST (\$1779 - 1042) =		\$737	
			=

(*) This is the full amount eligible to be claimed on the current tax credit application. The actual tax credit taken would be no greater than 50 percent of that amount.

State of Oregon Department of Environmental Quality

TAX RELIEF APPLICATION REVIEW REPORT

1. <u>Applicant</u>

Truax Harris Energy Co. P O Box 607 Wilsonville, OR 97070

The applicant owns and operates a retail gas station at 6820 N. Fessenden, Portland, OR, Facility No. 6709.

Application was made for a tax credit for a water pollution control facility involving underground storage tanks. The application also included related air quality Stage I vapor recovery and Stage II vapor recovery equipment.

2. Description of Claimed Facility

The claimed pollution control facilities described in this application are three doublewall fiberglass tanks and flexible doublewall piping, tank gauge system, monitoring wells, sumps and Stage I and II vapor recovery equipment.

Claimed facility cost (Accountant's certification was provided)

\$121,967

3. <u>Procedural Requirements</u>

The facility is governed by ORS 468.150 through 468.190, and by OAR Chapter 340, Division 16.

The facility was substantially completed on April 1, 1993 and placed into operation on April 1, 1993. The application for certification was submitted to the Department on October 21, 1994 and was considered to be complete and filed on November 10, 1994, within two years of the completion date of the project.

4. Evaluation of Application

a. The facility is eligible because the principal purpose of the facility is to comply with underground storage tank requirements imposed by the federal Environmental Protection Agency to prevent pollution of soil, water and air. This is accomplished by preventing releases into soil, water or air. The facility qualifies as a "pollution control facility", defined in OAR 340-16-025(2)(g): "Installation or construction of facilities which will be used to detect, deter or prevent spills or unauthorized releases."

Prior to the installation of pollution control, the facility consisted of five registered tanks and piping with no corrosion protection, but with spill and overfill prevention and turbine leak detectors.

To respond to Air Quality regulations under OAR 340-22-400 - 403 and Underground Storage Tank requirements under OAR 340-Division 150, the applicant installed:

- 1) For corrosion protection Doublewall fiberglass tanks and flexible doublewall piping.
- 2) For spill and overfill prevention Sumps.
- 3) For leak detection Tank gauge system and monitoring wells.
- 4) For VOC reduction Stage I vapor recovery and Stage II vapor recovery piping, hoses & nozzles on 4 dispensers.

Based on information currently available, the applicant is in compliance with all applicable DEQ regulations in that these tanks are permitted and fee payments are current. The facility is also in compliance with Stage II vapor recovery rules.

The Department concludes that the costs claimed by the applicant (\$121,967) are eligible pursuant to the definition of a pollution control facility in ORS 468.155.

b. Eligible Cost Findings

In determining the percent of the eligible pollution control facility cost allocable to pollution control, the following factors from ORS 468.190 have been considered and analyzed as indicated:

1) The extent to which the facility is used to recover and convert waste products into a salable or usable commodity.

The equipment does not recover or convert waste products into a salable or usable commodity.

2) The estimated annual percent return on the investment in the facility.

There is no annual percent return on investment as the applicant claims no gross annual income from the facility.

3) The alternative methods, equipment and costs for achieving the same pollution control objective.

The applicant considered the methods chosen to be the most cost effective. The methods chosen are acceptable for meeting the requirements of federal regulations.

4) Any related savings or increase in costs which occur or may occur as a result of the installation of the facility.

The applicant claims no savings or increase in costs as a result of the installation.

5) Any other factors which are relevant in establishing the portion of the , actual cost of the facility properly allocable to pollution control.

There are no other factors to consider in establishing the actual cost of the facility properly allocable to prevention, control of reduction of pollution.

The actual cost of the facility properly allocable to pollution control is determined by using these factors as displayed in the following table:

	Eligible Facility Cost	Percent Allocable	Amount Allocable
Corrosion Protection: Doublewall fiberglass tanks and piping	\$39,329	65% (1)	\$25,564
Spill & Overfill Prevention: Sumps	1,782	100	1,782
Leak Detection: Tank gauge system Monitoring wells	9,516 259	90 (2) 100	8,564 259
Stage I & II vapor recovery (incl. 24 hozes and nozzles on 4 dispensers)	3 12,514	100	12,514
Labor and materials	58,567	100	58,567
Total	\$121,967	88%	\$107,250

- (1) The Department has determined the percent allocable on the cost of a corrosion protected tank and piping system by using a formula based on the difference in cost between the protected tank and piping system and an equivalent bare steel system as a percent of the protected system. Applying this formula to the costs presented by the applicant, where the protected system cost is \$39,329 and the bare steel system is \$13,884, the resulting portion of the eligible tank and piping cost allocable to pollution control is 65%.
- (2) The applicant's cost for a tank gauge system is reduced to 90% of cost based on a determination by the Department that this is the portion properly allocable to pollution control since the device can serve other purposes, for example, inventory control.

5. <u>Summation</u>

- a. The facility was constructed in accordance with all regulatory requirements.
- b. The facility is eligible for tax credit certification in that the principal purpose of the claimed facility is to comply with requirements imposed by the federal Environmental Protection Agency to prevent pollution of soil, water and air. This is accomplished by preventing releases in soil, water or air. The facility qualifies as a "pollution control facility" defined in OAR 340-16-025(2)(g): "Installation or construction of facilities which will be used to detect, deter or prevent spills or unauthorized releases."
- c. The facility complies with DEQ statutes and rules.
- d. The portion of the facility cost that is properly allocable to pollution control is 88%.
- 6. <u>Director's Recommendation</u>

Based upon these findings, it is recommended that a Pollution Control Facility Certificate bearing the cost of \$121,967 with 88% allocated to pollution control, be issued for the facility claimed in Tax Credit Application No. TC-4312.

Barbara J. Anderson (503) 229-5870 November 13, 1994

State of Oregon Department of Environmental Quality

TAX RELIEF APPLICATION REVIEW REPORT

1. <u>Applicant</u>

Truax Harris Energy Co. P O Box 607 Wilsonville, OR 97070

The applicant owns and operates a retail gas station at 2585 River Rd., Eugene, OR, Facility No. 5996.

Application was made for a tax credit for a water pollution control facility involving underground storage tanks. The application also included related air quality Stage I vapor recovery.

2. <u>Description of Claimed Facility</u>

The claimed pollution control facilities described in this application are three doublewall fiberglass tanks and flexible doublewall piping, spill containment basins, upgrade for tank gauge system, monitoring wells, sumps, turbine leak detectors, oil/water separator and Stage I vapor recovery.

Claimed facility cost (Accountant's certification was provided) \$182,997

3. <u>Procedural Requirements</u>

The facility is governed by ORS 468.150 through 468.190, and by OAR Chapter 340, Division 16.

The facility was substantially completed on October 1, 1993 and placed into operation on October 1, 1993. The application for certification was submitted to the Department on October 21, 1994 and was considered to be complete and filed on November 10, 1994, within two years of the completion date of the project.

4. Evaluation of Application

a. The facility is eligible because the principal purpose of the facility is to comply with underground storage tank requirements imposed by the federal Environmental Protection Agency to prevent pollution of soil, water and air. This is accomplished by preventing releases into soil, water or air. The facility qualifies as a "pollution control facility", defined in OAR 340-16-025(2)(g): "Installation or construction of facilities which will be used to detect, deter or prevent spills or unauthorized releases."

Prior to the installation of pollution control, the facility consisted of three steel tanks and piping with no corrosion protection, spill and overfill prevention, or leak detection except for a tank gauge system.

To respond to Air Quality regulations under OAR 340-22-400 - 403 and Underground Storage Tank requirements under OAR 340-Division 150, the applicant installed:

- 1) For corrosion protection Doublewall fiberglass tanks and flexible doublewall piping.
- 2) For spill and overfill prevention Spill containment basins, sumps and oil/water separator.
- 3) For leak detection Upgrade for tank gauge system, turbine leak detectors and monitoring wells.
- 4) For VOC reduction Stage I vapor recovery.

Based on information currently available, the applicant is in compliance with all applicable DEQ regulations in that these tanks are permitted and fee payments are current.

The Department concludes that the costs claimed by the applicant (\$182,997) are eligible pursuant to the definition of a pollution control facility in ORS 468.155.

b. Eligible Cost Findings

In determining the percent of the eligible pollution control facility cost allocable to pollution control, the following factors from ORS 468.190 have been considered and analyzed as indicated:

1) The extent to which the facility is used to recover and convert waste products into a salable or usable commodity.

The equipment does not recover or convert waste products into a salable or usable commodity.

2) The estimated annual percent return on the investment in the facility.

There is no annual percent return on investment as the applicant claims no gross annual income from the facility.

3) The alternative methods, equipment and costs for achieving the same pollution control objective.

The applicant considered the methods chosen to be the most cost effective. The methods chosen are acceptable for meeting the requirements of federal regulations.

4) Any related savings or increase in costs which occur or may occur as a result of the installation of the facility.

The applicant claims no savings or increase in costs as a result of the installation.

5) Any other factors which are relevant in establishing the portion of the actual cost of the facility properly allocable to pollution control.

There are no other factors to consider in establishing the actual cost of the facility properly allocable to prevention, control of reduction of pollution.

The actual cost of the facility properly allocable to pollution control is determined by using these factors as displayed in the following table:

Application No. TC-4313 Page 4

	Eligible Facility Cost	Percent Allocable	Amount Allocable
Corrosion Protection:			
Doublewall fiberglass			
tanks and piping	\$28,358	53% (1)	\$15,030
Spill & Overfill Prevention	•		
Spill containment basins	669	100	669
Sumps	3,077	100	3,077
Oil/water separator	4,107	100	4,107
Leak Detection:			
Tank gauge upgrade	3,182	90 (2)	2,864
Monitoring wells	259	100	259
Turbine leak detectors	895	100	895
Stage I vapor recovery	366	100	366
Labor and materials	142,084	100	142,084
	<u></u>	<u> </u>	
Total	\$182,997	93%	\$169,351

- (1) The Department has determined the percent allocable on the cost of a corrosion protected tank and piping system by using a formula based on the difference in cost between the protected tank and piping system and an equivalent bare steel system as a percent of the protected system. Applying this formula to the costs presented by the applicant, where the protected system cost is \$28,358 and the bare steel system is \$13,398, the resulting portion of the eligible tank and piping cost allocable to pollution control is 53%.
- (2) The applicant's cost for an upgrade for a tank gauge system is reduced to 90% of cost based on a determination by the Department that this is the portion properly allocable to pollution control since the device can serve other purposes, for example, inventory control.

5. <u>Summation</u>

- a. The facility was constructed in accordance with all regulatory requirements.
- b. The facility is eligible for tax credit certification in that the principal purpose of the claimed facility is to comply with requirements imposed by the federal Environmental Protection Agency to prevent pollution of soil, water and air. This is accomplished by preventing releases in soil, water or air. The facility qualifies as a "pollution control facility" defined in OAR 340-16-025(2)(g): "Installation or construction of facilities which will be used to detect, deter or prevent spills or unauthorized releases."
- c. The facility complies with DEQ statutes and rules.
- d. The portion of the facility cost that is properly allocable to pollution control is 93%.
- 6. Director's Recommendation

Based upon these findings, it is recommended that a Pollution Control Facility Certificate bearing the cost of \$182,997 with 93% allocated to pollution control, be issued for the facility claimed in Tax Credit Application No. TC-4313.

Barbara J. Anderson (503) 229-5870 November 13, 1994

State of Oregon Department of Environmental Quality

TAX RELIEF APPLICATION REVIEW REPORT

1. <u>Applicant</u>

Dennis Thompson DBA Tigard Arco 12475 SW Main Street Tigard, OR 97223

The applicant owns and operates a retail gas station at 12475 SW Main St., Tigard, OR, Facility No. 2371.

Application was made for a tax credit for a water pollution control facility involving underground storage tanks. The application also included related air quality Stage II vapor recovery equipment.

2. <u>Description of Claimed Facility</u>

The claimed pollution control facilities described in this application are sumps and Stage I and II vapor recovery equipment.

Claimed facility cost (Accountant's certification was provided) \$57,719

3. <u>Procedural Requirements</u>

The facility is governed by ORS 468.150 through 468.190, and by OAR Chapter 340, Division 16.

The facility was substantially completed on August 1, 1994 and placed into operation on August 1, 1994. The application for certification was submitted to the Department on October 25, 1994 was considered to be complete and filed on October 28, 1994, within two years of the completion date of the project.

4. <u>Evaluation of Application</u>

a. The facility is eligible because the principal purpose of the facility is to comply with underground storage tank requirements imposed by the federal Environmental Protection Agency to prevent pollution of soil, water and air. This is accomplished by preventing releases into soil, water or air. The facility qualifies as a "pollution control facility", defined in OAR 340-16-025(2)(g): "Installation or construction of facilities which will be used to detect, deter or prevent spills or unauthorized releases."

Prior to the installation of pollution control, the facility consisted of three tanks and piping with corrosion protection, spill and overfill prevention and leak detection equipment, but no under dispenser sumps or Stage II vapor recovery.

To respond to Air Quality regulations under OAR 340-22-400 - 403 and Underground Storage Tank requirements under OAR 340-Division 150, the applicant installed:

- 1) For spill and overfill prevention Under-dispenser sumps.
- For VOC reduction Stage II vapor recovery piping, hoses & nozzles on 4 dispensers.

Based on information currently available, the applicant is in compliance with all applicable DEQ regulations in that these tanks are permitted and fee payments are current. The facility is also in compliance with Stage II vapor recovery rules.

The Department concludes that the costs claimed by the applicant (\$57,719) are eligible pursuant to the definition of a pollution control facility in ORS 468.155.

b. Eligible Cost Findings

In determining the percent of the eligible pollution control facility cost allocable to pollution control, the following factors from ORS 468.190 have been considered and analyzed as indicated:

1) The extent to which the facility is used to recover and convert waste products into a salable or usable commodity.

The equipment does not recover or convert waste products into a salable or usable commodity.

2) The estimated annual percent return on the investment in the facility.

There is no annual percent return on investment as the applicant claims no gross annual income from the facility.

3) The alternative methods, equipment and costs for achieving the same pollution control objective.

The applicant did not indicate that alternatives were considered. The methods chosen are acceptable for meeting the requirements of federal regulations.

4) Any related savings or increase in costs which occur or may occur as a result of the installation of the facility.

The applicant claims no savings or increase in costs as a result of the installation.

5) Any other factors which are relevant in establishing the portion of the actual cost of the facility properly allocable to pollution control.

There are no other factors to consider in establishing the actual cost of the facility properly allocable to prevention, control of reduction of pollution.

The actual cost of the facility properly allocable to pollution control is determined by using these factors as displayed in the following table:

	Eligible Facility Cost	Percent Allocable	Amount Allocable
Spill & Overfill Prevention;			<u> </u>
Sumps	1,647	100	1,647
Stage II vapor recovery (incl. 18 hozes and nozzle	S		
on 4 dispensers)	10,562	100	10,562
Labor and materials	45,510	100	45,510
Total	\$57,719	100%	\$57,719
TOTAL	φ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	100 /0	φ.,,,,,,,,

5. <u>Summation</u>

- a. The facility was constructed in accordance with all regulatory requirements.
- b. The facility is eligible for tax credit certification in that the principal purpose of the claimed facility is to comply with requirements imposed by the federal Environmental Protection Agency to prevent pollution of soil, water and air. This is accomplished by preventing releases in soil, water or air. The facility qualifies as a "pollution control facility" defined in OAR 340-16-025(2)(g): "Installation or construction of facilities which will be used to detect, deter or prevent spills or unauthorized releases."
- c. The facility complies with DEQ statutes and rules.
- d. The portion of the facility cost that is properly allocable to pollution control is 100%.
- 6. Director's Recommendation

Based upon these findings, it is recommended that a Pollution Control Facility Certificate bearing the cost of \$57,719 with 100% allocated to pollution control, be issued for the facility claimed in Tax Credit Application No. TC-4314.

Barbara J. Anderson (503) 229-5870 October 28, 1994

State of Oregon Department of Environmental Quality

TAX RELIEF APPLICATION REVIEW REPORT

1. <u>Applicant</u>

Truax Harris Energy Co. P O Box 607 Wilsonville, OR 97070

The applicant owns and operates a retail gas station at 7035 Nyberg Rd., Tualatin, OR, Facility No. 6580.

Application was made for a tax credit for a water pollution control facility involving underground storage tanks. The application also included related air quality Stage I vapor recovery and Stage II vapor recovery equipment.

2. <u>Description of Claimed Facility</u>

The claimed pollution control facilities described in this application are three doublewall fiberglass tanks and flexible doublewall piping, monitoring wells, sumps and Stage I and II vapor recovery equipment.

Claimed facility cost (Accountant's certification was provided)

3. <u>Procedural Requirements</u>

The facility is governed by ORS 468.150 through 468.190, and by OAR Chapter 340, Division 16.

\$99,362

The facility was substantially completed on February 15, 1993 and placed into operation on February 15, 1993. The application for certification was submitted to the Department on October 26, 1994 and was considered to be complete and filed on November 10, 1994, within two years of the completion date of the project.

4. Evaluation of Application

a. The facility is eligible because the principal purpose of the facility is to comply with underground storage tank requirements imposed by the federal Environmental Protection Agency to prevent pollution of soil, water and air. This is accomplished by preventing releases into soil, water or air. The facility qualifies as a "pollution control facility", defined in OAR 340-16-025(2)(g): "Installation or construction of facilities which will be used to detect, deter or prevent spills or unauthorized releases."

Prior to the installation of pollution control, the facility consisted of three registered tanks and piping with no corrosion protection, but with spill and overfill prevention and leak detection.

To respond to Air Quality regulations under OAR 340-22-400 - 403 and Underground Storage Tank requirements under OAR 340-Division 150, the applicant installed:

- 1) For corrosion protection Doublewall fiberglass tanks and flexible doublewall piping.
- 2) For spill and overfill prevention Sumps.
- 3) For leak detection Monitoring wells.
- 4) For VOC reduction Stage I vapor recovery and Stage II vapor recovery piping, hoses & nozzles on 2 dispensers.

Based on information currently available, the applicant is in compliance with all applicable DEQ regulations in that these tanks are permitted and fee payments are current. The facility is also in compliance with Stage II vapor recovery rules.

The Department concludes that the costs claimed by the applicant (\$99,362) are eligible pursuant to the definition of a pollution control facility in ORS 468.155.

b. Eligible Cost Findings

In determining the percent of the eligible pollution control facility cost allocable to pollution control, the following factors from ORS 468.190 have been considered and analyzed as indicated:

1) The extent to which the facility is used to recover and convert waste products into a salable or usable commodity.

The equipment does not recover or convert waste products into a salable or usable commodity.

2) The estimated annual percent return on the investment in the facility.

There is no annual percent return on investment as the applicant claims no gross annual income from the facility.

3) The alternative methods, equipment and costs for achieving the same pollution control objective.

The applicant considered the methods chosen to be the most cost effective. The methods chosen are acceptable for meeting the requirements of federal regulations.

4) Any related savings or increase in costs which occur or may occur as a result of the installation of the facility.

The applicant claims no savings or increase in costs as a result of the installation.

5) Any other factors which are relevant in establishing the portion of the actual cost of the facility properly allocable to pollution control.

There are no other factors to consider in establishing the actual cost of the facility properly allocable to prevention, control of reduction of pollution.

The actual cost of the facility properly allocable to pollution control is determined by using these factors as displayed in the following table:

Application No. TC-4315 Page 4

	Eligible Facility Cost	Percent Allocable	Amount Allocable
Corrosion Protection: Doublewall fiberglass tanks and piping	\$30,930	57% (1)	\$17,630
Spill & Overfill Prevention: Sumps	970	100	970
Leak Detection: Monitoring wells	258	100	258
Stage I & II vapor recovery (incl. 12 hozes and nozzles on 2 dispensers)	s 10,937	100	10,937
Labor and materials	56,267	100	56,267
Total	\$99,362	87%	\$86,062

(1) The Department has determined the percent allocable on the cost of a corrosion protected tank and piping system by using a formula based on the difference in cost between the protected tank and piping system and an equivalent bare steel system as a percent of the protected system. Applying this formula to the costs presented by the applicant, where the protected system cost is \$30,930 and the bare steel system is \$13,451, the resulting portion of the eligible tank and piping cost allocable to pollution control is 57%.

5. <u>Summation</u>

- a. The facility was constructed in accordance with all regulatory requirements.
- b. The facility is eligible for tax credit certification in that the principal purpose of the claimed facility is to comply with requirements imposed by the federal Environmental Protection Agency to prevent pollution of soil, water and air. This is accomplished by preventing releases in soil, water or air. The facility qualifies as a "pollution control facility" defined in OAR 340-16-025(2)(g): "Installation or construction of facilities which will be used to detect, deter or prevent spills or unauthorized releases."

- c. The facility complies with DEQ statutes and rules.
- d. The portion of the facility cost that is properly allocable to pollution control is 87%.
- 6. Director's Recommendation

Based upon these findings, it is recommended that a Pollution Control Facility Certificate bearing the cost of \$99,362 with 87% allocated to pollution control, be issued for the facility claimed in Tax Credit Application No. TC-4315.

Barbara J. Anderson (503) 229-5870 November 13, 1994

State of Oregon Department of Environmental Quality

TAX RELIEF APPLICATION REVIEW REPORT

1. <u>Applicant</u>

Truax Harris Energy Co. P O Box 607 Wilsonville, OR 97070

The applicant owns and operates a retail gas station at 28851 West 11th, Eugene, OR, Facility No. 318.

Application was made for a tax credit for a water pollution control facility involving underground storage tanks. The application also included related air quality Stage I vapor recovery and Stage II vapor recovery equipment.

2. <u>Description of Claimed Facility</u>

The claimed pollution control facilities described in this application are three doublewall fiberglass tanks and flexible doublewall piping, spill containment basins, tank gauge system with overfill alarm, turbine leak detectors, monitoring wells, sumps, oil/water separator and Stage I and II vapor recovery equipment.

Claimed facility cost (Accountant's certification was provided) \$219,570

3. <u>Procedural Requirements</u>

The facility is governed by ORS 468.150 through 468.190, and by OAR Chapter 340, Division 16.

The facility was substantially completed on September 1, 1994 and placed into operation on September 1, 1994. The application for certification was submitted to the Department on October 26, 1994 and was considered to be complete and filed on November 4, 1994, within two years of the completion date of the project.

4. Evaluation of Application

a. The facility is eligible because the principal purpose of the facility is to comply with underground storage tank requirements imposed by the federal Environmental Protection Agency to prevent pollution of soil, water and air. This is accomplished by preventing releases into soil, water or air. The facility qualifies as a "pollution control facility", defined in OAR 340-16-025(2)(g): "Installation or construction of facilities which will be used to detect, deter or prevent spills or unauthorized releases."

Prior to the installation of pollution control, the facility consisted of four registered tanks and piping with no corrosion protection and no spill and overfill prevention or leak detection equipment.

To respond to Air Quality regulations under OAR 340-22-400 - 403 and Underground Storage Tank requirements under OAR 340-Division 150, the applicant installed:

- 1) For corrosion protection Doublewall fiberglass tanks and flexible doublewall piping.
- 2) For spill and overfill prevention Spill containment basins, sumps, overfill alarm and oil/water separator.
- 3) For leak detection Tank gauge system, monitoring wells and turbine leak detectors.
- 4) For VOC reduction Stage I and II vapor recovery piping, hoses & nozzles on 6 dispensers.

Based on information currently available, the applicant is in compliance with all applicable DEQ regulations in that these tanks are permitted and fee payments are current. The facility is also in compliance with Stage II vapor recovery rules.

The Department concludes that the costs claimed by the applicant (\$219,570) are eligible pursuant to the definition of a pollution control facility in ORS 468.155.

b. Eligible Cost Findings

In determining the percent of the eligible pollution control facility cost allocable to pollution control, the following factors from ORS 468.190 have been considered and analyzed as indicated:

1) The extent to which the facility is used to recover and convert waste products into a salable or usable commodity.

The equipment does not recover or convert waste products into a salable or usable commodity.

2) The estimated annual percent return on the investment in the facility.

There is no annual percent return on investment as the applicant claims no gross annual income from the facility.

3) The alternative methods, equipment and costs for achieving the same pollution control objective.

The applicant considered the methods chosen to be the most cost effective. The methods chosen are acceptable for meeting the requirements of federal regulations.

4) Any related savings or increase in costs which occur or may occur as a result of the installation of the facility.

The applicant claims no savings or increase in costs as a result of the installation.

5) Any other factors which are relevant in establishing the portion of the actual cost of the facility properly allocable to pollution control.

There are no other factors to consider in establishing the actual cost of the facility properly allocable to prevention, control of reduction of pollution.

The actual cost of the facility properly allocable to pollution control is determined by using these factors as displayed in the following table:

Application No. TC-4316 Page 4

	Eligible Facility Cost	Percent Allocable	Amount Allocable
Corrosion Protection:			
Doublewall fiberglass			
tanks and piping	\$49,926	72% (1)	\$35,947
Spill & Overfill Prevention	L <u>.</u>		
Spill containment basins	627	100	627
Oil/water separator	6,888	100	6,888
Sumps	3,077	100	3,077
Leak Detection:			
Tank gauge w/alarm	7,184	90 (2)	6,466
Turbine leak detectors	921	100	921
Monitoring wells	229	100	229
Stage I & II vapor recovery	V		
(incl. 36 hozes and nozzl			
on 6 dispensers)	16,808	100	16,808
Labor and materials	133,910	100	133,910
Total	\$219,570	93%	\$204,873

- (1) The Department has determined the percent allocable on the cost of a corrosion protected tank and piping system by using a formula based on the difference in cost between the protected tank and piping system and an equivalent bare steel system as a percent of the protected system. Applying this formula to the costs presented by the applicant, where the protected system cost is \$49,926 and the bare steel system is \$14,155, the resulting portion of the eligible tank and piping cost allocable to pollution control is 72%.
- (2) The applicant's cost for a tank gauge system is reduced to 90% of cost based on a determination by the Department that this is the portion properly allocable to pollution control since the device can serve other purposes, for example, inventory control.

5. <u>Summation</u>

- a. The facility was constructed in accordance with all regulatory requirements.
- b. The facility is eligible for tax credit certification in that the principal purpose of the claimed facility is to comply with requirements imposed by the federal Environmental Protection Agency to prevent pollution of soil, water and air. This is accomplished by preventing releases in soil, water or air. The facility qualifies as a "pollution control facility" defined in OAR 340-16-025(2)(g): "Installation or construction of facilities which will be used to detect, deter or prevent spills or unauthorized releases."
- c. The facility complies with DEQ statutes and rules.
- d. The portion of the facility cost that is properly allocable to pollution control is 93%.

6. Director's Recommendation

Based upon these findings, it is recommended that a Pollution Control Facility Certificate bearing the cost of \$219,570 with 93% allocated to pollution control, be issued for the facility claimed in Tax Credit Application No. TC-4316.

Barbara J. Anderson (503) 229-5870 November 4, 1994

State of Oregon Department of Environmental Quality

TAX RELIEF APPLICATION REVIEW REPORT

1. <u>Applicant</u>

Truax Harris Energy Co. P O Box 607 Wilsonville, OR 97070

The applicant owns and operates a retail gas station at 1680 SW Third Street, Corvallis, OR, Facility No. 7156.

Application was made for a tax credit for a water pollution control facility involving underground storage tanks. The application also included related air quality Stage I vapor recovery and Stage II vapor recovery equipment.

The applicant has claimed equipment in this application that replaced equipment claimed in prior tax credit (TC-2581) issued in 1990. The equipment was replaced before the end of its useful life. See Section 2 below for an explanation of the claimed cost adjustment. TC-2581 will be submitted for revocation.

2. <u>Description of Claimed Facility</u>

The claimed pollution control facilities described in this application are three doublewall fiberglass tanks and flexible doublewall piping, spill containment basins, tank gauge system, overfill alarm, turbine leak detectors, monitoring wells, sumps, oil/water separator and Stage I and II vapor recovery equipment.

Claimed facility cost (Accountant's certification was provided) \$201,797

Application No. TC-4317 Page 2

The Department concludes that the eligible facility cost for the project is \$201,060. This represents a difference of \$737 from the applicant's claimed cost of \$201,797 due an adjustment made by the Department to the claimed cost of spill containment basins that replaced the same equipment claimed in a prior tax credit (TC-2581). The previously claimed equipment was replaced before the end of its useful life and the adjustment reflects the amount of the tax credit remaining pursuant to Oregon Administrative Rules 340-16-025(3)(g)(B). See attached Worksheet 1.

3. <u>Procedural Requirements</u>

The facility is governed by ORS 468.150 through 468.190, and by OAR Chapter 340, Division 16.

The facility was substantially completed on August 1, 1994 and placed into operation on August 1, 1994. The application for certification was submitted to the Department on October 26, 1994 and was considered to be complete and filed on November 10, 1994, within two years of the completion date of the project.

4. <u>Evaluation of Application</u>

a. The facility is eligible because the principal purpose of the facility is to comply with underground storage tank requirements imposed by the federal Environmental Protection Agency to prevent pollution of soil, water and air. This is accomplished by preventing releases into soil, water or air. The facility qualifies as a "pollution control facility", defined in OAR 340-16-025(2)(g): "Installation or construction of facilities which will be used to detect, deter or prevent spills or unauthorized releases."

Prior to the installation of pollution control, the facility consisted of four registered tanks and piping with no corrosion protection, no spill and overfill prevention except spill containment basins and no leak detection equipment.

To respond to Air Quality regulations under OAR 340-22-400 - 403 and Underground Storage Tank requirements under OAR 340-Division 150, the applicant installed:

- 1) For corrosion protection Doublewall fiberglass tanks and flexible doublewall piping.
- 2) For spill and overfill prevention Spill containment basins, sumps, overfill alarm and oil/water separator.

- 3) For leak detection Tank gauge system, monitoring wells and turbine leak detectors.
- 4) For VOC reduction Stage I and II vapor recovery piping, hoses & nozzles on 6 dispensers.

Based on information currently available, the applicant is in compliance with all applicable DEQ regulations in that these tanks are permitted and fee payments are current. The facility is also in compliance with Stage II vapor recovery rules.

b. Eligible Cost Findings

In determining the percent of the eligible pollution control facility cost allocable to pollution control, the following factors from ORS 468.190 have been considered and analyzed as indicated:

1) The extent to which the facility is used to recover and convert waste products into a salable or usable commodity.

The equipment does not recover or convert waste products into a salable or usable commodity.

2) The estimated annual percent return on the investment in the facility.

There is no annual percent return on investment as the applicant claims no gross annual income from the facility.

3) The alternative methods, equipment and costs for achieving the same pollution control objective.

The applicant considered the methods chosen to be the most cost effective. The methods chosen are acceptable for meeting the requirements of federal regulations.

4) Any related savings or increase in costs which occur or may occur as a result of the installation of the facility.

The applicant claims no savings or increase in costs as a result of the installation.

5) Any other factors which are relevant in establishing the portion of the actual cost of the facility properly allocable to pollution control.

There are no other factors to consider in establishing the actual cost of the facility properly allocable to prevention, control of reduction of pollution.

The actual cost of the facility properly allocable to pollution control is determined by using these factors as displayed in the following table:

	Eligible Facility Cost	Percent Allocable	Amount Allocable
Corrosion Protection:		<u> </u>	
Doublewall fiberglass	* (* * *		**
tanks and piping	\$48,420	71% (1)	\$34,378
Spill & Overfill Prevention:			
Spill containment basins	367	100	367
Oil/water separator	3,427	100	3,427
Sumps	3,077	100	3,077
Overfill alarm	187	100	187
Leak Detection: Tank gauge system Turbine leak detectors Monitoring wells	7,184 921 229	90 (2) 100 100	6,466 921 229
Stage I & II vapor recovery (incl. 36 hozes and nozzle			
on 6 dispensers)	31,743	100	31,743
Labor and materials	105,505	100	105,505
	<u></u>	<u> </u>	······································
Total	\$201,060	93%	\$186,300

(1) The Department has determined the percent allocable on the cost of a corrosion protected tank and piping system by using a formula based on the difference in cost between the protected tank and piping system and an equivalent bare steel system as a percent of the protected system. Applying this formula to the costs presented by the applicant, where the protected system cost is \$48,420 and the bare steel system is \$14,130, the resulting portion of the eligible tank and piping cost allocable to pollution control is 71%.

Application No. TC-4317 Page 5

(2) The applicant's cost for a tank gauge system is reduced to 90% of cost based on a determination by the Department that this is the portion properly allocable to pollution control since the device can serve other purposes, for example, inventory control.

5. <u>Summation</u>

- a. The facility was constructed in accordance with all regulatory requirements.
- b. The facility is eligible for tax credit certification in that the principal purpose of the claimed facility is to comply with requirements imposed by the federal Environmental Protection Agency to prevent pollution of soil, water and air. This is accomplished by preventing releases in soil, water or air. The facility qualifies as a "pollution control facility" defined in OAR 340-16-025(2)(g): "Installation or construction of facilities which will be used to detect, deter or prevent spills or unauthorized releases."
- c. The facility complies with DEQ statutes and rules.
- d. The portion of the facility cost that is properly allocable to pollution control is 93%.

6. Director's Recommendation

Based upon these findings, it is recommended that a Pollution Control Facility Certificate bearing the cost of \$201,060 with 93% allocated to pollution control, be issued for the facility claimed in Tax Credit Application No. TC-4317.

Barbara J. Anderson (503) 229-5870 November 14, 1994

WORKSHEET 1. PRIOR TAX CREDIT ADJUSTMENT TO CLAIMED COST

TRUAX HARRIS ENERGY CO. Current Application: TC-4317

Prior Tax Credit: TC-2581 \$1,852, 100% amount allocated

DETERMINATION OF TAX CREDIT REMAINING TO BE CLAIMED WHERE THE EQUIPMENT IS REPLACED BEFORE THE END OF ITS USEFUL LIFE (OAR 340-16-025(3)(g)(B)

A. CLAIM DETAIL: Spill containment basins, 4 on prior and 3 on current tax credit. (Prorating is used when the number of items of equipment claimed is different in prior and current tax credits.)

	PRIOR TAX CREDIT 4 BASINS	PRIOR PRORATED TO 3 (75%)	CURRENT TAX CREDIT CLAIM 3 BASINS
TOTAL CLAIM - 100% (not reduced by any percentages)	\$1,852	\$1,389	\$1,779
Cost of spill basins	652	489	627
Installation cost	1,200	900	1,152 (1)
Amount claimed on prior credit	\$463	347	
100% amount allocable	463	347	
Amount of prior credit remaining (\$1852 - 463)	1,389	1042	
(1) Estimate of installation cost where precise amount not available:			
Percent increase in price of basins (\$627 / 489) =	128%		
Applied to installation cost (\$900 x 128%) =	\$1,152		
B. TAX CREDIT REMAINING TO BE CLAIMED:			
TOTAL AMOUNT	\$1,042 (*)		
Spill containment basins	367		
Installation cost	675		
C. DIFFERENCE FROM APPLICANT'S CLAIMED COST (\$1779 - 1042) =		\$737	
		========	- -

(*) This is the full amount eligible to be claimed on the current tax credit application. The actual tax credit taken would be no greater than 50 percent of that amount.

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Application No. TC-4318 Page 1

State of Oregon Department of Agriculture

TAX RELIEF APPLICATION REVIEW REPORT

1. Applicant

Lyle D. Neuschwander 26262 Powerline Road Halsey, Oregon 97348

The applicant owns and operates a grass seed farm operation in Linn County, Oregon.

Application was made for tax credit for an air pollution control equipment.

2. Description of Claimed Facility

The equipment described in this application is a John Deere 4850 200 HP Tractor, located at 26262 Powerline Road, Halsey, Oregon. The equipment is owned by the applicant.

Claimed equipment cost: \$49,865 (Accountant's Certification was provided.)

3. Description of Farm Operation Plan to Reduce Open Field Burning.

The applicant has 50 acres of perennial grass seed and 600 acres of annual grass seed under cultivation. Prior to incorporating alternatives the applicant open field burned as many acres as the weather and smoke management program permitted.

The applicant's alternatives include flail chopping the straw, plowing the residue under, and rolling and dragging the field as preparation for seeding. The applicant states that the purchased tractor now enables him to work the fields in a timely fashion following harvest as an alternative to open field burning.

4. Procedural Requirements

The equipment is governed by ORS 468.150 through 468.190, and by OAR Chapter 340, Division 16. The equipment has met all statutory deadlines in that:

Purchase of the equipment was substantially completed on January 11, 1994. The application was submitted on October 26, 1994; and the application for final certification was found to be complete on November 10, 1994. The application was filed within two years of substantial completion of the equipment.

5. Evaluation of Application

a. The equipment is eligible under ORS 468.150 because the equipment is an approved alternative method for field sanitation and straw utilization and disposal that reduces a

substantial quantity of air pollution. This reduction is accomplished by reduction of air contaminants, defined in ORS 468A.005; by reducing the maximum acreage to be open burned in the Willamette Valley as required in OAR 340-26-013; and, the facility's qualification as a "pollution control facility", defined in oAR 340-16-025(2)(f) A): "Equipment, facilities, and land for gathering, densifying, processing, handling, storing, transporting and incorporating grass straw or straw based products which will result in reduction of open field burning."

b. Eligible Cost Findings

In determining the percent of the pollution control equipment cost allocable to pollution control, the following factors from ORS 468.190 have been considered and analyzed as indicated:

1. The extent to which the equipment is used to recover and convert waste products into a salable or usable commodity.

The equipment does not recover or convert waste products into a salable or usable commodity.

2. The estimated annual percent return on the investment in the equipment.

There is no annual percent return on the investment as applicant claims no gross annual income.

3. The alternative methods, equipment and costs for achieving the same pollution control objective.

The method chosen is an accepted method for reduction of air pollution. The method is one of the least costly, most effective methods of reducing air pollution.

4. Any related savings or increase in costs which occur or may occur as a result of the purchase of the equipment.

There is an increase in operating costs of \$4,004 to annually maintain and operate the equipment. These costs were considered in the return on investment calculation.

5. Any other factors which are relevant in establishing the portion of the actual cost of the equipment properly allocable to the prevention, control or reduction of air pollution.

The established average annual operating hours for tractors is set at 450 hours. To obtain a total percent allocable, the annual operating hours per implement used in reducing acreage open field burned is as follows:

Application No. TC-4318 Page 3

Implement	Acres Worked	Machinery Capacity	Annual Operating Hours
Roller and Drag	400 x 3 = 120	00 5 A/H	240
Plow	300	8 A/H	38
Total Annual Op	perating Hours		278

The total annual operating hours of 278 divided by the average annual operating hours of 450 produces a percent allocable of 62%.

The actual cost of the equipment properly allocable to pollution control as determined by using these factors is 62%.

6. <u>Summation</u>

- a. The equipment was constructed in accordance with all regulatory deadlines.
- b. The equipment is eligible under ORS 468.150 as an approved alternative method for field sanitation and straw utilization and disposal that reduces a substantial quantity of air pollution as defined in ORS 468A.005
- c. The equipment complies with DEQ statutes and rules.
- d. The portion of the equipment that is properly allocable to pollution control is 62%.

7. <u>The Department of Agriculture's Recommendation</u>

Based upon these findings, it is recommended that a Pollution Control Facility Certificate bearing the cost of \$49,865, with 62% allocated to pollution control, be issued for the equipment claimed in Tax Credit Application Number TC-4318.

Jim Britton, Manager Smoke Management Program Natural Resources Division Oregon Department of Agriculture (503) 378-6792 FAX: (503) 378-2590

JB:bk4318 November 9, 1994

Application No. TC-4138

State of Oregon Department of Environmental Quality

RECLAIMED PLASTIC TAX CREDIT TAX RELIEF APPLICATION REVIEW REPORT

1. <u>Applicant</u>

DBD Leasing 4427 N. E. 158th Portland, OR 97230

> The applicant is a broker and processor of recyclable plastic. The applicant has purchased an extruding machine to convert scrap plastic into uniform pellets.

Application was made for Reclaimed Plastic Tax Credit.

2. Description of Equipment, Machinery or Personal Property

The claimed equipment consisting of:

One 6" 30:1 L/D Sterling/Davis-Standard Extruder with screw, Temperature control panel and 500 HP DC drive, Serial # N2246; one HSC-60 slide plate screen changer with hydraulic unit; and one GALA ES6/80 Underwater pelletizing system.

The claimed facility investment costs consisted of:

Extruder	\$212,000
Screen changer	21,790
Pelletizer	37,710
Freight	5,000
Installation wiring	15,135
-	
Claimed Facility cost	\$291,635
Noneligible cost	<u> 15,135</u>
Allocable facility cost	\$276 , 500

An invoice and accountant's certification of expenditures were provided.

Application No. TC-4138 Page 2

3. <u>Procedural Requirements</u>

The investment is governed by ORS 468.925 through 468.965, and by OAR Chapter 340, Division 17.

The investment met all statutory deadlines in that:

- a. The request for preliminary certification from Denton Plastic was received on September 7, 1993. The preliminary application was filed complete and 30 day waiting period was waived on September 8, 1993.
- b. The request for preliminary certification was approved on September 15, 1993, before the application for final certification was made.
- c. The investment was made on December 20, 1993, prior to June 30, 1995.

A purchase order to hold the equipment was issued from Denton Plastic to Davis-Standard was issued on August 28, 1993, prior to preliminary certification. An invoice from Davis-Standard to Denton Plastic is dated September 29, 1993. In October 1993 Denton Plastic contacted the Department by phone and indicated that the equipment would be purchased by DBD leasing through US Bancorp and leased to Denton Plastic. DEQ staff responded that since there was common ownership of DBD Leasing and Denton Plastic and the same equipment was involved a new preliminary application was not necessary. Purchase and lease agreements between US Bancorp, the principals in DBD Leasing and Denton Plastics are dated December 20, 1993.

It is the staff's recommendation that due to the change in ownership after the initial purchase order was submitted the date of investment by the applicant, DBD Leasing, should be December 20, 1993.

d. The request for final certification was submitted on July 14, 1994 and was filed complete on October 27, 1994.

4. Evaluation of Application

- a. The investment is eligible because the equipment is necessary to process reclaimed plastic.
- b. Allocable Cost Findings

Application No. TC-4138 Page 3

In determining the portion of the investment costs properly allocable to reclaiming and recycling plastic material, the following factors from ORS 468.960 have been considered and analyzed as indicated:

 The extent to which the claimed collection, transportation, processing or manufacturing process is used to convert reclaimed plastic into a salable or usable commodity.

This factor is applicable because the sole purpose of this extruder is to recycle scrap into a feed stock to be used to manufacture reclaimed plastic products. The waste plastic processed through this extruder is generated by persons other than the applicant.

2) The alternative methods, equipment and costs for achieving the same objective.

The applicant investigated other alternatives and determined that this equipment is the most efficient and productive form an economic standpoint. This extruder is "process specific " and the most appropriate type of equipment for processing scrap plastic into a feed stock for manufacture of reclaimed plastic products.

3) Any other factors which are relevant in establishing the portion of the actual cost of the investment properly allocable to the collection, transportation or processing of reclaimed plastic or to the manufacture of a reclaimed plastic product.

A. Electrical wiring installation costs were experienced by the lessee, Denton Plastic and not the Lessor, DBD Leasing. These costs are not allocable to the equipment costs of the applicant, DBD leasing. The amount of \$15,135 has been subtracted from the claimed facility cost.

B. The Environmental Quality Commission has directed that tax credit applications at or above \$250,000 go through an additional accounting review to determine if costs were properly allocated. This review was performed under contract by the accounting firm of Merina McCoy Gerritz, P.C. The cost allocation review of this application has identified \$15,135.43 of non

Application No. TC-4138 Page 4

allowable costs for electrical wiring as stated in (A) above. This amount has been subtracted from the facility costs and results in a Department recommended allowable cost of \$276,5000.

The actual cost of the investment properly allocable to processing reclaimed plastic as determined by using these factors is 100%.

5. <u>Summation</u>

- a. The investment was made in accordance with all regulatory deadlines.
- b. The investment is eligible for final tax credit certification in that the equipment is necessary to manufacture a reclaimed plastic product.
- c. The qualifying business complies with DEQ statutes and rules.
- d. The portion of the investment cost that is properly allocable to reclaiming and recycling plastic is 100%.

6. <u>Director's Recommendation</u>

Based upon these findings, it is recommended that a Reclaimed Plastic Tax Credit Certificate bearing the cost of \$276,500 with 100% allocated to reclaiming plastic material, be issued for the investment claimed in Tax Credit Application No. TC-4138.

WRB:wrb wp51\tax\tc4138rr.sta (503) 229-5934 October 31, 1994 MERINA MCCOY GERRITZ, P.C. CERTIFIED PUBLIC ACCOUNTANTS

PARTNERS John W. Mcrina, CPA Michael E. McCoy, CPA Gerald V. Gerritz, Jr., CPA CERTIFIED IN Oregon Washington

Oregon Department of Environmental Quality 811 S.W. Sixth Avenue Portland, OR 97204

We have performed the procedures enumerated below, which were agreed to by the Oregon Department of Environmental Quality (DEQ), solely to assist the DEQ in evaluating DBD Leasing's (the Company) Pollution Control Tax Credit Application No. 4138 regarding the plastic extruder machine (the Equipment) in Portland, Oregon. The aggregate-claimed equipment costs on the application are \$291,635.43. The following agreed-upon procedures and related findings are:

- 1. We read the Application, the Oregon Revised Statutes on Pollution Control Facilities Tax Credits Sections 469.150 468.190 (the Statutes) and the Oregon Administrative Rules on Pollution Control Tax Credits Sections 340-16-005 through 340-16-050 (OAR's).
- 2. We reviewed and discussed the Application and Statutes with Charles Bianchi and William Bree of the Oregon Department of Environmental Quality (DEQ).
- 3. We reviewed and discussed the Application and Statutes with Dennis Denton and Paul Bartholemy, two Partners of the Company.
- 4. We inquired as to whether there were any direct or indirect Company costs charged or allocated to the Facility costs claimed in the Application. We were informed that no direct or indirect Company costs were included in the Application.

Based on our review of supporting documentation discussed in item number 5, below, we noted no direct or indirect Company costs were included in the Application.

- 5. We reviewed supporting documentation for 100% of the amount claimed on the Application through review of vendor invoices. All costs which we reviewed supporting the Application appeared to be from third-party vendors.
- 6. We reviewed all costs claimed in the Application for eligibility for pollution control tax credit certification under the rules and statutes that govern the Program.

We found that wiring costs of \$15,135.43 were not paid by the applicant and therefore are not allowable.

18670 WILLAMETTE DRIVE • WEST LINN, OR 97068-1707 (503) 636-4864 • FAX (503) 636-2318

Oregon Department of Environmental Quality

- 7. We reviewed the documents and workpapers of applicant's certified public accountants that relate to the facility claim.
- 8. We determined that there were no related-party or affiliate billings included in the Application. We further verified that DBD Leasing owns the equipment and has executed a lease with Denton Plastics, Inc., which company is using the machine for its tax credit purpose, DBD Leasing and Denton Plastics, Inc. have the following common owners:

	DBD Leasing	Denton Plastics, Inc.
Dennis Denton	25%	40%
Paul Bartholemy	25 %	20%
Michael Denton	25 %	20%
Ron Dyches	25%	_20%
	<u>100%</u>	<u>100%</u>

Because the above procedures do not constitute an audit conducted in accordance with generally accepted auditing standards, we do not express an opinion on any of the items referred to above. In connection with the procedures referred to above, no matters came to our attention that caused us to believe that the Application should be adjusted, except for the \$15,135.43 of wiring costs. Had we performed additional procedures, or had we conducted an audit of the financial statements of the Company in accordance with generally accepted auditing standards, other matters might have come to our attention that would have been reported to you. This report relates only to the items specified above and does not extend to any financial statements of the Company taken as a whole.

This report is solely for the State of Oregon Department of Environmental Quality in evaluating the Company's Pollution Control Tax Credit Application and should not be used for any other purpose.

Merina McCoy & Gerritz, CPA's, P.C.

West Linn, Oregon 97068 September 29, 1994

Application No. T-4175

State of Oregon Department of Environmental Quality

TAX RELIEF APPLICATION REVIEW REPORT

1. Applicant

International Paper Industrial Packaging Group Two Manhattanville Road Purchase, New York 10577

The applicant owns and operates an unbleached kraft pulp and linerboard manufacturing plant in Gardiner, Oregon.

Application was made for tax credit for a water pollution control facility.

2. <u>Description of Facility</u>

The facility consists of 25 lineal feet of 36 inch diameter stainless steel pipe, about 1,550 lineal feet of 36 inch X SDR 32.5 HPDE pipe, a concrete inlet structure (8' by 21' by 21') located at aerated stabilization basin (ASB) and a second carbon steel outlet weir box at the neutralization tank.

Claimed Facility Cost: \$480,275 (Accountant's Certification was provided).

Eligible Facility Cost: \$479,131

The claimed facility cost of \$480,275 has been adjusted to \$479,131 due to an ineligible cost related to a clean-up spill at the excavation site.

Claimed Facility Cost:	\$480,275
Less: Spill clean-up cost:	<u>\$ 1,144</u>
Total Eligible Cost:	\$479,131

3. <u>Procedural Requirements</u>

The facility is governed by ORS 468.150 through 468.190 and by OAR Chapter 340, Division 16.

The facility met the statutory deadline in that construction, of the facility was substantially completed on November 15, 1991 and the application for certification was found to be complete on November 15, 1993, within 2 years of substantial completion of the facility.

4. <u>Evaluation of Application</u>

a. The facility is eligible because the sole purpose of the facility is to control, a substantial quantity of water pollution. This control is accomplished by the use of treatment works for industrial waste as defined in ORS 468B.005.

Prior to the construction of the claimed facility the wastewater pipeline between the neutralization tank and the aerated stabilization basin (ASB) was limited to a hydraulic capacity of 12.5 million gallons per day (mgd). Peak flow rates in the wastewater treatment system sometimes exceeded 12.5 mgd which is either produced by process changes or heavy rainfall. The peak flows resulted in the overflowing of the primary clarifier which is located upstream of the neutralization tank. Overflowing of the primary clarifier to the surface drainage is an unpermitted discharge.

Addition of the 36 inch line increased the hydraulic capacity of the system to 20 mgd. No overflows have occurred since the construction of the facility.

b. Eligible Cost Findings

In determining the percent of the pollution control facility cost allocable to pollution control, the following factors from ORS 468.190 have been considered and analyzed as indicated:

 The extent to which the facility is used to recover and convert waste products into a salable or usable commodity.

The facility does not recover or convert waste products into a salable or usable commodity.

2) The estimated annual percent return on the investment in the facility.

There is no return on investment on this facility.

3) The alternative methods, equipment and costs for achieving the same pollution control objective.

MW\WC12\WC12899.5

Application No. T-4175 Page 3

Two other alternatives were analyzed. One was to install values and pumps after the neutralization tank that would automatically operate during high periods of flow. The second option was to increase the height of the primary clarifier walls and neutralization tank walls thus increasing the hydraulic head for moving the effluent through the pipe by gravity to the ASB.

The first option was found to be too complicated to operate and the second would cause structural problems with the primary clarifier.

 Any related savings or increase in costs which occur or may occur as a result of the installation of the facility.

There are no savings or increase in costs as a result of the facility modification.

5) Any other factors which are relevant in establishing the portion of the actual cost of the facility properly allocable to the prevention, control or reduction of air, water or noise pollution or solid or hazardous waste or to recycling or properly disposing of used oil.

The Environmental Quality Commission has directed that tax credit applications at or above \$250,000 go through an additional accounting review to determine if costs were properly allocated. This review was performed under contract by the accounting firm of Symonds, Evans & Larson. The cost allocation review of this application has identified \$1,144 associated to a clean-up spill at the project site. This amount was subtracted from the claimed facility cost and resulted in the Department's recommended eligible cost of \$479,131.

The actual cost of the facility properly allocable to pollution control as determined by using these factors is 100%.

5. <u>Summation</u>

a. The facility was constructed in accordance with all regulatory deadlines.

MW\WC12\WC12899.5

Application No. T-4175 Page 4

- b. The facility is eligible for tax credit certification in that the sole purpose of the facility is to control a substantial quantity of water pollution. The facility accomplishes this purpose by redesign to control industrial waste as defined in ORS 468B.005.
- c. The facility complies with DEQ statutes and rules and permit conditions.
- d. The portion of the facility cost that is properly allocable to pollution control is 100%.

6. Director's Recommendation

Based upon these findings, it is recommended that a Pollution Control Facility Certificate bearing the cost of \$479,131 with 100% allocated to pollution control, be issued for the facility claimed in Tax Credit Application No. T-4175.

Ruben Kretzschmar:crw MW\WC12\WC12899.5 (503) 269-2721 August 30, 1994

MW\WC12\WC12899.5

Environmental Quality Commission 811 S.W. Sixth Avenue Portland, Oregon 97204

At your request, we have performed certain agreed-upon procedures with respect to International Paper's (the Company's) Pollution Control Tax Credit Application No. T-4175 (the Application) filed with the State of Oregon, Department of Environmental Quality (DEQ) for the Water Pollution Control Facility in Gardiner, Oregon (the Facility). The Application has a claimed Facility cost of \$480,275. Our procedures, findings and conclusion are as follows:

Procedures:

- We read the Application, the Oregon Revised Statutes on Pollution Control Facilities Tax Credits – Sections 468.150 through 468.190 (the Statutes), and the Oregon Administrative Rules on Pollution Control Tax Credits – Sections 340-16-005 through 340-16-050 (OAR's).
- 2. We reviewed certain documents which support the cost of the Facility.
- 3. We discussed the Application, the Statutes and OAR's with Rene Dulay of the DEQ and Charles Bianchi, an independent contractor of the DEQ.
- 4. We discussed certain components of the Application with Robert North, Marty Bozulich and David Halko of the Company.
- 5. We toured the Facility with Mr. North.
- 6. We requested that Company personnel confirm the following:
 - A) There were no related parties or affiliates of the Company which had billings which were included in the Application.
 - B) The capacity of the Facility is adequate for the Company's present operations and does not include significant capacity for potential future operations.
 - C) The Company derives no income or cost savings from operating the Facility.
 - D) In accordance with ORS Section 468.155(2)(e), the Facility is not a "replacement or reconstruction of all or a part of any facility for which a pollution control facility certificate has previously been issued..."

- E) All supply costs included in the Application related to the installation of the Facility and did not include unrelated operating supplies.
- F) All internal labor included in the Application was calculated using the Company's actual payroll costs, related directly to the installation of the Facility and was not related to maintenance and repairs.
- G) There was no previously existing equipment that was sold as a result of the installation of the Facility.
- H) The treated water from the Facility is not being directly reused by the Company.

Findings:

1. through 5.

No matters came to our attention that caused us to believe that the Application should be adjusted, except for \$1,144 in costs related to the clean-up of spills at the excavation site. As a result, the allowable costs for the Application should be reduced to \$479,131.

6. Company personnel confirmed in writing that such assertions were true and correct.

Conclusion:

Because the above procedures do not constitute an audit conducted in accordance with generally accepted auditing standards, we do not express an opinion on any of the items referred to above. In connection with the procedures referred to above, no matters came to our attention that caused us to believe that the specified items should be adjusted, except as noted above. Had we performed additional procedures or had we conducted an audit of the financial statements of the Company in accordance with generally accepted auditing standards, other matters might have come to our attention that would have been reported to you. This report relates only to the items specified above and does not extend to any financial statements of the Company, taken as a whole.

This report is solely for the use of the State of Oregon Environmental Quality Commission and Department of Environmental Quality in evaluating the Company's Pollution Control Tax Credit Application No. T-4175 with respect to its Water Pollution Control Facility in Gardiner, Oregon and should not be used for any other purpose.

Symonds, Evans + Larson

October 27, 1994

Application No. TC-4194

State of Oregon Department of Environmental Quality

TAX RELIEF APPLICATION REVIEW REPORT

1. Applicant

South Coast Lumber Company Plywood Division 815 Railroad Avenue Brookings, Oregon 97415

The applicant owns and operates a laminated veneer lumber manufacturing facility in Brookings, Oregon.

Application was made for tax credit for an air pollution control facility.

2. <u>Description of Facility</u>

The facility controls the finger jointing and ripsaw dust emissions generated by South Coast Lumber's new Laminated Veneer Lumber (LVL) operation. The claimed facility consists of a Pneumafil #16-648-12 baghouse, two Twin Cities #660-HIB-24 fans and fire protection for the baghouse.

Claimed Facility Cost:

\$263,577

A distinct portion of the facility makes an insignificant contribution to the principal purpose of pollution control. The Claimed facility costs included costs which were allocable to the applicants pneumatic wood waste collection system. The applicant indicated the total cost of the waste system was \$403,736. The applicant obtained an estimate of \$148,309, for the cost of a waste system without air pollution control equipment. The applicant originally estimated the waste system only costs to be lower resulting in a higher estimated portion allocated to air pollution control. This lower waste system estimate failed to include engineering expenses.

Adjusted facility cost:

\$255,427.

The applicant indicated the useful life of the facility is 10 years.

Accountant's Certification was provided.

3. <u>Procedural Requirements</u>

The facility is governed by ORS 468.150 through 468.190, and by OAR Chapter 340, Division 16.

The facility met all statutory deadlines in that:

Installation of the facility was substantially completed on March 18, 1992 and placed into operation on March 19, 1993. The application for final certification was received by the Department on December 6, 1993. The application was found to be complete on September 6, 1994, within two years of substantial completion of the facility.

Evaluation of Application

a. Rationale For Eligibility

The facility is eligible because the principal purpose of the facility is to comply with a requirement imposed by the Department to control air pollution. This is in accordance with OAR Chapter 340, Division 21, sections 015 through 030. The applicant's Air Contaminant Discharge Permit, 08-0003, Condition 5, Addendum No. 1, requires the permittee to control the emission of particulate of the LVL baghouse. The emission reduction is accomplished by the elimination of air contaminants as defined in ORS 468A.005.

The claimed facility controls the emission of particulate generated from the finger jointing and ripsaw dust emissions generated by South Coast Lumber's new Laminated Veneer Lumber (LVL) operation. On September 6, 1991, the Department amended South Coast's Air Contaminant Discharge Permit to include the addition of a LVL operation. The baghouse was to ensure the control of emissions to the atmosphere from this operation. Department records indicate that the facility is considered to be in compliance. The claimed facility consists of a Pneumafil #16-648-12 baghouse, two Twin Cities #660-HIB-24 fans and fire protection for the baghouse. Installation of the facility required a foundation, structural and electrical materials and labor, and a fire protection system.

The system fan draws particulate from the LVL operation through metal ductwork (not part of the claimed facility cost) into the baghouse. Here the dirty air stream is folced through a series of fabric filters supported on tubular frames. The particulate collects on the outside of the bags. The filtered air then passes through the system fan and is emitted to the atmosphere. The accumulated particulate flows from the bottom of the baghouse bin into a rotary air lock star valve. The saw dust drops into a duct where a second fan blows it to a cyclone (not included in facility cost) which discharges the saw dust into a chip bin (not part of the facility cost).

b. Eligible Cost Findings

In determining the percent of the pollution control facility cost allocable to controlling pollution, the following factors from ORS 468.190 have been considered and analyzed as indicated:

1) The extent to which the facility is used to recover and convert waste products into a salable or usable commodity.

The facility does recover waste products as a usable commodity consisting of wood chips used for boiler fuel. The applicant estimated the baghouse recovers 1,373 units of wood chips each year. The portion of the annual value of this recovered material allocable to the baghouse is \$17,370.

2) The estimated annual percent return on the investment in the facility.

The income generated by using the particulate as boiler fuel is minimal compared to the annual operating expense of the facility; therefore, there is no annual percent return on the investment.

4.

3) The alternative methods, equipment and costs for achieving the same pollution control objective.

Baghouses are technically recognized as an appropriate method for controlling the emissions of particulate to the atmosphere.

4) Any related savings or increase in costs which occur or may occur as a result of the installation of the facility.

The average annual savings from using the particulate from the facility as boiler fuel is \$17,370. The average annual cost of maintaining and operating the facility is \$47,000.

5) Any other factors which are relevant in establishing the portion of the actual cost of the facility properly allocable to the prevention, control or reduction of air pollution.

The eligible facility costs have been determined to be \$255,427 after adjusting for distinct portions of the facility which do not have the principal purpose of pollution control. This is discussed in section 2 of this report.

The Environmental Quality Commission has directed that tax credit applications at or above \$250,000 go through an additional Departmental accounting review, to determine if costs were properly allocated. This review was performed under contract with the Department by the accounting firm of Boltd, Carlisle, & Smith (see attached report).

Other than the adjustments to the claimed facility cost made by the Department referenced in section 2, the cost allocation review of this application has identified no issues to be resolved and confirms the cost allocation as submitted in the application.

The actual cost of the facility properly allocable to pollution control as determined by using these factors is 100%.

5. <u>Summation</u>

- a. The facility was constructed in accordance with all regulatory deadlines.
- b. The facility is eligible for final tax credit certification in that the principal purpose of the facility is to comply with a requirement imposed by the Department to control air pollution.
- c. The facility complies with DEQ statutes, rules, and permit conditions.
- d. The portion of the facility cost that is properly allocable to pollution control is 100%.

6. <u>Director's Recommendation</u>

Based upon these findings, it is recommended that a Pollution Control Facility Certificate bearing the cost of \$255,427 with 100% allocated to pollution control, be issued for the facility claimed in Tax Credit Application No. T-4194.

Dennis Cartier SJO Consulting Engineers BKF:AQ August 31, 1994



CERTIFIED PUBLIC ACCOUNTANTS

FIR GROVE BUILDING, SUITE D 2001 FRONT STREET N.E. SALEM, OR 97303-6651 (503) 585-7751 FAX 370-3751

408 NORTH THIRD AVENUE STAYTON, OR 97383-1797 (503) 769-2186 FAX 769-4312

OREGON DEPARTMENT OF ENVIRONMENTAL QUALITY 811 S. W. Sixth Avenue Portland, OR 97204

At your request, we have performed agreed upon procedures with respect to South Coast Lumber Company Pollution Tax Control Credit Application No.4194 regarding the installation of a dust collection system. The aggregate claimed Facility costs on the Application were \$403,736 of which \$263,577 were claimed as eligible for the pollution control credit. The agreed upon procedures and our related findings are as follows:

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- 1. We read the Application, the Oregon Revised Statutes on Pollution Control Facilities Tax Credits - Section 468.150-468.190 (the Statutes) and the Oregon Administrative Rules on Pollution Control Tax Credits - Sections 340-16-005 through 340-16-050 (OAR'S).
- 2. We discussed the Application with Mr. Dennis Cartier of SJO Consulting Engineers, Inc. regarding the determination of the portion of the project costs eligible for the pollution control credit as well as other aspects of the project.
- 3. We also discussed the Application and Statutes with:
 - a) Mr. Gordon M. Ball of South Coast Lumber Company,
 - b) James P. Murphy of Deloitte & Touche LLP, and
 - c) Gary A. Wilson of KH2A Engineering Inc.
 - d) Dennis Cartier of SJO Consulting Engineers, Inc.
- 4. We inquired as to whether there were any direct or indirect Company costs charged to the Facility costs claimed in the Application. We were informed that no direct or indirect costs were included in the Application.

Based on our review of supporting documentation discussed in item no. 5 below, we noted no direct or indirect costs were included in the Application.

5. We reviewed supporting documentation for 87 percent of the amount claimed on the Application through review of vendor invoices. All costs which we reviewed supporting the Application appeared to be from third party vendors.

OREGON DEPARTMENT OF ENVIRONMENTAL QUALITY Portland, OR 97204 2

ΤO

6. We discussed with Gary A. Wilson of KH2A Engineering, Inc. the extent to which non-allowable costs were excluded from the Application. It was noted that the original application did not allocate engineering costs between the eligible and non-eligible portions of the project. Subsequent analysis of this issue by KH2A Engineering, Inc. and Dennis Cartier of SJO Consulting Engineers, Inc. resulted in an \$8,150 reduction in the eligible pollution control facility costs. The adjusted eligible pollution control facility costs were determined to be \$255,427 rather than the \$263,577 originally claimed. Based on our discussions and review of specific contractor invoices (see item no. 5) we agree that the original application overstated the eligible pollution control facility costs by \$8,150. Except for this \$8,150 adjustment, the Company had properly excluded non-allowable costs from the application.

Conclusion

Because the above procedures do not constitute an audit conducted in accordance with generally accepted auditing standards, we do not express an opinion on any of the items referred to above. In connection with the procedures referred to above, no matters came to our attention that caused us to believe that the Application should be adjusted, except for the \$8,150 of non-allowable costs noted in item no. 6 above. Had we performed additional procedures, or had we conducted an audit of the financial statements of the Company in accordance with generally accepted auditing standards, other matters might have come to our attention that would have been reported to you. This report relates only to the items specified above and does not extend to any financial statements of the Company taken as a whole.

This report is solely for the State of Oregon Department of Environmental Quality in the evaluating of the Company's Pollution Control Tax Credit Application and should not be used for any other purpose.

Boldt, Carlisle & Imite

Certified Public Accountants Salem, Oregon October 25, 1994

Application No. TC-4235

State of Oregon Department of Environmental Quality

TAX RELIEF APPLICATION REVIEW REPORT

1. <u>Applicant</u>

Intel Corporation 5200 NE Elam Young Parkway Hillsboro, Oregon 97124

The applicant owns and operates a microcomputer silicon wafer chip manufacturing facility in Aloha, Oregon.

Application was made for tax credit for an air pollution control facility.

2. <u>Description of Facility</u>

The claimed facility controls emissions of corrosive vapors and arsenic dust from an expansion of the D1 operations. The claimed facility consists of two Harrington wet scrubbers and support equipment. Also included in the claimed facility cost is a cartridge type air filter.

Total Claimed Facility Cost:\$709,435Arsenic Exhaust Filter System:\$177,722Acid Fume Scrubbers:\$531,713

A distinct portion of the claimed facility makes an insignificant contribution to the principal of pollution control. The claimed facility costs for the arsenic exhaust filter included \$147,726 which were not allocable to pollution control. These costs were associated directly with the design and installation of the arsenic bead blast process expansion and work place safety ventilation. \$7,303 of the indirect costs for the wet scrubbers were determined to not be allocable to pollution control. This determination was made because the applicant did not demonstrate installation of the scrubbers increased expenses beyond that incurred from the overall expansion project in the following cost categories: safety, first aid, fire protection, temporary structures, sanitation, bonds, and insurance.

Ineligible Costs:

\$155,369

Adjusted Facility Cost:

\$554,406

The applicant indicated the useful life of the facility is 10 years.

Accountant's Certification was provided.

3. <u>Procedural Requirements</u>

The facility is governed by ORS 468.150 through 468.190, and by OAR Chapter 340, Division 16.

The facility met all statutory deadlines in that:

Installation of the facility was substantially completed on July 1, 1993 and placed into operation on July 1, 1993. The application for final certification was received by the Department on May 11, 1994. The application was found to be complete on October 1, 1994, within two years of substantial completion of the facility.

4. <u>Evaluation of Application</u>

a. Rationale For Eligibility

The facilities are eligible because their sole purpose is to control air pollution. The Department is currently developing rules under Title III, of the Clean Air Act Amendments of 1990, for the control of air toxics. In the interim, the Department is implementing guidelines that require new sources and major modifications to existing resources to quantify their emissions of air toxics. Proposed emission levels are evaluated relative to established Significant Emission Rates (SER) for each air toxic. New sources which generate air toxics above the SER are required to model concentration levels for site specific conditions to determine if emissions meet or exceed acceptable risk levels. The emission rates for each air toxic as controlled by the scrubbers, is below the SER. The control is accomplished by the elimination of air contaminants as defined in ORS 468.005.

The air contaminants controlled by the two Harrington wet scrubbers are the emissions of the following toxic air contaminants from the fab process: H2SO4, H3PO4, HNO3, HCl, HF and NH4F. These substances are used in the applicant's photo- resist developer chambers, etcher reaction boxes, and wet stations used for microcomputer chip wafer surface purification. The fab area exhaust scrubber system consists of two Harrington ECH913-5LB 60,000 scfm horizontal cross-flow, packed bed wet scrubbers with two Pace fans (size CL-54-AFSWS) with 125 horsepower motors, recirculation pumps and support systems. A DEQ site inspection conducted in September of 1994, and was found to be in compliance.

The other portion of the claimed facility is a dust filter added during the expansion of the arsenic bead blast process. The system consists of a Flanders Model ES4X3CGF4 Bag-Out filter housing, filter elements and exhaust fan that collects arsenic particulate from the arsenic bead blast operation. The filter media is a pleated HEPA cartridge unit which is 99.99% efficient on a 0.3 micron particle. The Arsenic Bead Blast operation was an existing process operation that was expanded 1993. Prior to the expansion, the arsenic dust generated by the arsenic bead blast equipment was collected from the process operations and vented through ducting and

Application No. TC-4235 Page #3

discharged to the atmosphere without going through any filtration. As part of the expansion, several of the arsenic bead blast process modules were added. Ducting was added to remove the arsenic dust and other corrosive fumes away from the additional process equipment. The Flanders dust filter was added to the duct system just prior to the point it discharges the process exhaust to the atmosphere.

b. Eligible Cost Findings

In determining the percent of the pollution control facility cost allocable to controlling pollution, the following factors from ORS 468.190 have been considered and analyzed as indicated:

1) The extent to which the facility is used to recover and convert waste products into a salable or usable commodity.

The facility does recover waste products into a salable or usable commodity.

2) The estimated annual percent return on the investment in the facility.

There is no income generated from the operation of the claimed facilities. Therefore, there is no annual percent return on the investment.

3) The alternative methods, equipment and costs for achieving the same pollution control objective.

Wet scrubbers are technically recognized as an appropriate method for controlling the emissions of acid fumes to the atmosphere. The arsenic particulate filter unit that was installed is also the appropriate type of equipment to remove particulate.

 Any related savings or increase in costs which occur or may occur as a result of the installation of the facility.

There are no average annual savings associated with the use of these pollution control devices. The average annual cost of maintaining and operating the claimed facilities is \$162,209.

5) Any other factors which are relevant in establishing the portion of the actual cost of the facility properly allocable to the prevention, control or reduction of air pollution.

The eligible facility costs have been determined to be \$554,406 for the three pollution control devices after adjusting for distinct portions of the facility which do not have the principal purpose of pollution control. This is also discussed in section 2 of this report.

Application No. TC-4235 Page #4

The Environmental Quality Commission has directed that tax credit applications at or above \$250,000 go through an additional Departmental accounting review, to determine if costs were properly allocated. This review was performed under contract with the Department by the accounting firm of Symonds, Evans & Larson (see attached report).

Other than the adjustments to the claimed facility cost referenced in section 2, the cost allocation review of this application has identified no issues to be resolved and confirms the cost allocation as submitted in the application.

The actual cost of the facility properly allocable to pollution control as determined by using these factors is 100%.

5. <u>Summation</u>

- a. The facility was constructed in accordance with all regulatory deadlines.
- b. The facility is eligible for final tax credit certification in that the principal purpose of the facility is to comply with a requirement imposed by the Department to control air pollution.
- c. The facility complies with DEQ statutes, rules, and permit conditions.
- d. The portion of the facility cost that is properly allocable to pollution control is 100%.

6. <u>Director's Recommendation</u>

Based upon these findings, it is recommended that a Pollution Control Facility Certificate bearing the cost of \$554,406 with 100% allocated to pollution control, be issued for the facility claimed in Tax Credit Application No. TC-4235.

Dennis Cartier SJO Consulting Engineers October 31, 1994

Environmental Quality Commission 811 S.W. Sixth Avenue Portland, Oregon 97204

At your request, we have performed certain agreed-upon procedures with respect to Intel Corporation's (the Company's) Pollution Control Tax Credit Application No. 4235 (the Application) filed with the State of Oregon, Department of Environmental Quality (the DEQ) for the Air Pollution Control Facility in Aloha, Oregon (the Facility). The Application has a claimed Facility cost of \$709,435 and was amended to \$554,406 by the DEQ and SJO Consulting Engineers, Inc., a contractor for the DEQ. Our procedures, findings and conclusion are as follows:

Procedures:

- We read the Application, the Oregon Revised Statutes on Pollution Control Facilities Tax Credits – Sections 468.150 through 468.190 (the Statutes), and the Oregon Administrative Rules on Pollution Control Tax Credits – Sections 340-16-005 through 340-16-050 (OAR's).
- 2. We reviewed certain documents which support the cost of the Facility.
- 3. We discussed the Application, the Statutes and OAR's with Brian Fields of the DEQ, and Charles Bianchi and Dennis Cartier, independent contractors of the DEQ.
- 4. We discussed certain components of the Application with various Company personnel, including Lisa King and John Arand.
- 5. We toured the Facility with Mr. Arand and Ms. King.
- 6. We requested that Company personnel confirm the following:
 - a) There were no related parties or affiliates of the Company which had billings which were included in the Application.
 - b) The capacity of the Facility is adequate for the Company's present operations and does not include significant capacity for potential future operations.
 - c) The Company does not presently derive any income or cost savings from operating the Facility.

- d) In accordance with ORS Section 468.155(2)(e), the Facility is not a "replacement or reconstruction of all or a part of any facility for which a pollution control facility certificate has previously been issued..."
- e) All supply costs included in the Application related to the installation of the Facility and did not include ongoing operating supplies.
- f) All internal labor costs included in the Application related directly to the installation of the Facility and were not related to maintenance and repairs.
- g) No previously existing equipment was sold as a result of the installation of the Facility.

Findings:

1. through 5.

No matters came to our attention that caused us to believe that the amended claimed Facility cost should be adjusted.

6. Company personnel confirmed in writing that such assertions were true and correct.

Conclusion:

Because the above procedures do not constitute an audit conducted in accordance with generally accepted auditing standards, we do not express an opinion on any of the items referred to above. In connection with the procedures referred to above, no matters came to our attention that caused us to believe that the amended claimed Facility cost should be adjusted. Had we performed additional procedures or had we conducted an audit of the financial statements of the Company in accordance with generally accepted auditing standards, other matters might have come to our attention that would have been reported to you. This report relates only to the items specified above and does not extend to any financial statements of the Company, taken as a whole.

This report is solely for the use of the State of Oregon Environmental Quality Commission and Department of Environmental Quality in evaluating the Company's Pollution Control Tax Credit Application No. 4235 with respect to its Air Pollution Control Facility in Aloha, Oregon and should not be used for any other purpose.

Symonds, Evans + Larson

November 10, 1994

Environmental Quality Commission 811 S.W. Sixth Avenue Portland, Oregon 97204

At your request, we have performed certain agreed-upon procedures with respect to Oregon Steel Mills, Inc.'s (the Company's) Pollution Control Tax Credit Application No. T-4243 (the Application) filed with the State of Oregon, Department of Environmental Quality (DEQ) for the Solid Waste Pollution Control Facility in Portland, Oregon (the Facility). The Application has a claimed Facility cost of \$12,889,408. Our procedures, findings and conclusion are as follows:

Procedures:

- We read the Application, the Oregon Revised Statutes on Pollution Control Facilities Tax Credits – Sections 468.150 through 468.190 (the Statutes), and the Oregon Administrative Rules on Pollution Control Tax Credits – Sections 340-16-005 through 340-16-050 (OAR's).
- 2. We reviewed certain documents which support the cost of the Facility.
- 3. We discussed the Application, the Statutes and OAR's with Bill Bree of the DEQ and Charles Bianchi, an independent contractor of the DEQ.
- 4. We discussed certain components of the Application with Terry MacDonald, Judy Roberts and Jerry Richartz of the Company.
- 5. We toured the Facility with Mr. Richartz.
- 6. We requested that Company personnel confirm the following:
 - A) All amounts included in the Application related directly to pollution control, and none of the amounts included in the Application related to costs that would have been incurred by the Company to upgrade/maintain the Facility in the normal course of business.
 - B) All supply costs included in the Application related to the installation of the Facility and did not include unrelated operating supplies.

- C) All internal labor costs included in the Application approximated the Company's actual payroll costs and were reasonable based on the work performed. Additionally, all internal costs included in the Application related directly to the construction of the Facility and were not related to maintenance and repairs.
- D) The payroll costs included in the Application for Dick Bird (the Company's Director of Engineering) were based on actual hours and costs directly related to the construction of the Facility.
- E) In accordance with ORS 468.155(2)(e), the Facility is not a "replacement or reconstruction of all or a part of any Facility for which a pollution control facility certificate has previously been issued..."
- F) There was no previously existing equipment that was sold as a result of the construction of the Facility.
- G) The construction of the Facility was completed and began operating in December 1992.
- H) All costs included in the Application which were charged by related parties were based on their actual costs and did not include any mark-up for profit.
- I) The total cost of the dryer unit and related storage bins (including internal labor and parts) was \$148,434.
- J) The Company will not receive reimbursement from Roger B. Ek & Associates or Glassification International Limited for any of the costs included in the Application.
- K) There are no provisions, sections, comments, etc., in the Joint Venture Agreement of Glassification International Limited which would affect the allowable costs of the Application.
- L) Based on Company personnel's knowledge of the industry and the glassification process, the useful life of the Facility is 15 years.
- M) All estimates and data which were used to calculate the return on investment calculation are true and accurate to the best of Company personnel's knowledge and belief.

- N) The Company has no plans to utilize the Facility to generate additional revenue or reduce costs related to the disposal of any hazardous wastes other than the electric arc furnace dust.
- O) All costs of the Facility related to research, development and start-up were excluded from the Application.

Findings:

1. through 5.

No matters came to our attention that caused us to believe that the claimed Facility costs should be adjusted, except for \$871,939 of non-allowable costs related to the following:

Asbestos removal	\$ 11,907
Maintenance and repairs	6,055
Charges from Glassification International Limited (a related party) for labor and materials that could not be supported by original vendor invoices.	76,400
Charges from Roger B. Ek (a related party) which appeared to be related to research and development	85,000
Charges incurred subsequent to when the Facility was placed in service (December 1992)	449,209
Spare parts for furnace charger	18,187
Spare parts for electrodes	69,395
Safety rails	7,352
Dryer unit and 6 storage bins that are no longer in use	
Total non-allowable costs	<u>\$ 871,939</u>

As a result, the allowable costs for the Application should be reduced to \$12,017,469.

6. Company personnel confirmed in writing that such assertions were true and correct.

Conclusion:

Because the above procedures do not constitute an audit conducted in accordance with generally accepted auditing standards, we do not express an opinion on any of the items referred to above. In connection with the procedures referred to above, no matters came to our attention that caused us to believe that the specified items should be adjusted, except as noted above. Had we performed additional procedures or had we conducted an audit of the financial statements of the Company in accordance with generally accepted auditing standards, other matters might have come to our attention that would have been reported to you. This report relates only to the items specified above and does not extend to any financial statements of the Company, taken as a whole.

This report is solely for the use of the State of Oregon Environmental Quality Commission and Department of Environmental Quality in evaluating the Company's Pollution Control Tax Credit Application No. T-4243 with respect to its Solid Waste Pollution Control Facility in Portland, Oregon and should not be used for any other purpose.

Symonds, Evans & Larson

October 26, 1994

Application No. T-4252

STATE OF OREGON Department of Environmental Quality

TAX RELIEF APPLICATION REVIEW REPORT

1. Applicant

Willamette Industries, Inc 1300 S. W. Fifth Avenue Portland, Oregon 97210

The applicant owns and operates a pulp and paper mill in Albany, Oregon. Application was made for tax credit for a modification and expansion of a secondary fiber utilization system from 600 ton/day to 750 ton/day capacity.

2. <u>Description of Facility</u>

The facility is a waste paper recovery and utilization system for old corrugated cardboard (OCC) which results in the expansion of mill capacity for utilization of OCC from 600 tons/day to 750 tons/day including replacement of some existing equipment and installation of a new contamination dispersion process. The facility consists of the following:

- a. Black and Clauson 24', 800HP, repulper (750 tons/day);
- b. Contaminant dispersion system (300 tons/day);
 One 300 ton/day Celleco screw press;
 One Sunds Defibrator model PSA 390;
 Two Sunds Defibrator transfer screws;
 ABB Process Automation computer control system;
- c. Bale conveyor and processing (750 tons/day); Three 10' wide Krause bale conveyors; Nielsen and Hiebert bale dewiring machine; SSI Model ED5000 bale shredder;
- d. 200 ton tile high density storage tank (300 tons/day);
- e. ABB Process Automation Computer control system w/ control room (750 tons/day);
- f. Pumps and piping (300-750 tons/day);
- g. Electrical systems (300-750 tons/day); One 5,000 KVA Transformer; Three 1,000 KVA transformers; Electronic controls and instruments;
- h. Two Rayfo Model DW-10078 reject material dewatering presses (750 tons/day);
- i. Rejects screws, conveyors and press (750 tons/day); Rejects compactor;
- j. Black and Clauson screening and cleaning equipment (150-300 tons/day);

One 25" liquid cyclone cleaner; One hydropurger, model HP33-3000;

Tax Credit No. T-4252 Page-2

One model III ultrascreen; Two Model Ultra V500 pressure screens; One 64-3-CBT x-clone reverse cleaner bank; Ninety retroclone reverse cleaners; One rebuild 16', 300 ton/day, Dorr Oliver decker;

- Recycled paper stock preparation system for storage, handling and distribution of recycled fiber to paper machines, including two 30,000 gallon stainless steel storage tanks (150-300 tons/day);
- Pumps, piping, foundations, enclosures, and support steel (750 tons/day);
- m. 120' by 30' material receiving platform (750 tons/day);

n. 100 foot Toledo Model 7560 truck scale (750 tons/day).

Claimed facility costs include:

a. Repulper	\$	1,411,722
b. Dispersion system	\$	930,991
c. Shredder/dewire system		756,236
d. 200 ton high density tank	\$	701 , 478
e. ABB Automation computer systems		2,759,944
f. Pipes, valves and fillings		1,762,662
g. Electrical equipment and power supply	\$	1,526,468
h. Reject press	\$	228,643
i. Compactor	\$	101,718
j. Screens and cleaners		393,141
k. Agitators and pumps		291,989
1. Pipe bridge and equipment access		245,897
m. Receiving platform and enclosure		700 762
n. Truck scales	\$ \$	76,682
o. Other auxiliary and support equipment	\$	390,129
Total claimed facility cost	\$1	12,278,462

An Independent accountant certification of costs was provided.

3. <u>Procedural Requirements</u>

The facility is governed by ORS 468.150 through 468.190 and by OAR Chapter 340, Division 16.

The facility met all statutory deadlines in that:

- a. Installation of the facility was started on September 1, 1992.
- b. The facility was placed into operation on May 1, 1993.
- c. The application for tax credit was submitted to the Department on June 27, 1994, within two years of substantial completion of the facility.
- d. The application was found to be technically complete and was filed on September 15, 1994.

Tax Credit No. T-4252 Page-3

4. Evaluation of Application

- a. The facility is eligible because the sole purpose of the claimed facility is to reduce a substantial quantity of solid waste through recycling.
- b. Eligible Cost Findings

In determining the percent of the pollution control facility cost allocable to pollution control, the following factors from ORS 468.190 have been considered and analyzed as indicated:

1) The extent to which the facility is used to recover and convert waste products into a salable or usable commodity.

This factor is applicable because the facility is used exclusively to process recyclable materials.

The percent allocable by using this factor would be 100%.

- 2) The estimated annual percent return on the investment in the facility.
 - A) The administrative rules amendments adopted January 29, 1993 establish a separate set of standards for calculation of return on investment for pollution control facilities which are "integral to the applicant's business".

OAR 340-16-030(g) states: "'Pollution control facilities integral to the operation of the applicant's business' means that the business is unable to operate or is only able to operate at reduced income levels, without the claimed pollution control facility." The definition continues by providing four factors that the Department may use to determine whether pollution control facilities are integral to the operation of the business.

The applicant has reviewed the four factors in OAR 340-16-030(g) as they relate to the new secondary fiber system at the Albany pulp and paper mill. Based upon that review they conclude that the claimed pollution control facility is not integral to the operation of the mill. Pollution control facilities represent 16 percent (less than 25%) of the total assets of the mill. The claimed facility has reduced the gross revenues the mill. And, the operating expenses of all the claimed or certified facilities are 22 percent (less than 50%) of the operating expenses of the mill.

Using a general evaluation, the claimed facility is an integrated part of a mill which manufactures pulp and paper from a combination of virgin wood fiber and reclaimed paper fiber. All of the secondary fiber used by the mill passes through the claimed facility as some point in the repulping process. That secondary fiber stock is eventually utilized in the paper making portion of the mill. The installation of

Tax Credit No. T-4252 Page-4

the claimed facility improves the handling of all secondary fiber and has resulted in an increase in secondary fiber content in the final paper produced from 43.3 percent secondary fibers to 53.3 percent secondary fibers. It would appear, in general, that the preparation of secondary fiber was an integral part of the operation of the pulp and paper mill.

On the other hand, the Albany mill could operate and produce an equivalent paper product without the use of secondary fibers. The choice to use secondary fibers in this mill has a substantial impact upon the business but the failure to do so would not render the business unable to operate.

It is the staff recommendation that the claimed pollution control facility not be considered integral to the operation of the business

Actual Cost of Claimed Facility

I) The applicant has received tax credit certification of two previous applications for equipment related to this facility. A review of the specific equipment claimed in the present application and each of the previous applications identified two areas where the new application contained equipment which was partially in replacement of previously certified items.

> Three pumps, claimed in previous tax credit applications, t-917 (1977) and t-1290 (1980) were replaced by equipment in this new facility. The present replacement value of the previously certified equipment is \$56,529.

II) The Environmental Quality Commission has directed that tax credit applications at or above \$250,000 go through an additional accounting review to determine if costs were properly allocated. This review was performed under contract by the accounting firm of Coopers & Lybrand. The cost allocation review of this application has identified \$235,141 of non allowable costs for spare parts. This amount has been subtracted from the facility costs.

Original cost of claimed facility \$12,278,462 Replacement equipment \$ 56,529 Other ineligible costs \$235,141 Total ineligible cost \$291,670 Adjusted cost of claimed facility \$11,986,792

B)

C) Annual Percentage Return on Investment

The annual percentage return on investment was calculated by comparing the cost per ton of product, linerborad, before and after installation of the claimed facility multiplied by annual production. This figure produces an average annual cash flow for this facility of \$880,418. This cash flow and "adjusted cost of the claimed facility" result in a return on investment factor of (13.61).

D) Useful Life

The applicant has claimed a ten year useful life. As a result of using Table 1, OAR 340-16-030, for a ten year useful life, the return on investment for the claimed facility is 0% and the percent allocable is 100%.

3) The alternative methods, equipment, and costs for achieving the same pollution control objective.

The applicant considered other methods for processing recyclable materials and determined that this method was environmentally acceptable and economically feasible. It is the Department's determination that the proposed facility is an acceptable method of achieving the material recovery objective.

4) <u>Any related savings or decrease in costs which occur or may</u> occur as a result of the installation of the facility.

There are no savings, other than those considered in (2) above, associated with the purchase or use of this facility.

5) Any other factors which are relevant in establishing the portion of the actual cost of the facility properly allocable to the prevention, control or reduction of air, water, or noise pollution or solid or hazardous waste, or to recycle or properly dispose of used oil.

There are no other factors to consider in establishing the actual cost of the facility properly allocable to material recovery from solid waste.

The actual cost of the facility properly allocable to pollution control as determined by using these factors is 100%.

5. <u>Summation</u>

- a. The facility was constructed in accordance with all regulatory deadlines.
- b. The facility is eligible for tax credit certification in that the sole purpose of the facility is to reduce a substantial quantity of solid waste through recycling.
- c. The facility complies with DEQ statutes and permit conditions.

d. The portion of the facility cost that is properly allocable to pollution control is 100%.

6. Director's Recommendation

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Based upon the findings, it is recommended that a Pollution Control Facility certificate bearing the cost of \$11,986,792 with 100% allocable to pollution control be issued for the facility claimed in Tax Credit Application No. T-4252

WRB:wrb wp51\tax\tc4252RR.STA (503)229-5934 October 31, 1994

10



a professional services firm

telephone (503) 227-8600 facsimile (503) 224-1579

Oregon Department of Environmental Quality 811 S. W. Sixth Avenue Portland Oregon 97204

At your request, we have performed certain agreed upon procedures with respect to Willamette Industries, Inc. (the Company) Pollution Tax Control Credit Application No. 4252, regarding the Secondary Fiber Expansion in Linn County, Oregon (the Facility). The aggregate claimed Facility costs on the Application were \$12,278,462. The agreed upon procedures and related findings are as follows:

- 1. We read the Application, the Oregon Revised Statutes on Pollution Control Facilities Tax Credits - Sections 469.150-468.190 (the Statutes) and the Oregon Administrative Rules on Pollution Control Tax Credits - Sections 340-16-005 through 340-16-050 (OAR'S).
- 2. We discussed the Application and Statutes with Mr. Charles Bianchi and Mr. William Bree of the Oregon Department of Environmental Quality (DEQ).
- 3. We discussed the Application and Statutes with Mr. James Aden, Assistant Tax Manager of the Company.
- 4. We inquired as to whether there were any direct or indirect Company costs charged to the Facility costs claimed in the Application. We were informed that \$935 of direct costs were included in the Application.

Based on our review of supporting documentation discussed in item no. 5 below, we noted that the direct costs charged to the Application appeared to be properly allowable.

- 5. We reviewed supporting documentation for 73% of the amount claimed on the Application through review of vendor invoices. All costs which we reviewed supporting the Application appeared to be from third party vendors.
- 6. We discussed with Mr. James Aden, Assistant Tax Manager for the Company, the extent to which non-allowable costs were excluded from the Application. This was accomplished by reviewing specific contractor invoices (see item no. 5) with Mr. Aden. We determined that the Company expended \$235,141 for spare parts which related to the Facility. We also noted that the Company expended \$315,347 which related to the project but were incurred after the May 1993 facility start-up date. Based on our review and consultation with Mr. Charles Bianchi and Mr. William Bree concerning these two findings, we have determined that the expenditure for spare parts are non-allowable costs. Accordingly, the Facility costs claimed on the Application should have been \$12,043,321 instead of \$12,278,462.

Oregon Department of Environmental Quality Page Two

Because the above procedures do not constitute an audit conducted in accordance with generally accepted auditing standards, we do not express an opinion on any of the items referred to above. In connection with the procedures referred to above, no matters came to our attention that caused us to believe that the Application should be adjusted except for the \$235,141 of costs noted in item no. 6 above. Had we performed additional procedures, or had we conducted an audit of the financial statements of the Company in accordance with generally accepted auditing standards, other matters might have come to our attention that would have been reported to you. This report relates only to the items specified above and does not extend to any financial statements of the Company taken as a whole.

This report is solely for the State of Oregon Department of Environmental Quality in the evaluating the Company's Pollution Control Tax Credit Application and should not be used for any other purpose.

Coopers & Lybrand L.L.P.

Portland, Oregon October 27, 1994

Application No. TC-4300

State of Oregon Department of Environmental Quality

TAX RELIEF APPLICATION REVIEW REPORT

1. <u>Applicant</u>

Neste Resins Corporation 1600 Valley River Drive, Suite 390 Eugene, OR 97401

The applicant owns and operates a synthetic resin and formaldehyde manufacturing facility in Springfield, Oregon.

Application was made for tax credit for an air pollution control facility.

2. <u>Description of Facility</u>

The facility controls formaldehyde, phenol and methanol emissions which are classified as Hazardous Air Pollutants (HAP). These emissions are generated from the production and storage of formaldehyde, phenolic and urea-formaldehyde resins. The facility consists of a Durr brand regenerative thermal oxidizer (RTO) and the necessary ducting from the process and storage tanks to the RTO.

Claimed Facility Cost:

\$981,109

A distinct portion of the claimed facility makes an insignificant contribution to the principal of pollution control. The applicant claimed \$5,162 for interest that would have paid if the funds for the project were borrowed. In addition the applicant claimed \$17,842 for spare parts.

Ineligible Costs: \$23,004

Adjusted Facility Cost:

\$958,105

Accountant's Certification was provided.

The applicant indicated the useful life of the facility is 15 years.

Procedural Requirements

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The facility is governed by ORS 468.150 through 468.190, and by OAR Chapter 340, Division 16.

The facility met all statutory deadlines in that:

Installation of the facility was substantially completed on February 18, 1994, and placed into operation on January 17, 1994. The application for final certification was received by the Department on September 26, 1994. The application was found to be complete on October 2, 1994, within two years of substantial completion of the facility.

Evaluation of Application

4.

a. Rationale For Eligibility

The facility is eligible because the sole purpose of the facility is for air pollution control in anticipation of the requirements of OAR Chapter 340, Divisions 20, General Air Pollution Control Regulations and 32, Hazardous Air Pollutants. These divisions will require existing sources who have the potential to emit 10 tons per year of any one HAP or an aggregate of 25 tons per year of two or more HAPs to comply with the standards set by the Clean Air Act. The emission reduction is accomplished by the elimination of air contaminants as defined in ORS 468A.005.

The sole purpose of the facility is to eliminate over 164,000 pounds per year of HAPs air emissions. This reduction is accomplished by the installation of a fume collection ducting system that collects the emissions and feeds them to the RTO. The RTO has a destruction efficiency of 98.5% The majority of the emissions are generated as a result of the production of formaldehyde and phenolic resins. Additional emissions are collected from the 21 raw material and finished product storage tanks. The RTO operates at 1520°F and does not require any auxiliary fuel due to the high heating value of the incoming gases. The plant was found to be in compliance during a recent inspection by the Lane Regional Air Pollution Authority.

b. Eligible Cost Findings

In determining the percent of the pollution control facility cost allocable to pollution control, the following factors from ORS 468.190 have been considered and analyzed as indicated:

1) The extent to which the facility is used to recover and convert waste products into a salable or usable commodity.

The facility does not recover or convert waste products into a salable or usable commodity.

2) The estimated annual percent return on the investment in the facility.

There is no income or savings from the operation of the claimed facility. Therefore, there is no return on the investment.

3) The alternative methods, equipment and costs for achieving the same pollution control objective.

The applicant has stated that absorber gases are at a maximum recycle within the process to minimize the load to the RTO. A catalytic incinerator and a recuperative thermal oxidizer were evaluated. The RTO was chosen because of its high destruction and thermal efficiency. The RTO the applicant installed operates at higher than average destruction efficiency.

 Any related savings or increase in costs which occur or may occur as a result of the installation of the facility.

There are no annual savings associated with the use of the pollution control device. The average annual cost of maintaining and operating the facility is \$37,000.

5) Any other factors which are relevant in establishing the portion of the actual cost of the facility properly allocable to the prevention, control or reduction of air pollution.

The eligible facility costs have been determined to be \$958,105 after adjusting for distinct portions of the facility which do not have the principal purpose of pollution control. This is discussed in section 2 of this report.

The Environmental Quality Commission has directed that tax credit applications at or above \$250,000 go through an additional Departmental accounting review, to determine if costs were properly allocated. This review was performed under contract with the Department by the accounting firm of Symonds, Evans & Larson (see attached report).

Other than the adjustments to the claimed facility cost referenced in section 2, the cost allocation review of this application has identified no issues to be resolved and confirms the cost allocation as submitted in the application.

The actual cost of the facility properly allocable to pollution control as determined by using these factors is 100%.

5. <u>Summation</u>

- a. The facility was constructed in accordance with all regulatory deadlines.
- b. The facility is eligible for final tax credit certification in that the sole purpose of the facility is to reduce air pollution.
- c. The facility complies with DEQ statutes, rules and permit conditions.
- d. The portion of the facility cost that is properly allocable to pollution control is 100%.

6. <u>Director's Recommendation</u>

Based upon these findings, it is recommended that a Pollution Control Facility Certificate bearing the cost of \$958,105 with 100% allocated to pollution control, be issued for the facility claimed in Tax Credit Application No. TC-4300.

Dennis E. Cartier SJO Consulting Engineers

October 24, 1994

SYMONDS, EVANS & LARSON CERTIFIED PUBLIC ACCOUNTANTS

Environmental Quality Commission 811 S.W. Sixth Avenue Portland, Oregon 97204

At your request, we have performed certain agreed-upon procedures with respect to Neste Resins Corporation's (the Company's) Pollution Control Tax Credit Application No. 4300 (the Application) filed with the State of Oregon, Department of Environmental Quality (the DEQ) for the Air Pollution Control Facility in Springfield, Oregon (the Facility). The Application has a claimed Facility cost of \$981,109. Our procedures, findings and conclusion are as follows:

Procedures:

- We read the Application, the Oregon Revised Statutes on Pollution Control Facilities Tax Credits – Sections 468.150 through 468.190 (the Statutes), and the Oregon Administrative Rules on Pollution Control Tax Credits – Sections 340-16-005 through 340-16-050 (OAR's).
- 2. We reviewed certain documents which support the cost of the Facility.
- 3. We discussed the Application, the Statutes and OAR's with Brian Fields of the DEQ and Dennis Cartier of SJO Consulting Engineers, Inc., a contractor for the DEQ.
- 4. We discussed certain components of the Application with various Company personnel, including Joseph Anderson, Larry Lowenkron, Cathy Bates and Marlin Franssen.
- 5. We toured the Facility with Mr. Anderson
- 6. We requested that Company personnel confirm the following:
 - a) There were no related parties or affiliates of the Company which had billings which were included in the Application.
 - b) The capacity of the Facility is adequate for the Company's present operations and does not include significant capacity for potential future operations.

SYMONDS, EVANS & LARSON CERTIFIED PUBLIC ACCOUNTANTS

- c) The Company does not presently derive any income or cost savings from operating the Facility.
- d) In accordance with ORS Section 468.155(2)(e), the Facility is not a "replacement or reconstruction of all or a part of any facility for which a pollution control facility certificate has previously been issued..."
- e) All supply costs included in the Application related to the installation of the Facility and did not include ongoing operating supplies.
- f) All internal labor costs included in the Application related directly to the installation of the Facility and were not related to maintenance and repairs.
- g) The estimated percentages used to compute the cost of payroll for Mr. Anderson and Roger Smith that was allocated to the Facility are true and accurate to the best of the Company personnel's knowledge and belief.
- h) No previously existing equipment was sold as a result of the installation of the Facility.

Findings:

1. through 5.

No matters came to our attention that caused us to believe that the Application should be adjusted, except for \$23,004 of non-allowable costs related to the following:

Description	Amount
Capitalized interest Spare parts	\$ 5,162 <u>17,842</u>
Total non-allowable costs	<u>\$ 23,004</u>

As a result, the allowable costs for the Application should be reduced to \$958,105.

6. Company personnel confirmed in writing that such assertions were true and correct.

Conclusion:

Because the above procedures do not constitute an audit conducted in accordance with generally accepted auditing standards, we do not express an opinion on any of the items referred to above. In connection with the procedures referred to above, no matters came to our attention that caused us to believe that the specified items should be adjusted, except as noted. Had we performed

SYMONDS, EVANS & LARSON CERTIFIED PUBLIC ACCOUNTANTS

additional procedures or had we conducted an audit of the financial statements of the Company in accordance with generally accepted auditing standards, other matters might have come to our attention that would have been reported to you. This report relates only to the items specified above and does not extend to any financial statements of the Company, taken as a whole.

This report is solely for the use of the State of Oregon Environmental Quality Commission and Department of Environmental Quality in evaluating the Company's Pollution Control Tax Credit Application No. 4300 with respect to its Air Pollution Control Facility in Springfield, Oregon and should not be used for any other purpose.

Symonds, Evans & Larson

November 10, 1994

Application No. T-4243

STATE OF OREGON Department of Environmental Quality

TAX RELIEF APPLICATION REVIEW REPORT

1. Applicant

Oregon Steel Mills, Inc. P O Box 2760 Portland, Oregon 97208-0363

The applicant owns and operates a steel mill, which includes a melt shop and plate rolling mill, in Portland, Oregon. Application was made for tax credit for a baghouse dust glassification plant.

2. <u>Description of Facility</u>

The facility is an electric arc furnace (EAF) baghouse dust glassification plant which processes mineral powder, classified as a KO61 hazardous waste, into non-leachable glass products. The Glassification process receives EAF dust directly from the baghouse blends the dust with other ingredients and melts the mixture in an electric glass furnace. The glass product is then granulated and screened prior to sale. The facility utilizes 8,000 tons per year of EAF dust. The facility consists of the following:

a. b. c. d. e. f. g. h.	24 storage and processing b 3 electric glass furnaces; Wet granulation system; Wet frit storage building; Drying system Screening and classificatio Finished product storage an Electrical systems includin controls and instrume Computer process control an	n system; d shipping area; g transformers, el nts;	ectronic
Claimed	facility costs include:		
a.			7,614,361
	Design	1,682,764	,,,
	Construction management	542,463	
	Mechanical/structural	5,212,613	
	Misc.	176,521	
b.	Furnace		1,048,142
	Design	284,604	
	Construction management	43,239	
	Mechanical/structural	720,299	
	Misc.		
c.	Electrical		3,165,914
	Design	753 , 159	
	Construction management	110,769	
	Mechanical/structural	2,226,333	
	Misc.	75,653	
d.	Building		1,060,990
	Design	100,000	
	Construction management	- 40	
	Site prep/building	960,990	
	Misc.		A10 000 407
10	tal claimed facility cost		\$12,889,407

An independent accountant's certification of costs was provided.

3. <u>Procedural Requirements</u>

The facility is governed by ORS 468.150 through 468.190 and by OAR Chapter 340, Division 16.

The facility met all statutory deadlines in that:

- a. Installation of the facility was started on August 1, 1991.
- b. The facility was placed into operation on December 1, 1992.
- c. The application for tax credit was submitted to the Department on May 27, 1994, within two years of substantial completion of the facility.
- d. The application was found to be technically complete and was filed on September 15, 1994.

4. <u>Evaluation of Application</u>

- a. The facility is eligible because the sole purpose of the claimed facility is to reduce a substantial quantity of solid waste through recycling.
- b. Eligible Cost Findings

In determining the percent of the pollution control facility cost allocable to pollution control, the following factors from ORS 468.190 have been considered and analyzed as indicated:

1) <u>The extent to which the facility is used to recover and</u> <u>convert waste products into a salable or usable commodity</u>.

This factor is applicable because the facility uses a material which would other wise be solid waste as feedstock to produce a glass product.

The percent allocable by using this factor would be 100%.

- 2) The estimated annual percent return on the investment in the facility.
 - A) The administrative rule amendments adopted January 29, 1993 establish a separate set of standards for calculation of return on investment for pollution control facilities which are "integral to the applicant's business".

The applicant has reviewed the four factors in OAR 340-16-030(g) as they relate to the EAF baghouse dust glassification plant. Based upon that review they conclude that the claimed pollution control facility is not integral to the operation of the steel mill. Pollution control facilities represent less than 25% of the total assets of the mill. The claimed facility has reduced the gross revenues of the mill. And, the operating expenses of all claimed or certified facilities are less than 50% of the operating expenses of the mill.

Tax Credit No. T-4243 Page-3

It is the staff recommendation that the claimed pollution control facility not be considered integral to the operation of the business

B) Actual Cost of Claimed Facility

The Environmental Quality Commission has directed that tax credit applications at or above \$250,000 go through an additional accounting review to determine if costs were properly allocated. This review was performed under contract by the accounting firm of Coopers & Lybrand. The cost allocation review of this application has identified \$871,939 of non allowable costs as outlined in the attached letter. This amount has been subtracted from the facility costs.

Original cost of claimed facility \$12,889,407 Total ineligible cost \$871,939 Adjusted cost of claimed facility \$12,017,469

- C)
 -) Annual Percentage Return on Investment

The annual percentage return on investment was calculated by comparing the calculated average annual income and operating expenses for the claimed facility. This calculation produces an average annual cash flow for this facility of \$467,703. This cash flow and "adjusted cost of the claimed facility" result in a return on investment factor of 25.69%.

The applicant has claimed a fifteen year useful life. As a result of using Table 1, OAR 340-16-030, for a fifteen year useful life, the return on investment for the claimed facility is 0% and the percent allocable is 100%.

3) The alternative methods, equipment, and costs for achieving the same pollution control objective.

The applicant considered other methods for processing recyclable materials and determined that this method was environmentally acceptable and economically feasible. It is the Department's determination that the proposed facility is an acceptable method of achieving the material recovery objective.

4) <u>Any related savings or decrease in costs which occur or may</u> occur as a result of the installation of the facility.

There are no savings, other than those considered in (2) above, associated with the purchase or use of this facility.

5) Any other factors which are relevant in establishing the portion of the actual cost of the facility properly allocable to the prevention, control or reduction of air, water, or noise pollution or solid or hazardous waste, or to recycle or properly dispose of used oil.

There are no other factors to consider in establishing the actual cost of the facility properly allocable to material recovery from solid waste.

The actual cost of the facility properly allocable to pollution control as determined by using these factors is 100%.

5. <u>Summation</u>

- a. The facility was constructed in accordance with all regulatory deadlines.
- b. The facility is eligible for tax credit certification in that the sole purpose of the facility is to reduce a substantial quantity of solid waste through recycling.
- c. The facility complies with DEQ statutes and permit conditions.
- d. The portion of the facility cost that is properly allocable to pollution control is 100%.

6. <u>Director's Recommendation</u>

Based upon the findings, it is recommended that a Pollution Control Facility certificate bearing the cost of \$12,017,469 with 100% allocable to pollution control be issued for the facility claimed in Tax Credit Application No. T-4243

WRB:wrb wp51\tax\tc4243RR.STA (503)229-5934 October 31, 1994

Environmental Quality Commission

Rule Adoption Item

□ Action Item

□ Information Item

Agenda Item <u>C</u> December 2, 1994 Meeting

Title:

Acid Rain, Stratospheric Ozone Protection, Radionuclide NESHAP

Summary:

These proposed rules would adopt by reference the Federal rules for acid rain, stratospheric ozone protection and radionuclide NESHAP. Adoption of these rules would provide the Department with the legal authority to place these Federal regulations in federal operating permits, as required under Title V of the 1991 Clean Air Act Amendments.

Department Recommendation:

The Department recommends that the Commission adopt these rules.

You lea Daylon Division Administrator Director **Report** Author

November 15, 1994

[†]Accommodations for disabilities are available upon request by contacting the Public Affairs Office at (503)229-5317(voice)/(503)229-6993(TDD).

ADDENDUM

Hazardous Air Pollutants

Emission Standards and Procedural Requirements for Hazardous Air Contaminants Regulated Prior to the 1990 Amendments to the Federal Clean Air Act

Federal Regulations Adopted by Reference 340-32-5520

(1) Except as provided in section (2) of this rule, 40 CFR Part 61, Subparts A through F, \underline{I} , J, L, N through P, V, and Y through FF (July 1, 1993) are by this reference adopted and incorporated herein.

(2) Where "Administrator" or "EPA" appears in 40 CFR Part 61, "Department" shall be substituted, except in any section of 40 CFR Part 61 for which a federal rule or delegation specifically indicated that authority will not be delegated to the state.
(3) If a discrepancy is determined to exist between OAR 340-32-5530 through 340-32-5650 and the applicable sections of 40 CFR Part 61, 40 CFR Part 61 shall apply.

Emission Standards for Airborne Radionuclides

340-32-5585

(1) Emission Standard for Airborne Radionuclide Emission From Facilities Licensed by the Nuclear Regulatory Commission.

(a) Applicability

(A) This rule applies to any federal operating permit source which is a major source under OAR 340-28-110(45) that is also subject to 40 CFR 61.100.

Date: November 15, 1994

To: Environmental Quality Commission From: Lydia Taylor, Interim Director *Jugaeo Daylor*

Subject: Agenda Item C, December 2, 1994, EQC Meeting

Acid Rain, Stratospheric Ozone Protection, Radionuclide NESHAP

Background

On August 11, 1994, the Director authorized the Air Quality Division to proceed to a rulemaking hearing on proposed rules which would adopt Federal regulations by reference allowing DEQ to place acid rain, stratospheric ozone protection, and radionuclide regulations in Federal Operating Permits.

Pursuant to the authorization, hearing notice was published in the Secretary of State's <u>Bulletin</u> on September 1, 1994. On August 18, 1994, the Hearing Notice and informational materials were mailed to the mailing list of those persons who have asked to be notified of rulemaking actions, and to a mailing list of persons known by the Department to be potentially affected by or interested in the proposed rulemaking action.

A Public Hearing was held September 20, 1994 in Portland, Oregon with Patti Seastrom serving as Presiding Officer. The Presiding Officer's Report (Attachment C) indicates that no written or oral testimony was presented at the hearing.

Written comment was received through September 21, 1994 at 5:00 p.m. No written comments were received and no modifications were made to the rules following the public comment period.

The following sections summarize the issue that this proposed rulemaking action is intended to address, the authority to address the issue, the process for development of the rulemaking proposal including alternatives considered, a summary of the rulemaking, proposal presented for public hearing, a summary of how the rule will work and how it is proposed to be implemented, and a recommendation for Commission action.

[†]Accommodations for disabilities are available upon request by contacting the Public Affairs Office at (503)229-5317(voice)/(503)229-6993(TDD).

Memo To: Environmental Quality Commission Agenda Item C December 2, 1994 Meeting Page 2

Issue this Proposed Rulemaking Action is Intended to Address

Approval of the Department's Federal Operating Permit program is contingent upon the Department's legal authority to place all applicable federal regulations into these permits. This proposed adoption by reference will give the Department that authority.

Relationship to Federal and Adjacent State Rules

These rules are proposed for adoption by reference, and are therefore identical to federal requirements.

Authority to Address the Issue

ORS 468.020, ORS 468A.310(2)

<u>Process for Development of the Rulemaking Proposal (including Advisory Committee</u> and alternatives considered)

Each of the rules proposed for adoption will fulfill requirements specified by EPA for an approvable Federal Operating Permit Program. Because EPA has indicated it will only allow a narrow margin of flexibility for rules intended to fulfill these requirements, and because the federal requirements will only apply to federal operating permit sources, adoption by reference is the simplest and most expeditious alternative to meet the EPA requirements.

The proposed rules were presented to the Department's Industrial Source Advisory Committee. The Committee had no objections to the rules as proposed. A list of committee members is included as Attachment D.

<u>Summary of Rulemaking Proposal Presented for Public Hearing and Discussion of</u> <u>Significant Issues Involved.</u>

The Acid Rain rules proposed for adoption require electrical generating units of a certain size to limit SO_2 emissions to a baseline rate. The PGE Boardman plant is the only existing source in Oregon affected by this rule; two new electrical generating units near or under construction will become affected sources once electrical generation

Memo To: Environmental Quality Commission Agenda Item C December 2, 1994 Meeting Page 3

commences. These acid rain rules are not new rules, the federal rules have been in effect for some time now. With this proposed rule adoption, the Department will assume the role of permitter. As required in the federal rules, EPA will retain compliance monitoring and enforcement responsibilities.

The Stratospheric Ozone Protection rules proposed for adoption are numerous and varied. Generally, the rules limit the manufacture, sale, distribution, or use of any specified ozone-depleting substances; require labelling of all products that contain or are manufactured with a regulated ozone-depleting substance; and establishes standards and requirements for servicing motor vehicle air conditioners. These rules are proposed for adoption for major sources only.

The Airborne Radionuclide Emmissions rules will authorize the Department to include applicable federal standards for emissions of airborne radionuclides in Federal Operating Permits. The Department estimates there are three or four sources that currently will be affected by the proposed rules.

Summary of Significant Public Comment and Changes Proposed in Response

No comments were received and no changes were made to the proposed rules.

Summary of How the Proposed Rule Will Work and How it Will be Implemented

All of the proposed rules will be implemented through the Department's existing Federal Operating Permit program.

Recommendation for Commission Action

It is recommended that the Commission adopt the rules/rule amendments regarding acid rain, stratospheric ozone protection, and radionuclide NESHAP as presented in Attachment A of the Department Staff Report. Memo To: Environmental Quality Commission Agenda Item C December 2, 1994 Meeting Page 4

Attachments

- A. Rules Proposed for Adoption
- B. Supporting Procedural Documentation:
 - 1. Legal Notice of Hearing
 - 2. Public Notice of Hearing (Memo to Interested Persons)
 - 3. Rulemaking Statements (Statement of Need)
 - 4. Fiscal and Economic Impact Statement
 - 5. Land Use Evaluation Statement
 - 6. Questions to be Answered to Reveal Potential Justification for Differing from Federal Requirements
- C. Presiding Officer's Report on Public Hearing
- D. Advisory Committee Membership
- E. Rule Implementation Plan

Reference Documents (available upon request)

Code of Federal Regulations, Title 40, Parts 72, Acid Rain, 82, Control of Ozone Depleting Chemicals, and 61, Subpart I, Emission Standards for Airborne Radionuclides, July 1, 1994.

Approved:

Division:

Section:

Report Prepared By: Patti Seastrom

Phone: 229-5143

Date Prepared: November 15, 1994

DIVISION 22

GENERAL GASEOUS EMISSIONS

New Rules Proposed for Adoption

Acid Rain

Federal Regulations Adopted By Reference 340-22-075

- (1) 40 CFR Part 72 (July 1, 1994) is by this reference adopted and incorporated herein, for purposes of implementing an acid rain program that meets the requirements of title IV of the Clean Air Act. The term "permitting authority" shall mean the Oregon Department of Environmental Quality and the term "Administrator" shall mean the Administrator of the United States Environmental Protection Agency.
- (2) If the provisions or requirements of 40 CFR Part 72 conflict with or are not included in OAR 340-28-2100 through 340-28-2740, the Part 72 provisions and requirements shall apply and take precedence.

Control of Ozone Depleting Chemicals

Federal Regulations Adopted By Reference 340-22-420

- (1) Except as provided in Section (2) of this rule, 40 CFR Part 82 (July 1, 1994) is by this reference adopted and incorporated herein for major sources only, for purposes of implementing a stratospheric ozone protection program that meets the requirements of title VI of the Clean Air Act.
- (2) Where "Administrator" or "EPA" appears in 40 CFR Part 82, "Department" shall be substituted, except in any section of 40 CFR Part 82 for which a federal rule or delegation specifically indicates that authority will not be delegated to the state.
- (3) Where a discrepancy is determined to exist between OAR 340-22-405 through 340-22-415 and 40 CFR Part 82, 40 CFR Part 82 will apply.

Attachment A, Page 1

DIVISION 32

HAZARDOUS AIR POLLUTANTS

Emission Standards and Procedural Requirements for Hazardous Air Contaminants Regulated Prior to the 1990 Amendments to the Federal Clean Air Act

Federal Regulations Adopted by Reference

340-32-5520

- (1) Except as provided in section (2) of this rule, 40 CFR Part 61, Subparts A through F, <u>I</u>, J, L, N through P, V, and Y through FF (July 1, 1993) are by this reference adopted and incorporated herein.
- (2) Where "Administrator" or "EPA" appears in 40 CFR Part 61, "Department" shall be substituted, except in any section of 40 CFR Part 61 for which a federal rule or delegation specifically indicates that authority will not be delegated to the state.
- (3) If a discrepancy is determined to exist between OAR 340-32-5530 through 340-32-5650 and the applicable sections of **40 CFR Part 61**, **40 CFR Part 61** shall apply.

<u>New Rule Proposed for Adoption</u>

Emission Standards for Airborne Radionuclides 340-32-5585

Emission Standard for Airborne Radionuclide Emissions From Facilities Licensed by the Nuclear Regulatory Commission.

- (1) Applicability.
 - (a) This rule applies to any stationary source which is a major source under OAR 340-28-110(59) and has been issued a radioactive material license by the Nuclear Regulatory Commission or the Oregon Health Division, as administrator of an Agreement State program.
 - (b) This rule does not apply to any stationary source identified by (A) in this subparagraph which possesses and uses radionuclides only in the form of sealed sources.
- (2) Requirements. Stationary sources subject to this rule shall comply with 40 CFR Part 61, Subpart I, as adopted under OAR 340-32-5520.
- (3) Definitions. As used in this rule:
 - (a) "Agreement State" means any state with which the U.S. Nuclear Regulatory Commission or the U.S. Atomic Energy Commission has entered into an effective agreement under subsection 274b. of the Atomic Energy Act of 1954, as amended (73 Stat. 689).
 - (b) "Radioactive material" means any solid, liquid, or gas which emits radiation

Attachment A, Page 2

spontaneously.

(c)

"Sealed source" means radioactive material that is permanently bonded or fixed in a capsule or matrix designed to prevent release and dispersal of the radioactive material under the most severe conditions which are likely to be encountered in normal use and handling.

Attachment A, Page 3

NOTICE OF PROPOSED RULEMAKING HEARING

(Rulemaking Statements and Statement of Fiscal Impact must accompany this form.)

Department of Environmental Quality, Air Quality Division OAR Chapter 340

DATE:	TIME:	LOCATION:
9/20/94	11 a.m.	DEQ Headquarters, Room 10A
HEARINGS OFFICER(s): <u>Patti Seastrom</u>		
STATUTORY AU	THORITY: ORS	468.020, ORS 468A.310(2)
ADOPT:	OAR 340-22-075, 0	DAR 340-22-420 and OAR 340-32-5585
AMEND:	OAR 340-32-5520	
REPEAL :	none	

- X This hearing notice is the initial notice given for this rulemaking action.
- □ This hearing was requested by interested persons after a previous rulemaking notice.
- Auxiliary aids for persons with disabilities are available upon advance request.

SUMMARY:

This rulemaking adopts by reference Federal regulations concerning acid rain, stratospheric ozone protection and airborne radionuclide emissions. These regulations would apply only to sources affected by the Department's Federal Operating Permit Program. Adoption of these regulations would provide the Department with the required legal authority to place acid rain, stratospheric ozone protection, and airborne radionuclide emission regulations in Federal Operating Permits.

LAST DATE FOR COMMENT: <u>September 21, 1994, 5:00 p.m.</u> DATE PROPOSED TO BE EFFECTIVE: <u>Upon adoption by the Environmental Quality</u> <u>Commission and subsequent filing with the Secretary of State.</u>

AGENCY RULES COORDINATOR:	Chris Rich, (503) 229-6775
AGENCY CONTACT FOR THIS PROPOSAL:	Patti Seastrom
ADDRESS:	Air Quality Division
	811 S. W. 6th Avenue
	Portland, Oregon 97204
TELEPHONE:	(503) 229-5143
	or Toll Free 1-800-452-4011

Interested persons may comment on the proposed rules orally or in writing at the hearing. Written comments will also be considered if received by the date indicated above.

Signature

8/15/94

Date: August 15, 1994

То:	Interested and Affected Public
Subject:	Rulemaking Proposal - Acid Rain, Stratospheric Ozone Protection and Airborne Radionuclide Emissions

This memorandum contains information on a proposal by the Department of Environmental Quality (the Department) to adopt new rules regarding acid rain, stratospheric ozone protection and airborne radionuclide emissions. This proposal would adopt by reference the existing federal regulations which govern acid rain production, stratospheric ozone protection and airborne radionuclide emissions. These regulations would apply only to sources affected by the Department's Federal Operating Permit program (FOP). Adoption of these regulations would provide the Department with the legal authority to place acid rain, stratospheric ozone protection, and airborne radionuclide emission regulations in Federal Operating permits.

What's in this Package?

Attachments to this memorandum provide details on the proposal as follows:

Attachment A	The actual language	of the proposed rules.	
Attachment B	The "Legal Notice" by ORS 183.335)	of the Rulemaking Hearin	g. (required
Attachment C		ting Statements for the pro (required by ORS 183.335)	L.
Attachment D		t describing the fiscal and ed rule. (required by OR	

[†]Accommodations for disabilities are available upon request by contacting the Public Affairs Office at (503)229-5317(voice)/(503)229-6993(TDD).

Attachment E A statement providing assurance that the proposed rules are consistent with statewide land use goals and compatible with local land use plans.

Hearing Process Details

You are invited to review these materials and present written or oral comment in accordance with the following:

Date:	September 20, 1994
Time:	11:00 p.m.
Place:	811 SW Sixth Avenue, Room 10A

Deadline for submittal of Written Comments: September 21, 1994, 5:00 p.m.

Patti Seastrom will be the Presiding Officer at this hearing. Following close of the public comment period, the Presiding Officer will prepare a report which summarizes the oral testimony presented and identifies written comments submitted. The Environmental Quality Commission (EQC) will receive a copy of the Presiding Officer's report and all written comments submitted. The public hearing will be tape recorded, but the tape will not be transcribed.

If you wish to be kept advised of this proceeding and receive a copy of the recommendation that is presented to the EQC for adoption, you should request that your name be placed on the mailing list for this rulemaking proposal.

What Happens After the Public Comment Period Closes

The Department will review and evaluate comments received, and prepare responses. Final recommendations will then be prepared, and scheduled for consideration by the EQC.

The EQC will consider the Department's recommendation for rule adoption during one of their regularly scheduled public meetings. The targeted meeting date for consideration of this rulemaking proposal is December 2, 1994. This date may be delayed if needed to provide additional time for evaluation and response to testimony received in the hearing process. You will be notified of the time and place for final

EQC action if you present oral testimony at the hearing or submit written comment during the comment period or ask to be notified of the proposed final action on this rulemaking proposal.

The EQC expects testimony and comment on proposed rules to be presented **during** the hearing process so that full consideration by the Department may occur before a final recommendation is made. The EQC may elect to receive comment during the meeting where the rule is considered for adoption; however, such comment will be limited to the effect of changes made by the Department after the public comment period in response to testimony received. The EQC strongly encourages people with concerns regarding the proposed rule to communicate those concerns to the Department at the earliest possible date so that an effort may be made to understand the issues and develop options for resolution where possible.

Background on Development of the Rulemaking Proposal

What is the problem

The Department is seeking approval by Environmental Protection Agency (EPA) of its FOP program. As a condition of the pending approval of that program, the Department must secure legal authority to place all applicable federal regulations in its Federal Operating permits.

How does this proposed rule help solve the problem

Adoption of these federal regulations regarding acid rain, stratospheric ozone protection and airborne radionuclide emissions provides the Department with the authority to place the appropriate federal regulations in its FOP program.

How was the rule developed

The federal regulations are being adopted verbatim, with the exception that stratospheric ozone protection rules and airborne radionuclide emission rules will only apply to FOP program sources. The Department's authority to implement these rules is limited to FOP

sources. The federal regulations still apply to other affected sources, but the authority to implement the rules as to these sources will remain with EPA.

The proposed rules were presented to the Industrial Source Advisory Committee at its April and July meetings. The committee concurred with the Department's approach to this rule adoption. Adoption by reference language was developed in accordance with guidance from EPA.

How does it affect the public, regulated community, other agencies

Since the federal regulations are already in place and currently apply to affected sources, no additional regulatory burden will result from this rule adoption. What will change after these rules are adopted is the authority to implement and enforce these regulations will be delegated by EPA to the Department.

How does the rule relate to federal requirements or adjacent state requirements

Acid rain, stratospheric ozone protection and airborne radionuclide emission proposed rules adopt the federal regulations unchanged.

The proposed acid rain regulations limit SO_2 emissions to a specified allowance. Existing state regulations currently place SO_2 emissions limitation on sources. The acid rain restriction will stand alone from the state emission limit, and therefore the proposed acid rain rules will not affect existing state regulations.

The proposed stratospheric ozone protection regulations affect a broader range of sources than existing state rules and statutes. Existing state rules will remain in effect for sources not subject to the Federal Operating Permit Program.

The proposed airborne radionuclide emissions rules also affect a broader range of sources than existing state rules and statutes. However, since they adopt existing federal regulations by reference, they do not differ from federal regulations in regulatory burden.

How will the rule be implemented

The proposed rules will be implemented through the Department's existing FOP program upon delegation by EPA.

Are there time constraints

Yes. EPA is requiring states to have the necessary legal authority to place acid rain, stratospheric ozone, and airborne radionuclide emission regulations in Federal Operating Permits by January 1, 1995.

Contact for more information

If you would like more information on this rulemaking proposal, or would like to be added to the mailing list, please contact:

Acid rain or Stratospheric Ozone Protection:

Patti Seastrom Air Quality Division Department of Environmental Quality 811 S.W. Sixth Avenue Portland, OR 97204-1390

(503) 229-5143 1-800-452-4011 (in Oregon)

Radionuclides:

John Kinney Air Quality Division Department of Environmental Quality 811 S.W. Sixth Avenue Portland, OR 97204-1390

(503) 229-6819 1-800-452-4011 (in Oregon)

State of Oregon DEPARTMENT OF ENVIRONMENTAL QUALITY

Rulemaking Proposal for Acid Rain, Stratospheric Ozone Protection and Airborne Radionuclide Emissions

Rulemaking Statements

Pursuant to ORS 183.335(7), this statement provides information about the Environmental Quality Commission's intended action to adopt a rule.

1. Legal Authority

ORS 468.020, ORS 468A.310(2)

2. <u>Need for the Rule</u>

Title V of the Clean Air Act Amendments of 1990 requires that the Department have statutory and regulatory authority to place acid rain, stratospheric ozone protection and airborne radionuclide emissions regulations in Federal Operating Permits. Statutory authority is contained in ORS 468.310(2). Adoption of these rules would provide the necessary regulatory authority. EPA has required that states have such authority in place by January 1, 1995.

3. Principal Documents Relied Upon in this Rulemaking

Federal Operating Permit Program Submittal, November 15, 1993.

Acid Rain: 40 CFR, Parts 72 through 76

Memorandum from Lydia Wegman, EPA Office of Air Quality Planning and Standards, May 21, 1993 to EPA Region Air Divisions, "Title IV-Title V Interface Guidance for States".

Stratospheric Ozone Protection: 40 CFR, Part 82

ORS 468A.625 through 468A.660

OAR 340-22-405 through 340-22-415

Airborne Radionuclide Emissions: 40 CFR Part 61, Subpart I

4. <u>Advisory Committee Involvement</u>

The proposed acid rain and stratospheric ozone protection rules were brought before the Industrial Source Advisory Committee at its April, 1994, meeting. The committee concurred with the rule adoption as proposed. The committee also requested that the Department study the resources required to adopt and implement these rules for all sources, not just Federal Operating Permit Program sources.

The airborne radionuclide emission rules were presented to the Industrial Source Advisory Committee at its July, 1994, meeting. The committee also concurred with the rule adoption as proposed.

State of Oregon DEPARTMENT OF ENVIRONMENTAL QUALITY

Rulemaking Proposal for Acid Rain, Stratospheric Ozone Protection and Airborne Radionuclide Emissions from NRC-Licensed Sources

Fiscal and Economic Impact Statement

Introduction

This proposed rulemaking is not expected to have a significant fiscal and economic impact. The rules proposed for adoption simply adopt federal rules already being implemented. No new requirements will be added.

Acid Rain/Stratospheric Ozone Protection -- This rule adoption will allow State enforcement of the federal acid rain and stratospheric ozone protection regulations for sources subject to the Department's Federal Operating Permit program.

Airborne Radionuclide Emissions -- The proposed rules will authorize the Department to include applicable federal standards for emissions of airborne radionuclides in Federal Operating Permits (FOPs). The Department proposes adopting these rules only as applicable to FOP program sources. The Department does not have the resources to implement and enforce these rules for a broader population of sources. The Department estimates there are three or four FOP program sources that currently will be affected by the proposed rules.

General Public

There would be no economic impact to the general public as a result of these proposed rules.

Small Business

Acid Rain -- There will be no impact on small business as a result of this rule adoption.

Stratospheric Ozone Protection -- Retailers and manufacturers of goods containing controlled substances are already subject to federal law. Similarly, businesses that service motor vehicle air conditioners are affected sources, and are already required by federal law to comply. Since no new requirements are added in this proposed rulemaking, there is no additional impact on small business.

Airborne Radionuclide Emissions -- There should be no significant economic impact on small businesses as a result of these proposed rules. Small businesses must both emit airborne radionuclides and be subject to the Federal Operating Permit program for the proposed rules to apply. The Department anticipates this circumstance to be rare. However, if a small business does meet both conditions, it must comply with equivalent federal regulations anyway. The proposed rules ease regulatory burden by consolidating air emissions regulation under one authority.

Large Business

Acid Rain -- The federal acid rain rules proposed for adoption apply to certain electric utilities. The PGE Boardman plant is the only affected source in Oregon. Two additional electrical generating plants under construction will become affected sources upon completion. From the point of view that no additional rules are proposed, this rulemaking will not result in any additional impact on large business. The Department does not anticipate charging an acid rain permit application fee in addition to the Federal Operating Permit application fee.

Stratospheric Ozone Protection -- Manufacturers of controlled substances are most directly impacted by the federal regulations. As no additional rules are proposed for adoption, this rulemaking will not result in additional impacts on large business.

Airborne Radionuclide Emissions -- There should be no significant economic impact on large businesses as a result of these proposed rules. Large businesses, like small businesses, must both emit airborne radionuclides and be subject to the Federal Operating Permit program for the proposed rules to apply. The Department anticipates this circumstance will be rare. Currently, the Department has identified only three such sources. However, if a large business does meet both conditions, it must comply with equivalent federal regulations anyway. The Department intends to request delegation of federal authority to implement and enforce equivalent federal regulations. The proposed rules ease regulatory burden by consolidating air emissions regulation under one authority.

Local Governments

This rulemaking will not affect local governments.

Acid Rain/Stratospheric Ozone Protection:

DEQ -- Acid rain and stratospheric ozone protection rules will be implemented through the Department's Federal Operating Permit program. These rules will be just a few of many rules applicable to sources permitted under this program. The additional workload resulting from this rule adoption will be absorbed by staffing and resources established to implement the Federal Operating Permit program.

Other Agencies -- LRAPA will be the administering agency in Lane County for stratospheric ozone protection rules. There are no acid rain affected sources in Lane County. Stratospheric ozone protection rules will be implemented through LRAPA's existing Federal Operating Permit program, relying on staff and resources committed to that program.

Airborne Radionuclide Emissions:

DEQ -- The Department will implement the proposed rules through the Federal Operating Permit program. The Department estimates that the workload resulting from these rules will be minimal since the rules will apply to few sources. This workload will be absorbed by staffing and resources established to implement the Federal Operating Permit program.

Other Agencies -- LRAPA will be the administering agency in Lane County for airborne radionuclide emissions rules. There are no known FOP sources in Lane County that emit airborne radionuclides. However, these rules will be implemented through LRAPA's existing Federal Operating Permit program, relying on staff and resources committed to that program.

Assumptions

This analysis assumes that sources are in compliance with existing federal rules. Sources which are not in compliance may be subject to additional costs due to an increase in compliance assurance activities under the federal operating permit program.

Reporting determinations of compliance with all air emissions requirements to a state agency through the existing requirement of a Federal Operating Permit is less costly than reporting compliance with some requirements to a state agency and compliance with other requirements to a federal agency.

State of Oregon DEPARTMENT OF ENVIRONMENTAL QUALITY

Rulemaking Proposal for Acid Rain, Stratospheric Ozone Protection and Airborne Radionuclide Emissions from NRC-Licensed Sources

Land Use Evaluation Statement

1. Explain the purpose of the proposed rules.

The proposed adoption by reference of federal acid rain and stratospheric ozone protection rules, for Federal Operating Permit Program sources, will allow the Department to comply with EPA requirements for an approvable Title V program.

The National Emissions Standards for Hazardous Air Pollutants (NESHAPs) for airborne radionuclides apply to some FOP program sources in Oregon. The Department proposes emission rules for airborne radionuclides to provide authority to include conditions, consistent with applicable radionuclide NESHAPs, in Federal Operating Permits. Such authority will allow the Department to comply with EPA requirements for an approvable Title V program.

2. Do the proposed rules affect existing rules, programs or activities that are considered land use programs in the DEQ State Agency Coordination (SAC) Program?

Yes<u>x</u> No

a. If yes, identify existing program/rule/activity:

Air Quality Federal Operating Permit Program

b. If yes, do the existing statewide goal compliance and local plan compatibility procedures adequately cover the proposed rules?

Yes<u>x</u> No____ (if no, explain):

AttachmentB. 5Page 1

The proposed rules would be implemented through the Department's existing Federal Operating Permit Program. A land use compatibility statement must be approved by the affected local government before a permit can be issued.

c. If no, apply the following criteria to the proposed rules.

Not applicable.

3. If the proposed rules have been determined a land use program under 2. above, but are not subject to existing land use compliance and compatibility procedures, explain the new procedures the Department will use to ensure compliance and compatibility.

Not applicable.

A. Dree Division

Intergovernmental Coord

0 91

Questions to be Answered to Reveal Potential Justification for Differing from Federal Requirements.

The following questions should be clearly answered, so that a decision regarding the stringency of a proposed rulemaking action can be supported and defended:

- Note: If a federal rule is relaxed, the same questions should be asked in arriving at a determination of whether to continue the existing more stringent state rule.
- 1. Are there federal requirements that are applicable to this situation? If so, exactly what are they?

The rules proposed for adoption are the federal rules.

2. Are the applicable federal requirements performance based, technology based, or both with the most stringent controlling?

not applicable

3. Do the applicable federal requirements specifically address the issues that are of concern in Oregon? Was data or information that would reasonably reflect Oregon's concern and situation considered in the federal process that established the federal requirements?

not applicable

4. Will the proposed requirement improve the ability of the regulated community to comply in a more cost effective way by clarifying confusing or potentially conflicting requirements (within or cross-media), increasing certainty, or preventing or reducing the need for costly retrofit to meet more stringent requirements later?

not applicable

5. Is there a timing issue which might justify changing the time frame for implementation of federal requirements?

not applicable

6. Will the proposed requirement assist in establishing and maintaining a reasonable margin for accommodation of uncertainty and future growth?

not applicable

7. Does the proposed requirement establish or maintain reasonable equity in the requirements for various sources? (level the playing field)

not applicable

8. Would others face increased costs if a more stringent rule is not enacted?

not applicable

9. Does the proposed requirement include procedural requirements, reporting or monitoring requirements that are different from applicable federal requirements? If so, Why? What is the "compelling reason" for different procedural, reporting or monitoring requirements?

not applicable

10. Is demonstrated technology available to comply with the proposed requirement?

not applicable

11. Will the proposed requirement contribute to the prevention of pollution or address a potential problem and represent a more cost effective environmental gain?

not applicable

Date: September 21, 1994

To: Environmental Quality Commission

From: Patti Seastrom

Subject: Presiding Officer's Report for Rulemaking Hearing

Hearing Date and Time:	
Hearing Location:	

September 20, 1994, 11 a.m. 811 S.W. Sixth Avenue, Rm. 10A Portland, Oregon

Title of Proposals:

Hardboard Rule Revision Acid Rain Rule Adoption Stratospheric Ozone Protection Rule Adoption Radionuclide Rule Adoption

The rulemaking hearing on the above titled proposals was convened at 11 a.m. People were asked to sign witness registration forms if they wished to present testimony. People were also advised that the hearing was being recorded and of the procedures to be followed.

One person was in attendance and chose to submit written comments by the deadline rather than testify.

Prior to closing the hearing, staff responded to questions from the audience regarding the hardboard rule revisions and discussed analytical strategies.

The hearing was closed at 11:45 a.m.

Attachment C, Page 1

Oregon Department of Environmental Quality Air Quality Industrial Source Advisory Committee III Members

<u>Chair</u>

Judge Jacob Tanzer Ball, Janik & Novack One Main Place 101 SW Main Street Portland, OR 97204 228-2525 FAX 2958-1058

Ex Officio

Don Arkell LRAPA 225 N 5th #501 Springfield, OR 97477 1-503-726-2514 FAX 1-503-726-3782

Environmental

Tim Raphael (interim) OSPIRG 1536 SE 11th Avenue Portland, OR 97214 231-4181 FAX 231-4007

Public-at-Large

Shannon Bauhofer 516 NW Drake Bend, OR 97701 1-503-389-1444 FAX 1-503-389-0256

<u>Business</u>

Bonnie Gariepy Intel Corporation, AL4-91 5200 NE Elam Young Parkway Hillsboro, OR 97124 642-6592 FAX 649-3996

<u>Business</u>

Candee Hatch CH₂M Hill 325 NE Multnomah #1300 Portland, OR 97232 235-5022 X 4336 FAX 235-2445.

<u>Business</u>

Doug Morrison representing Northwest Pulp and Paper Assoc. Bogle & Gates 2 Union Square 601 Union Street Seattle, WA 98101-2346 1-206-621-1413 Home 1-206-641-9352 FAX 1-206-621-2660

Environmental Dr. Robert Palzer 1610 NW 118th Court Portland, OR 97229-5022 520-8671 FAX 520-8671

<u>Business</u>

Jim Spear Williams Air Controls 14100 SW 72nd Avenue Tigard, OR 97226 684-8600 FAX 684-8610

<u>Public-at-Large</u> Nancy Spieler 3530 16th Place Forest Grove, OR 97116 359-5760

<u>Environmental</u>

Lisa Brenner (interim) 18181 SW Kummrow Road Sherwood, OR 97140-9164 625-6891 FAX 625-6369

<u>Business</u>

Jim Whitty Associated Oregon Industries 317 SW Alder #450 Portland, OR 97204 227-3730 X 103 FAX 227-0115

State of Oregon DEPARTMENT OF ENVIRONMENTAL QUALITY

Rulemaking Proposal

for

Acid Rain/Stratospheric Ozone Protection/Radionuclide NESHAP

Rule Implementation Plan

Summary of the Proposed Rule

The proposed rules adopt by reference federal requirements for acid rain, stratospheric ozone protection, and radionuclides. The rules will apply to major sources only.

Proposed Effective Date of the Rule

The rules will become effective upon adoption.

Proposal for Notification of Affected Persons

Affected sources will be notified through the Federal Operating Permit application process.

Proposed Implementing Actions

Federal Operating Permit application forms have already been modified to include these new requirements. Affected sources will have to comply with the federal requirements as contained in the CFR.

Proposed Training/Assistance Actions

Air quality managers have been briefed on the proposed rules. Inspector training will be conducted following rule adoption.

Attachment E, Page 1

Environmental Quality Commission

Rule Adoption Item

□ Action Item

□ Information Item

Agenda Item <u>D</u> December 2, 1994 Meeting

Title:

Adoption of Solid Waste Rule Amendments: Criteria for Financial Assurance for Closure and Post-Closure Care

Summary:

The proposed rule amendments would implement changes in provision of financial assurance required by 1993 Legislation and integrate those with federal regulations. They would establish criteria and procedures for provision of financial assurance for closure, post-closure care and corrective action by permittees of solid waste land disposal sites. They would also require permittees to prepare two kinds of closure and post-closure plans in order to estimate costs of closure and post-closure maintenance.

Department Recommendation:

Adoption of the proposed rules as presented in Attachment A.

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Report Author	Division Administrator	Director

November 14, 1994

[†]Accommodations for disabilities are available upon request by contacting the Public Affairs Office at (503)229-5317(voice)/(503)229-6993(TDD).

Date: November 15, 1994

То:	Environmental Quality Commission
From:	Lydia Taylor, Interim Director Jugalia Day Con

Subject: Agenda Item D, December 2, 1994, EQC Meeting.

Solid Waste Rule Amendments: Criteria for Financial Assurance for Closure and Post-Closure Care

Background

On August 11, 1994, the Director authorized the Waste Management and Cleanup Division to proceed to a hearing on proposed rules and rule amendments which would establish criteria and procedures for provision of financial assurance for closure, postclosure care and corrective action by permittees of solid waste land disposal sites. The Rulemaking Proposal also specified that permittees must prepare two kinds of closure and post-closure plans in order to estimate costs of closure and post-closure maintenance.

Pursuant to the authorization, hearing notice was published in the Secretary of State's <u>Bulletin</u> on September 1, 1994. The hearing notice and informational materials were mailed to those persons who have asked to be notified of rulemaking actions, and to persons known by the Department to be potentially affected by or interested in the proposed rulemaking action on August 24 and 25, 1994.

Public Hearings were held October 4, 5 and 6, 1994, in Bend, Portland, The Dalles, Medford and Eugene with Don Bramhall, Joan Grimm, Wayne Thomas, Charles Hensley and Bob Barrows, respectively, serving as Presiding Officers. The Presiding Officers' Reports (Attachment C) summarize the oral testimony presented at the hearings.

Written comment was received through 5 p.m., October 12, 1994. A list of persons providing written comments is included as Attachment D. (A copy of the comments is available upon request.)

[†]Accommodations for disabilities are available upon request by contacting the Public Affairs Office at (503)229-5317(voice)/(503)229-6993(TDD).

Department staff have evaluated the comments received (Attachment E). Based upon that evaluation, modifications to the initial rulemaking proposal are being recommended by the Department. These modifications are summarized below.

The following sections summarize the issue that this proposed rulemaking action is intended to address, the authority to address the issue, the process for development of the rulemaking proposal including alternatives considered, a summary of the rulemaking proposal presented for public hearing, a summary of the significant public comments and the changes proposed in response to those comments, a summary of how the rule will work and how it is proposed to be implemented, and a recommendation for Commission action.

Issue this Proposed Rulemaking Action is Intended to Address

After a landfill (or a landfill unit or "cell") has reached its capacity and cannot receive further solid waste, it must be closed. Closure entails placing a permanent cover or "cap" over the landfill. This consists of a layer of compacted soil and/or other material to keep rainwater out of the landfill and thus prevent creation of leachate, and another layer of soil planted with vegetation to prevent erosion. After closure, the owner or operator is required to monitor the landfill during 30 years of "post-closure care." This may include groundwater monitoring (to ensure no pollution from leachate is occurring), monitoring of methane gas creation and maintenance of monitoring systems and the cap. During closure and post-closure care periods the owner/operator does not receive revenue from disposal fees from that cell. Therefore an owner/operator is required to provide financial assurance in advance through an instrument (bonds, creation of a trust fund, etc.) to guarantee that sufficient funds will be available when needed for closure and post-closure care activities.

Since January 1984, permittees of solid waste land disposal sites have been required by state law to apply for a "closure permit" at least five years before the anticipated closure of the site. This permit is intended to ensure that sites are closed with proper environmental engineering and do not constitute an environmental problem after closure. One of the requirements of a closure permit was a financial assurance plan to cover the costs of properly closing the site and providing post-closure maintenance. Federal criteria (40 CFR Part 258, or "Subtitle D") established new financial assurance requirements for municipal solid waste landfills. DEQ requested certain additional authorities from the 1993 Legislature to fully implement the federal criteria. 1993 Senate Bill 1012 (SB 1012) modified state law to match the federal requirements, including:

- 1. Financial assurance for the costs of closure and post-closure care is required at the time a permit is issued for new landfills, and by April 9, 1995 for most existing landfills. (Certain very small municipal landfills meeting federal criteria have until October 9, 1995 to provide financial assurance.)
- 2. If a municipal solid waste landfill permittee is required to perform corrective action to clean up groundwater contamination, the permittee must provide financial assurance for the corrective action.
- 3. The permittee must update the financial assurance annually.

The federal requirements apply only to municipal solid waste landfills, but SB 1012 applied the above changes to all "land disposal sites," which include industrial landfills, sludge disposal sites, etc.

Rule amendments are necessary to incorporate the legislative changes and clarify how municipal solid waste landfills may comply with both federal and state requirements.

Relationship to Federal and Adjacent State Rules

Federal. The proposed general financial assurance requirements including their 1. effective dates are equivalent to federal requirements for municipal solid waste landfills. State law (SB 1012) also applies these requirements to other nonmunicipal land disposal sites (including construction and demolition, and industrial landfills). Currently there are no federal criteria for financial assurance for non-municipal land disposal sites, so Oregon law is more stringent for nonmunicipal sites. The Oregon Legislature established financial assurance requirements for all land disposal sites in 1983, recognizing that non-municipal sites as well as municipal sites incur costs of closure and, often, post-closure care. In extending more stringent financial assurance requirements similar to those in Subtitle D to non-municipal land disposal sites, the Legislature considered that the "five years before closure" date for provision of financial assurance was not always practical. Non-municipal land disposal facilities are more likely to change ownership and close unexpectedly, depending on the economic situation of the permittee. An up-front financial assurance requirement for these facilities is more likely to result in funds being available when needed for closure and post-closure care. In addition, there is a provision for the Department to exempt non-municipal sites from financial assurance requirements

if the site is not likely to cause environmental problems. Sewage sludge land disposal sites are subject to federal regulation under 40 CFR Part 503, which is less stringent (three-year post-closure monitoring for methane, no financial assurance requirements). Sludge sites could be exempted from the financial assurance requirements of the proposed rule if they meet exemption criteria.

The requirements for financial assurance for corrective action are tied to both the federal standards (and are therefore equivalent) and to the state groundwater protection standards which in some cases are more stringent than federal requirements. The existing rule for final engineered site closure plans including post-closure maintenance activities, subject to Department approval, is more stringent than federal requirements.

The proposed rule requires certification by a qualified third party of any proposed "alternative" financial assurance mechanism; there is no comparable federal requirement. Third-party review will facilitate the Department's review by limited staff available for this purpose. This is analogous to the existing requirement for engineering plans to be approved by a professional engineer before submittal to DEQ.

See Attachment B-6 for further discussion.

2. <u>Adjacent States.</u> Washington. Washington requires financial assurance for closure and post-closure care for all types of landfill facilities. This financial assurance must be provided at the time a new permit is applied for. Existing facilities had to provide the financial assurance by November 27, 1989. Financial assurance for corrective action is required for municipal solid waste landfills only, not industrial, so Oregon statute is here more stringent for non-municipal land disposal sites. The Washington Department of Ecology must approve financial assurance instruments. An independent CPA firm must audit the financial assurance annually to certify that the amount of funds agreed on is available.

California. California requires financial assurance for closure, post-closure care and corrective action for all types of solid waste landfills, except those receiving only inert wastes. The corrective action financial assurance is for foreseeable as well as for known releases. The schedule for provision of financial assurance is the same as the Subtitle D schedule for municipal solid waste landfills. In addition, financial responsibility for operating liability is required. Certification by a third party is not required except for a corporation submitting a financial means test. Staff in a special section reviews the financial assurance mechanisms

(four analysts and one manager to handle 300 landfills). In general, Oregon is less stringent than California.

Idaho. Municipal solid waste landfills must meet Subtitle D requirements, but by state statute, Idaho may not impose any requirement stricter than the federal regulations. Idaho has no financial assurance requirements for non-municipal land disposal facilities. One-year post-closure cover maintenance is required for non-municipal facilities. Oregon is more stringent than Idaho for non-municipal facilities.

Nevada. Nevada requires financial assurance (closure, post-closure and corrective action) for all types of landfills, on the Subtitle D schedule. Oregon is comparable to Nevada.

Authority to Address the Issue

ORS 459.045, 459.209, 459.248, 459.270, 459.272, and 468.020. Oregon has also received "approved state" designation from the US Environmental Protection Agency (EPA), and thus may independently implement the requirements of Subtitle D for municipal solid waste landfills.

<u>Process for Development of the Rulemaking Proposal (including Advisory Committee</u> and alternatives considered)

Previous solid waste rule amendments incorporated other changes made necessary by the Subtitle D criteria and 1993 legislation. Rule changes to accommodate the changes in financial assurance requirements were originally scheduled to be a part of the April 22, 1994 solid waste rule adoption by the EQC. However the Solid Waste Advisory Committee (SWAC) at its December 16, 1993 meeting felt that the financial assurance provisions in the rule package needed further work. Instead of delaying adoption of the other solid waste rule amendments, the financial assurance part was removed for further consideration. The Department convened a special Work Group on Financial Assurance to better define and address issues involving provision of financial assurance.

The Work Group advised the Department on such issues as whether financial assurance would be "approved" by the Department, length of DEQ permit (maximum five years) vs. federal pay-in period requirement for the trust fund option, how the annual update should work, and how to deal with the statutory requirement for return of any excess

funds collected for financial assurance. The first issue received much attention, and is discussed below.

Review of financial assurance. There was considerable discussion on how DEQ would review the financial assurance mechanism and whether third-party certification would be required. The statutory changes in SB 1012 removed the requirement for Department approval of financial assurance. Third-party certification was discussed as one way to ensure the adequacy of financial assurance. The Work Group's eventual recommendation was that it was sufficient for the permittee to "certify" to DEQ that the financial assurance met all state and federal requirements. At its August 4, 1994 meeting the SWAC considered a re-drafted rule, and agreed with the Work Group on the third-party certification issue.

The Department ultimately agreed with the recommendation from the Work Group and the SWAC that third-party certification was not necessary, except when a permittee proposes to provide "alternative financial assurance." "Alternative financial assurance" may be used only after review and approval by the Department. The Department believes review by a third party is appropriate in this circumstance, and the proposed rule requires a qualified third party to certify that "alternative" forms of financial assurance meet applicable state and federal regulations.

See Attachment G for membership of the Financial Assurance Work Group.

<u>Summary of Rulemaking Proposal Presented for Public Hearing and Discussion of</u> <u>Significant Issues Involved.</u>

The Rulemaking Proposal Presented for Public Hearing contained procedures for provision of the required financial assurance and preparation of closure and post-closure plans. Two sorts of closure and post-closure plans are required for all permittees. An earlier, less-detailed plan is to be kept on file by the permittee and used to estimate costs for financial assurance. A second more-detailed plan with engineering plans for actual closure (and post-closure care) will later be submitted to DEQ for approval. Permittees of municipal solid waste landfills and non-municipal land disposal sites are treated separately, since only municipal sites are subject to federal regulations (which cover closure, post-closure care and corrective action). Major provisions included:

1. <u>Closure Plans</u>. Financial assurance for final closure of a landfill must be based on costs of actions spelled out in a closure plan.

a. Municipal solid waste landfill permittees. Subtitle D requires a closure plan covering closure of the site at the time when closure would be most expensive, and associated financial assurance. Subtitle D requires this financial assurance to be provided by April 9, 1995^{††} for most facilities. The Rulemaking Proposal called this a "worst case" closure plan. The Department will not review these plans, but they must be kept in the facility operating record. At least five years before final closure, a permittee must apply for a closure permit, and prepare a Final Engineered Site Closure Plan, subject to Department approval. The permittee's financial assurance must be based on the Final Engineered Site Closure Plan, when prepared.

Non-municipal land disposal site permittees. SB 1012 requires b. these permittees to demonstrate evidence of financial assurance for the costs of closure of the land disposal site "at the time a disposal site permit is issued" or, for existing sites, by April 9, 1994^{†††} or at a later date established by the EQC. By previously adopted rule, April 9, 1995 was set as the date for provision of financial assurance to have consistent dates for all solid waste land disposal sites. The Rulemaking Proposal based the initial financial assurance for closure on a conceptual "worst-case" closure plan. The Department will not review these plans, but they must be kept at the operations office of the facility. Similarly to municipal sites, a nonmunicipal permittee must also apply for a closure permit at least five years before final closure. The application for a closure permit includes the preparation of a Final Engineered Site Closure Plan, subject to Department approval.

^{††} On October 18, 1994 EPA published a proposed rule that would further delay implementation of the Subtitle D financial assurance responsibilities for all municipal solid waste landfills until April 9, 1996. The Commission may wish to direct the Department to consider adopting this extended compliance date for both municipal and non-municipal landfills upon final adoption by EPA.

^{†††} April 9, 1994 was the date originally set by federal regulation for provision of financial assurance for municipal solid waste landfills. That date was subsequently delayed to April 9, 1995, and an additional extension has recently been proposed. See †† above.

- 2. <u>Post-closure plans</u>. Financial assurance for costs associated with postclosure maintenance of a site must be based on actions specified in a postclosure plan.
 - a. Municipal solid waste landfill permittees. Subtitle D requires financial assurance for post-closure care of the facility to be based on a post-closure plan whose contents are spelled out in federal regulations. The Rulemaking Proposal called this a "Subtitle D post-closure plan." The Department will not review these plans, but again they must be placed in the facility's operating record. A Final Engineered Post-closure Plan must be prepared at the same time as the Final Engineered Site Closure Plan, again subject to Department approval.
 - b. Non-municipal land disposal site permittees. SB 1012 requires provision of financial assurance for post-closure care on the same schedule as financial assurance for closure. The Rulemaking Proposal based the initial financial assurance for post-closure care on a "conceptual" post-closure plan. The Department will not review these plans. A Final Engineered Post-closure Plan must be prepared at the same time as the Final Engineered Site Closure Plan, which is subject to Department approval.
- 3. <u>Financial Assurance.</u>
 - a. **Financial assurance submittal procedures.** Submittal procedures for financial assurance are the same for municipal and non-municipal permittees:
 - Initial submittal of financial assurance (all types). A copy of a financial assurance plan containing the financial assurance mechanism(s) must be placed at the facility by the date specified in rule (April 9, 1995 for most sites). Standard forms must be used (included in the Rulemaking Proposal). A copy of the financial assurance mechanism must also be submitted to the Department by that date. The permittee must certify to the Department that the financial assurance complies with applicable law and rule.

> o Department review; third-party certification. The Department may at any time request that a permittee submit their financial assurance mechanism(s) for Department review. If a permittee wants to use an "alternative" form of financial assurance (for which there is no standard form), this is subject to Department review and approval. The submittal of the alternative financial assurance mechanism must include certification by a qualified third party that the proposed financial assurance complies with applicable law and rule.

b. Corrective Action. Financial assurance for corrective action must be provided when corrective action is required pursuant to OAR 340 Division 40 or 40 CFR §258.58.

- c. Annual Update. All permittees are required by law to annually review and update all applicable financial assurance. The Rulemaking Proposal required permittees to perform the update, based on any estimated cost changes, and certify annually to the Department that the update had been completed.
- d. **Discount rate.** While Subtitle D requires costs of closure and postclosure care to be based on "current costs," it does not specify a discount rate. The Department assumes that most standard financial protocols would use a discount rate to calculate "current costs." A discount rate equal to the current yield of a 5-Year U.S. Treasury Note was included in the Rulemaking Proposal to calculate postclosure costs. The 5-year rate corresponds to the term (five years) for which solid waste permits are issued.
- e. **Trust fund pay-in period.** One of the options for financial assurance is to use a trust fund where the permittee would pay in a certain amount annually to build up the amount of financial assurance to be available when needed. Federal Subtitle D regulations require that the trust fund be fully funded by the term of the initial permit, or by the end of the remaining life of the landfill unit, whichever is shorter. DEQ solid waste permits are generally issued for five years. The Work Group on Financial Assurance (see page 5) noted that the five-year timeframe creates a hardship under the federal rules, especially for a site with a short permit period and long remaining site life.

> The trust fund mechanism is attractive because it allows a permittee to build up funds over time. The Department believes it should be reasonably available to permittees as an option. The Rulemaking Proposal addressed this problem by allowing a "state-approved trust fund" as a "state-approved mechanism" for financial assurance. Subtitle D allows a permittee to use "any other mechanism that meets the criteria" specified in that regulation if approved by the Director of an approved state (such as Oregon). The criteria include the requirement that the financial assurance mechanism "must ensure that funds be available in a timely fashion when needed." [Emphasis added] The end of the remaining site life is when the funds will normally be needed; the Department believes that is the appropriate pay-in period term. The proposed rule adds a "state-approved trust fund" as a possible "alternative financial assurance mechanism" (OAR 340-94-145(5)(g)), with a pay-in period "over the remaining life of the municipal solid waste landfill unit." The Department believes this is in line with the intent of the federal regulation, since the Subtitle D Appendix H--Supplemental Information for Subpart G--Financial Assurance Criteria makes a point of saying that "By allowing an extended 'pay-in' period for trust funds, the burden of funding closure, post-closure care and corrective action obligations will be spread out over the economic life of the facility..." Department staff has discussed this issue with EPA Region X staff. While EPA staff did not see any way around the explicit trust fund pay-in period laid out in Subtitle D, they did not object to using a different pay-in period for an approved state mechanism.

This approach will require a permittee wishing to use this option to submit their financial assurance mechanism to the Department for approval together with third-party certification. A permittee still has the option of using the "Subtitle D" trust fund mechanism; this would alleviate review by the Department, but would require meeting the Subtitle D pay-in period (by the expiration date of the permit).

f. **Corporate financial test.** One person who commented during the Department's previous rulemaking in April 1994 said the corporate financial test should be revised. They said that the existing requirements are overstringent, and discourage use of this option for

> financial assurance. They recommended that the corporate test consist of two parts: 1) tangible net worth of at least \$10 million; and 2) current "investment grade" bond ratings. The Department agreed that some relaxation of the current criteria may be appropriate, but disagreed with using the bond rating. The Rulemaking Proposal revised the two corporate financial test alternatives. Both of the alternatives would allow use of certain ratios together with the \$10 million net worth criterion.

Summary of Significant Public Comment and Changes Proposed in Response

The greatest number of comments came from a representative of Douglas County. He expressed a number of local government concerns including appropriate discount rate, requirement to notify the Department before expending trust fund monies, and requirement that the Department be a beneficiary of the financial assurance mechanism used. The Department believes most of these issues were discussed thoroughly by the Work Group, and has stayed with its recommendations. Only a few minor changes were made to the proposed rule as a result of public comment (specifying that landfills closed before January 1, 1980 are not subject to DEQ closure permit; and allowing the amount of financial assurance to be reduced if estimated costs go down).

See Attachment E for more complete discussion, and for comments not summarized below. The Comment number at the end of each paragraph refers to its numbering in Attachment E, followed by the party making the comment.

1. <u>Landfill Closure Cutoff Date.</u> OAR 340-94-120(4) COMMENT: The rule provision setting closure requirements and requiring written approval from the Department of the closure of a landfill is overly broad. There are many landfills that have closed in the last hundred years. This provision leaves a local government vulnerable to hidden or unknown liabilities. There should be an exemption for landfills closed prior to a specific point in time, e.g. 1975, 1980, etc. (Comment 8, public sector landfill operator)

DEPARTMENT RESPONSE: In 1983 the Department was given explicit statutory authority to regulate closed landfills; at that time DEQ was also allowed to require closure permits for any landfills closing after January 1, 1980. To clarify regulatory intent, the Department is adding the January 1, 1980 date to this rule and to the corresponding rule for non-municipal land disposal sites (OAR 340-95-070).

> <u>Reduction of Cost Estimates.</u> OAR 340-94-140(6)(d)(B) and 340-95-090(6)(d)(B) COMMENT: A permittee should be able to reduce estimates of landfill closure as changing circumstances at the facility (e.g. filling cells) reduce the maximum financial exposure of the permittee. (Comment 20, engineering consultant)

DEPARTMENT RESPONSE: The Department agrees, and is changing the proposed rules for municipal and non-municipal landfills to reflect the comment.

3. <u>Trust fund pay-in period.</u> OAR 340-94-145(5)(g) COMMENT: The rules allow a trust fund to be built up over the entire projected life of the site [as an "alternative," state-approved financial assurance mechanism]. This means that adequate funds would not be available for closure and post-closure cost if the site closed unexpectedly. Allowing this pay-in approach could have the effect of encouraging inadequately financed permittees to postpone recognition of their true liabilities. This is counter to the intent of the rule. If DEQ believes the "pay-in" approach is acceptable, the same standard should be applied to other mechanisms such as surety bonds. The required bond amount in any given year would be the same as the amount required to be in a trust fund in that year, and would similarly increase year to year. (Comment 3, private sector landfill operator)

DEPARTMENT RESPONSE: A trust fund is different from other financial assurance mechanisms in that it provides actual cash to be used for its stated purposes. DEQ's financial assurance rule closely parallels the federal Subtitle D rule, which specifically allows a pay-in period for trust funds. Federal regulations do not allow "phasing in" for the amount required for other types of financial assurance. The financial assurance plan for a facility must be designed to fit the individual case; the maximum amount of funding required will change over time. This could allow eventual reduction of the maximum amount to be covered by whatever mechanism is chosen. The proposed rules were not changed in response to this comment.

4. <u>Disposal of Excess Monies Accumulated in Financial Assurance</u> <u>Mechanism.</u> OAR 340-94-140(4)(e) COMMENT: The rule requires the financial assurance plan to contain a proposal, with provisions satisfactory to the Department, for disposing of any excess monies received for financial assurance. The rule also specifies how any such excess funds

> shall be used. These provisions should not apply to counties that use general revenue to fund landfill operation, development and closure. When such a county completes post-closure requirements, any excess funds should be released to the county to be appropriated in any manner the local budget law permits. DEQ should not dictate use of these funds. This appears to violate local budget laws. (Comment 9, public sector landfill operator)

> DEPARTMENT RESPONSE: The rule language referred to is taken directly from statute (ORS 459.273). This requires an applicant to "establish provisions satisfactory to the department for disposing of any excess moneys received or interest earned on moneys received for financial assurance." The statute further establishes two areas for which excess funds are to be used "to the extent practicable." The Attorney General's Office has informed DEQ that they do not see a conflict between the rule and any local requirements. The proposed rules were not changed in response to this comment.

<u>Use of Bond Rating for Corporate Guarantee.</u> OAR 340-94-145(5)(f) COMMENT: The Rulemaking Proposal modified the corporate guarantee test to rely, partially, on Altman's Z-Score and Beaver's Ratio. Bond ratings are a frequently used and reliable indicator of the financial strength of corporate entities. There is a strong historic correlation between corporate defaults and previous downgrades of bond ratings. Bond ratings are simple to determine and easy to verify (unlike Altman's or Beaver's). The use of the latter would likely increase costs of compliance in developing the multiple "alternative ratios." We believe it is appropriate to use a bond ratings-based approach. (Comment 16, private corporation)

DEPARTMENT RESPONSE: A bond rating usually applies to a specific security, not to the corporation itself. A bond rating in itself does not give a complete financial picture of the corporation. While a bond rating may give a reasonably good indication of a corporation's long-term viability, it does not measure the corporation's liquidity. If funds are needed for an unanticipated current problem, liquidity is a greater concern. The Department believes that the Altman's Z-Score and Beaver's Ratio are not unduly complicated; they use quite standard formulas. They have the advantage of being less weighted to equity and more to cash flow, giving a better picture of the company.

5.

> On October 12, 1994, the EPA issued a proposed rule which would add two financial assurance mechanisms to the Subtitle D rules for municipal solid waste landfills: a financial test for use by corporate owners and operators, and a corporate guarantee. EPA anticipates that promulgation of a final rule will take approximately one year. The Department received a comment after the close of the public comment period which recommended that the Department withdraw the rulemaking in light of the EPA developments. The Department does not believe that withdrawal of the rulemaking is warranted -- procedures for provision of financial assurance need to be established so permittees will be able to plan for them. Since the proposed EPA rule was issued very recently, the Department has not been able to review it within the context of this current rulemaking. The Department will, however, review its "corporate guarantee" rule provisions in light of EPA's proposal, and will consider adopting EPA's final rule provisions in the future.

Meanwhile, the proposed rules were not changed in response to this comment.

6. <u>Account with the Local Government Investment Pool.</u> OAR 340-94-145(5) COMMENT: The Department should consider adding another financial assurance mechanism for local governments. They should be allowed to establish an account with the State of Oregon Local Government Investment Pool (LGIP) under the joint custody of DEQ and the permittee. The LGIP is widely used by government agencies, is effectively administered, and less onerous than use of performance bonding. (Comment 17, public sector landfill operator)

DEPARTMENT RESPONSE: Use of the LGIP may offer advantages to local governments as a means of providing financial assurance, and the Department would encourage interested permittees to explore this option. There are, however, some unresolved questions as to how this might work in practice. Under current rule a local government permittee could propose this use of the LGIP as an "alternative" financial assurance mechanism. The Department will be very willing to work with a permittee who proposes this. But because of the unresolved issues, the Department does not recommend changing the proposed rules to establish use of the LGIP as an outright approved mechanism.

> 7. <u>Local Government Financial Test.</u> COMMENT: The Rulemaking Proposal did not include the "Local Government Financial Test" from 40 CFR Part 258, Subsection 258.74(f) ("Subtitle D"), as an allowable mechanism. It was our understanding that DEQ would adopt this to conform to EPA's rule. We have based our financial assurance plan on the criteria in that document. (Comment 18, public sector landfill operator)

DEPARTMENT RESPONSE: The Subtitle D Local Government Financial Test referred to was included in a proposed rule issued by EPA on December 17, 1993. EPA has not yet promulgated a final rule on this issue. The final rule may be changed making it either more or less stringent than the proposed rule. If the final rule were more stringent, and DEQ had adopted the rule as originally proposed, the Department's rule would be invalid. For that reason the Department prefers to wait until EPA adopts a final rule, and will at that time consider adopting the EPA rule. In the meanwhile, a local government wishing to use the proposed Subtitle D Local Government Financial Test as a financial assurance mechanism may so propose to DEQ as an alternative form of financial assurance under OAR 340-94-145(5)(g). The proposed rules were not changed in response to this comment.

The Department has also made some housekeeping changes from the Rulemaking Proposal put forward for public comment.

Summary of How the Proposed Rule Will Work and How it Will be Implemented

The actions a permittee will be required to take and the schedule for these actions differ based on its regulatory category.

Provision of financial assurance for closure and post-closure care for most existing land disposal sites is required by April 9, 1995^{††††}; certain very small municipal facilities have until October 9, 1995. This includes providing a copy of the financial assurance mechanism to the Department by those dates.

Municipal solid waste landfills are required by Subtitle D to provide a "worst case" closure plan and "Subtitle D" post-closure plan by October 9, 1993 (for "large"

^{††††}But see footnote ^{††}.

facilities); April 9, 1994 for "small" facilities; or October 9, 1995 for certain very small facilities meeting federal criteria. They are all required to prepare a Final Engineered Site Closure Plan and Final Engineered Post-closure Plan (as in current rule) five years before their proposed closure date.

Non-municipal land disposal sites are required to prepare a conceptual "worst-case" closure plan and a conceptual post-closure plan by April 9, 1995. They are also required to prepare a Final Engineered Site Closure Plan and Final Engineered Post-closure Plan five years before the proposed closure date.

For more details see Attachment F, "Rule Implementation Plan."

Recommendation for Commission Action

It is recommended that the Commission adopt the rules and rule amendments regarding criteria for provision of financial assurance for closure, post-closure maintenance and corrective action by permittees of solid waste land disposal sites as presented in Attachment A of the Department Staff Report.

Attachments

- A. Rule Amendments Proposed for Adoption
- B. Supporting Procedural Documentation:
 - 1. Legal Notice of Hearing
 - 2. Public Notice of Hearing (Chance to Comment)
 - 3. Rulemaking Statements (Statement of Need)
 - 4. Fiscal and Economic Impact Statement
 - 5. Land Use Evaluation Statement
 - 6. Questions to be Answered to Reveal Potential Justification for Differing from Federal Requirements
- C. Presiding Officers' Reports on Public Hearings
- D. List of Written Comments Received
- E. Department's Evaluation of Public Comment
- F. Rule Implementation Plan
- G. Financial Assurance Work Group Membership

Reference Documents (available upon request)

Written Comments Received (listed in Attachment D) 1993 Senate Bill 1012 40 CFR Part 258

Approved:

Section:

Division:

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Report Prepared By:

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Date Prepared: November 14, 1994

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ATTACHMENT A FINANCIAL ASSURANCE RULE **Redlining** indicates proposed additions. [Strikethrough and brackets] indicate proposed deletions. PERMIT REQUIRED 340-93-050 (1)Except as provided by section (2) of this rule, no person shall establish, operate, maintain or substantially alter, expand, improve or close a disposal site, and no person shall change the method or type of disposal at a disposal site, until the person owning or controlling the disposal site obtains a permit therefor from the Department. (2)Persons owning or controlling the following classes of disposal sites are specifically exempted from the above requirements to obtain a permit under OAR Chapter 340 solid waste disposal: (a) A facility authorized by a permit issued under ORS 466.005 to 466.385 to store, treat or dispose of both hazardous waste and solid waste; (b) issued under ORS 468B.050; (c) materials have been contaminated such that the Department determines that surface water or public health or safety; A person wishing to obtain a permit exemption for an inert waste not specifically mentioned in this subsection may submit a request to the Department with such information as the Department may require to evaluate the request for exemption, pursuant to OAR 340-93-080. (d) Composting operations used only by the owner or person in control of a leaves, and prunings generated at that residence and operated in a manner approved by the Department; (e) Facilities which receive only source separated materials for purposes of (f) A site used to transfer a container, including but not limited to a shipping

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Divisions 93 through 97, but shall comply with all other provisions of OAR Chapter 340 Divisions 93 through 97 and other applicable laws, rules, and regulations regarding

- - Disposal sites, facilities or disposal operations operated pursuant to a permit
 - A land disposal site used exclusively for the disposal of clean fill, unless the their nature, amount or location may create an adverse impact on groundwater,

NOTE: Such a landfill may require a permit from the Oregon Division of State Lands.

- dwelling unit to dispose of food scraps, garden wastes, weeds, lawn cuttings,
- material recovery or for composting, except when the Department determines that the nature, amount or location of the materials is such that they constitute a potential threat of adverse impact on the waters of the state or public health;
- container, or other vehicle holding solid waste from one mode of transportation to another (such as barge to truck), if:

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1 2		(A)	The container or vehicle is not available for direct use by the general public;
3 4 5		(B)	The waste is not removed from the original container or vehicle; and
5 6 7		(C)	The original container or vehicle does not stay in one location longer than 72 hours, unless otherwise authorized by the Department.
8 9 10 11	(3)	schedule, grant	nt may, in accordance with a specific permit containing a compliance t reasonable time for solid waste disposal sites or facilities to comply pter 340 Divisions 93 through 97.
12 13 14 15 16 17	(4)	likely to create environmental OAR 340-93-0	ned by the Department that a proposed or existing disposal site is not a public nuisance, health hazard, air or water pollution or other problem, the Department may waive any or all requirements of 70, 340-93-130, 340-93-140, 340-93-150, 340-94-060(2) and 340-95- ie a letter authorization in accordance with OAR 340-93-060.
18 19 20 21	(5)	Each person wishall:	ho is required by sections (1) and (4) of this rule to obtain a permit
21 22 23		(a) Make	prompt application to the Department therefor;
24 25			each and every term and condition of any permit issued by the tment to such person;
26 `7		(c) Comp	ly with OAR Chapter 340 Divisions 93 through 97;
28 29 30 31 32 33		monite repres	ly with the Department's requirements for recording, reporting, oring, entry, inspection, and sampling, and make no false statements, entations, or certifications in any form, notice, report, or document ed thereby []:
33 34 35 36 37 38		proper record	the Department or an authorized governmental agency to enter the rty under permit at reasonable times to inspect and monitor the site and is as authorized by ORS 459.385 and 459.272. [Renumbered from 340- 0(9) and 340-95-050(9)]
39 40 41 42 43 44 45	(6)	of a permit or is a violation of assessment of of Division 12 or	luct solid waste disposal according to the conditions, limitations, or terms OAR Chapter 340 Divisions 93 through 97, or failure to obtain a permit of OAR Chapter 340 Divisions 93 through 97 and shall be cause for the civil penalties for each violation as provided in OAR Chapter 340, for any other enforcement action provided by law. Each and every day a occurs is considered a separate violation and may be the subject of ies.
46 47 48 49		OAR 340 Divi	sion 94: MUNICIPAL SOLID WASTE LANDFILLS
50 51 52	CLOSURE AN	D POST-CLOSU	URE CARE: CLOSURE PERMITS
)	340-94-100 [R	enumbered from	n 340-61-028; incorporates part of 340-61-020]

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If a municipal solid waste landfill is subject to 40 CFR, Part 258 as provided in 40 CFR, §258.1, the owner or operator shall comply with closure criteria in 40 CFR, §258.60. All municipal solid waste permittees shall also comply with this rule.

(1) [Renumbered from 340-61-020(7):] Closure Permit:

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- (a) At least five years prior to anticipated <u>final</u> closure of a municipal solid waste landfill, the person holding the disposal site permit shall apply to renew the permit to cover the period of time remaining for site operations, closure of the site, and all or part of the time that active post-closure site maintenance is required by the Department[;]. This last permit issued before final closure of the landfill is scheduled to occur shall be called a "closure permit;"
- (b) The person who holds or last held the disposal site permit, or, if that person fails to comply, then the person owning or controlling a municipal solid waste landfill that is closed and no longer receiving solid waste after January 1, 1980, must continue or renew the disposal site permit after the site is closed for the duration of the period in which the Department continues to actively supervise the site, even though solid waste is no longer received at the site.
- (2) [Renumbered from 340-61-028] Applications for closure permits must include but are not limited to:
 - (a) A <u>[closure plan]</u> <u>Final Engineered Site Closure Plan</u> prepared in accordance with OAR 340-94-110[.]. In lieu of requiring the Final Engineered Site <u>Closure Plan as a part of the application for a closure permit, the Department</u> <u>may specify a date in the closure permit for submission of the Final</u> <u>Engineered Site Closure Plan;</u>
 - (b) A Final Engineered Post-closure Plan prepared in accordance with OAR 340-94-115. In lieu of requiring the Final Engineered Post-closure Plan as a part of the application for a closure permit, the Department may specify a date in the closure permit for submission of the Final Engineered Post-closure Plan;

[(b) - A financial assurance plan prepared in accordance with OAR 340 94 140 unless exempted by the Department pursuant to section (3) of this rule;]

(c) If the permittee does not own and control the property, <u>a demonstration [the permittee shall demonstrate]</u> to the Department that the permittee has access to the landfill property after closure to monitor and maintain the site and operate any environmental control facilities;

- (d) If any person other than the permittee assumes any responsibility for any closure or post-closure activities, that responsibility shall be evidenced by a written contract between the permittee and each person assuming any responsibility.
- [(3) The Department may exempt from the financial assurance requirements existing municipal solid waste landfills which stopped receiving waste before October 9, 1993 (or which stop receiving waste before April 9, 1994, if a "small landfill" meeting criteria in 40 CFR, §258.1(e)(2)) and complete installation of final cover by October 9, 1994. The Department may also exempt from the financial assurance requirement an existing "very small landfill serving certain small communities" meeting criteria in 40

1 CFR, §258.1(f)(1), if such a landfill stops receiving waste before October 9, 1995 and 2 completes installation of final cover by October 9, 1996. To be eligible for this 3 exemption, the applicant shall demonstrate to the satisfaction of the Department that the 4 site meets all of the following criteria and that the site is likely to continue to meet all of 5 these criteria until the site is closed in a manner approved by the Department; 6 The landfill poses no significant threat of adverse impact on groundwater or 7 (a)8 surface water; 9 The landfill poses no significant threat of adverse impact on public health or 10 *₽* 11 safetv: 12 No system requiring active operation and maintenance is necessary for 13 (c) 14 controlling or stopping discharges to the environment; 15 16 (d) The area of the landfill that has been used for waste disposal and has not yet been properly closed in a manner acceptable to the Department is less than and 17 18 remains less than two acres or complies with a closure schedule approved by 19 the Department.] 20 21 -In determining if the applicant has demonstrated that a site meets the financial [(4)]22 assurance exemption criteria, the Department will consider existing available 23 information including, but not limited to, geology, soils, hydrology, waste type and 24 volume, proximity to and uses of adjacent properties, history of site operation and 25 construction, previous compliance inspection reports, existing monitoring data, the 26 proposed method of closure and the information submitted by the applicant. The `7 Department may request additional information if needed. 28 29 An exemption from the financial assurance requirement granted by the Department will (5)remain valid only so long as the site continues to meet the exemption criteria in section 30 31 (3) of this rule. If the site fails to continue to meet the exemption criteria, the 32 Department may modify the closure permit to require financial assurance.] [340-94-100(3)-(5) renumbered to 340-94-140(2)] 33 34 35 $\frac{(6)}{(6)}$ While a closure permit is in effect, the permittee shall submit a report to the (3) Department within 90 days of the end of the permittee's fiscal year or as otherwise 36 37 required in writing by the Department, which contains but is not limited to; 38 39 (a) An evaluation of the approved closure or post-closure plan as applicable 40 discussing current status, unanticipated occurrences, revised closure date 41 projections, necessary changes, etc.; 42 43 (b) A copy of the annualupdate of financial assurance as required by OAR 340-94-140(6)(d). If the financial mechanism used is a trust fund, the permittee 44 shall include a[A]n evaluation of the [approved] financial assurance plan 45 documenting an accounting of amounts deposited and expenses drawn from the 46 47 fund, as well as its current balance. This evaluation must also assess the 48 adequacy of the financial assurance and justify any [requests for] changes in the 49 *approved* plan; 50 51 (c) Other information requested by the Department to determine compliance with 52 the rules of the Department. 3

- (5) [(8)]Any time after a municipal solid waste landfill is closed, the permit holder may apply for a termination of the permit, a release from one or more of the permit requirements or termination of any applicable permit fee. Before the Department grants a termination or release under this section, the permittee must demonstrate and the Department must find that <u>human health and the environment will be protected and</u> there is no longer a need for:
 - (a) Active supervision of the site;
 - (b) Maintenance of the site; or
 - (c) Maintenance or operation of any system or facility on the site.
- [(9) The Department or an authorized governmental agency may enter a municipal solid waste landfill property at reasonable times to inspect and monitor the site as authorized by ORS 459.285.] [Renumbered to 340-93-050(5)(e)]
- (6) [(10)] The closure permit remains in effect and is a binding obligation of the permittee until the Department terminates the permit according to section [(7) or (8)](4) or (5) of this rule or upon issuance of a new closure permit for the site to another person following receipt of a complete and acceptable application.

[Publications: The publication(s) referred to or incorporated by reference in this rule are available from the Department of Environmental Quality.]

CLOSURE AND POST-CLOSURE CARE: CLOSURE PLANS

340-94-110 [Renumbered from 340-61-033]

If a municipal solid waste landfill is subject to 40 CFR, Part 258 as provided in 40 CFR, §258.1, the owner or operator shall comply with closure [and post-closure care] requirements in 40 CFR, Part 258, Subpart F. All municipal solid waste permittees shall also comply with this rule.

<u>(1)</u>	Two types of written closure plans shall be prepared.		
	<u>(a)</u>	The two types of closure plan are:	
		(A) A Subtitle D or "worst-case" closure plan, as required by 40 CFR §258.60(c); and subsequently	
		(B) <u>A Final Engineered Site Closure Plan, as required by OAR 340-94-</u> <u>100(2)(a), which shall include all the elements of and replace the</u> <u>"worst-case" closure plan.</u>	
	<u>(b)</u>	Schedule for preparation of closure plans.	
		(A) The "worst-case" closure plan shall be prepared and placed in the	

facility operating record and the Director shall be notified of that action no later than the effective dates specified in OAR 340-94-001(2) or by the initial receipt of waste, whichever is later:

(B) The Final Engineered Site Closure Plan shall be prepared and submitted to the Department five years before the anticipated final closure date, or at a date specified in the permittee's closure permit pursuant to OAR 340-94-100(2)(a).

(3) <u>Requirements for closure plans.</u> [(1)] A closure plan [must] shall specify the procedures necessary to completely close the <u>municipal solid waste</u> landfill at the end of its intended operating life. [The plan must also identify the post closure activities which will be carried on to properly monitor and maintain the closed municipal solid waste landfill site. At a minimum, the plan shall include:]

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(a) <u>Requirements for the "worst-case" closure plan shall include all elements</u> specified in 40 CFR §258.60, and consist of at least the following:

- (A) A description of the steps necessary to close all municipal solid waste landfill units at any point during their active life;
- (B) A description of the final cover system that is designed to minimize infiltration and erosion;
- (C) An estimate of the largest area of the municipal solid waste landfill unit ever requiring a final cover:
- (D) An estimate of the maximum inventory of wastes ever on-site over the active life of the landfill facility; and
- (E) A schedule for completing all activities necessary to satisfy the closure criteria in 40 CFR §258.60.
- (b) <u>Requirements for the Final Engineered Site Closure Plan.</u> In addition to the requirements for the "worst-case" closure plan, the Final Engineered Site Closure Plan shall consist of at least the following elements:
 - (A) [(a)] Detailed plans and specifications consistent with the applicable requirements of OAR 340-93-140 and 340-94-060(2), unless an exemption is granted as provided in OAR 340-93-070(4);

NOTE: If some of this information has been previously submitted, the permittee shall review and update it to reflect current conditions and any proposed changes in closure *[or post closure]* activities.

- (B) [(b)] A description of how and when the facility will be closed. The description shall, to the extent practicable, show how the disposal site will be closed as filling progresses to minimize the area remaining to be closed at the time that the site stops receiving waste. A time schedule for completion of closure shall be included;
- [(c) Details of how leachate discharges will be minimized and controlled and treated if necessary;

- (d) Details of any landfill gas control facilities, their operation and frequency of monitoring;]
 - (C) [(c)]Details of final cover including soil texture, depth and slope;
 - (D) [(f)]Details of surface water drainage diversion; and
- [(g) A schedule of monitoring the site after closure;

- (h) A projected frequency of anticipated inspection and maintenance activities at the site after closure, including but not limited to repairing, recovering and regrading settlement areas, cleaning out surface water diversion ditches, and re establishing vegetation;}
 - (E) [(i)] Other information requested by the Department necessary to determine whether the disposal site will comply with all applicable rules of the Department.
- (4) [(2) Approval of Closure Plan.] Department approval. The Final Engineered Site <u>Closure Plan is subject to written approval by the Department</u>. After approval by the Department, the permittee shall implement the <u>Final Engineered Site C[c]</u>losure <u>P[p]</u>lan within the approved time schedule.
- (5) [(3)] Amendment of Plan. The approved <u>Final Engineered Site C[c]</u>losure <u>P[p]</u>lan may be amended at any time [during the active life of the landfill or during the post closure care period] as follows:
 - (a) The permittee must amend the plan whenever changes in operating plans or facility design, or changes in OAR Chapter 340 Divisions 93 through 97, or events which occur during the active life of the landfill *[or during the post closure care period,]* significantly affect the plan. The permittee must also amend the plan whenever there is a change in the expected year of closure. The permittee must submit the necessary plan amendments to the Department for approval within 60 days after such changes or as otherwise required by the Department;
 - (b) The permittee may request to amend the plan to alter the closure requirements[, to alter the post closure care requirements, or to extend or reduce the post closure care period] based on cause. The request must include evidence demonstrating to the satisfaction of the Department that:
 - (A) The nature of the landfill makes the closure *[or post-closure care]* requirements unnecessary; or
 - [(B) The nature of the landfill supports reduction of the post closure care period; or]
 - (B) [(C)] The requested [extension in the post closure care period or] alteration of closure [or post closure care] requirements is necessary to prevent threat of adverse impact on public health, safety or the environment.
 - (c) The Department may amend a permit to require the permittee to modify the

1 plan if it is necessary to prevent the threat of adverse impact on public health, 2 safety or the environment. Also, the Department may *[extend or reduce-the* 3 post-closure care period or] alter the closure [or post closure care] 4 requirements based on cause. 5 6 [Publications: The publication(s) referred to or incorporated by reference in this rule are 7 available from the Department of Environmental Quality.] 8 9 CLOSURE AND POST-CLOSURE CARE: POST-CLOSURE PLANS 10 11 340-94-115 12 13 14 If a municipal solid waste landfill is subject to 40 CFR, Part 258 as provided in 40 CFR, §258.1, the 15 owner or operator shall comply with post-closure care requirements in 40 CFR, §258,61. All municipal 16 solid waste permittees shall also comply with this rule. 17 18 Two types of written post-closure plans shall be prepared: <u>(1)</u> 19 20 A "Subtitle D" post-closure plan as required by 40 CFR §258.61(c); and (a) 21 subsequently 22 23 <u>(b)</u> A Final Engineered Post-closure Plan as required by OAR 340-94-100(2)(b). 24 When prepared, this shall include all requirements of and replace the "Subtitle 25 D" post-closure plan. 26 7٢ Schedule for preparation of post-closure plans. (2) ∠8 29 The "Subtitle D" post-closure plan shall be placed in the facility operating (a)30 record and the Director shall be notified of that action no later than the effective dates specified in OAR 340-94-001(2) or by the initial receipt of 31 32 waste, whichever is later; 33 34 The Final Engineered Post-closure Plan shall be prepared in conjunction with <u>(b)</u> 35 and submitted to the Department together with the Final Engineered Site 36 Closure Plan required by OAR 340-94-100(2)(a). 37 38 (3) <u>Requirements for post-closure plans.</u> Post-closure plans shall identify the post-closure 39 activities which will be carried on to properly monitor and maintain the closed 40 municipal solid waste landfill site. 41 42 Requirements for the "Subtitle D" post-closure plan shall include all elements (a) – specified in 40 CFR §258.61, and consist of at least the following: 43 44 45 (A)Maintaining the integrity and effectiveness of any final cover; 46 47 **(B)** Maintaining and operating the leachate collection system; 48 49 (C) Monitoring the groundwater; 50 51 **(D)** Maintaining and operating the gas monitoring system: 52 3 **(E)** Monitoring and providing security for the landfill site; and

- (F) Description of the planned uses of the property during the post-closure care period.
- (b) <u>Requirements for the Final Engineered Post-closure Plan. In addition to the</u> requirements for the "Subtitle D" post-closure plan, the Final Engineered Postclosure Plan shall consist of at least the following elements:

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(A) Detailed plans and specifications consistent with the applicable requirements of OAR 340-93-140 and 340-94-060(2), unless an exemption is granted as provided in OAR 340-93-070(4);

> <u>NOTE: If some of this information has been previously submitted,</u> the permittee shall review and update it to reflect current conditions and any proposed changes in closure or post-closure activities.

- (B) Details of how leachate discharges will be minimized and controlled and treated if necessary;
- (C) Details of any landfill gas control facilities, their operation and frequency of monitoring;
- (D) A schedule of monitoring the site after closure;
- (E) A projected frequency of anticipated inspection and maintenance activities at the site after closure, including but not limited to repairing, recovering and regrading settlement areas, cleaning out surface water diversion ditches, and re-establishing vegetation; and
- (F) Any other information requested by the Department necessary to determine whether the disposal site will comply with all applicable rules of the Department.
- (c) Department approval. The Final Engineered Post-closure Plan is subject to written approval by the Department. After approval by the Department, the permittee shall implement the Final Engineered Post-closure Plan within the approved time schedule.
- (d) Amendment. The approved Final Engineered Post-closure Plan may be amended at any time as follows:
 - (A) The permittee must amend the Plan whenever changes in operating plans or facility design, or changes in OAR Chapter 340 Divisions 93 through 97, or events which occur during the active life of the landfill or during the post-closure care period, significantly affect the Plan. The permittee must submit the necessary plan amendments to the Department for approval within 60 days after such changes or as otherwise required by the Department;
 - (B) The permittee may request to amend the Plan to alter the post-closure care requirements, or to extend or reduce the post-closure care period based on cause. The request must include evidence demonstrating to the satisfaction of the Department that:
 - (i) The nature of the landfill makes the post-closure care

	(ii) The nature of the landfill supports reduction of the post-closure care period; or
	(iii) The requested extension in the post-closure care period or alteration of post-closure care requirements is necessary to prevent threat of adverse impact on public health, safety or the environment.
<u>(C)</u>	The Department may amend a permit to require the permittee to modify the Plan if it is necessary to prevent the threat of adverse impact on public health, safety or the environment. Also, the Department may extend or reduce the post-closure care period or alter the post-closure care requirements based on cause.

requirements unnecessary or

[Publications: The publication(s) referred to or incorporated by reference in this rule are available from the Department of Environmental Quality.]

CLOSURE REQUIREMENTS

340-94-120 [Renumbered from 340-61-042]

If a municipal solid waste landfill is subject to 40 CFR, Part 258 as provided in 40 CFR, §258.1, the owner or operator shall comply with closure and post-closure care requirements in 40 CFR, Part 258, Subpart F. All municipal solid waste permittees shall also comply with this rule <u>for any landfill that</u> <u>closes after January1, 1980</u>.

- (1) When solid waste is no longer received at a municipal solid waste landfill, the person who holds or last held the permit issued under ORS 459.205 or, if the person who holds or last held the permit fails to comply with this section, the person owning or controlling the property on which the landfill is located, shall close and maintain the site according to the requirements of ORS Chapter 459, all applicable rules adopted by the Commission under ORS 459.045 and all requirements imposed by the Department as a condition to renewing or issuing a disposal site permit.
- (2) Unless otherwise approved or required in writing by the Department, no person shall permanently close or abandon a municipal solid waste landfill, except in the following manner:
 - (a) All areas containing solid waste not already closed in a manner approved by the Department shall be covered with at least three feet of compacted soil of a type approved by the Department graded to a minimum two percent and maximum 30 percent slope unless the Department authorizes a lesser depth or an alternative final cover design. In applying this standard, the Department will consider the potential for adverse impact from the disposal site on public health, safety or the environment, and the ability for the permittee to generate the funds necessary to comply with this standard before the disposal site closes. A permittee may request that the Department approve a lesser depth of cover material or an alternative final cover design based on the type of waste, climate, geological setting, or degree of environmental impact;

(b)	Final cover material shall be applied to each portion of a municipal solid waste landfill within 60 days after said portion reaches approved maximum fill elevation, except in the event of inclement weather, in which case final cover shall be applied as soon as practicable;
(c)	The finished surface of the closed areas shall consist of soils of a type or types consistent with the planned future use and approved by the Department. Unless otherwise approved by the Department, a vegetative cover of native grasses shall be promptly established over the finished surface of the closed site;
(d)	All surface water must be diverted around the area of the disposal site used for waste disposal or in some other way prevented from contacting the waste material;
(e)	All systems required by the Department to control or contain discharges to the environment must be completed and operational.
Engine	of municipal solid waste landfills shall be in accordance with <u>the</u> detailed <u>Final</u> <u>ered Site Closure P{p}</u> lan{s} approved in writing by the Department pursuant to $40-94-110$.
(4) Closure	approval:
(a)	When closure is completed, the permittee shall submit a written request to the Department for approval of the closure;
(b)	Within 30 days of receipt of a written request for closure approval, the Department shall inspect the facility to verify that closure has been effected in accordance with the approved closure plan and the provisions of OAR Chapter 340 Divisions 93 and 94;
(c)	If the Department determines that closure has been properly completed, the Department shall approve the closure in writing. Closure shall not be considered complete until such approval has been made. The date of approval notice shall be the date of commencement of the post-closure period.
	The publication(s) referred to or incorporated by reference in this rule are he Department of Environmental Quality.]
LOSURE <u>CAR</u>	E REQUIREMENTS
30 [Renumber	ed from 340-61-043]
operator shall o	e landfill is subject to 40 CFR, Part 258 as provided in 40 CFR, §258.1, the comply with post-closure care requirements in 40 CFR, Part 258, Subpart F. e permittees shall also comply with this rule.
(1) Post-clo	osure requirements:
(a)	Upon completion or closure of a landfill, a detailed description of the site
	 (c) (d) (e) (3) Closure Engine OAR 3 (4) Closure (a) (b) (c) (publications: Tavailable from tavailable

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including a plat <u>shall</u> [should] be filed with the appropriate county land recording authority by the permittee. The description should include the general types and location of wastes deposited, depth of waste and other information of probable interest to future land owners;

- (b) During the post-closure care period, the permittee must, at a minimum:
 - (A) Maintain the approved final contours and drainage system of the site;
 - (B) Consistent with final use, ensure that a healthy vegetative cover is established and maintained over the site;
 - (C) Operate and maintain each leachate and gas collection, removal and treatment system present at the site;
 - (D) Operate and maintain each groundwater and surface water monitoring system present at the site;
 - (E) Comply with all conditions of the closure permit issued by the Department.
- (2) Post-closure care period. Post-closure care must continue for 30 years after the date of completion of closure of the land disposal site, unless otherwise approved or required by the Department according to OAR 340-94-100(4) and (5).[(7) and (8).]

[Publications: The publication(s) referred to or incorporated by reference in this rule are available from the Department of Environmental Quality.]

FINANCIAL ASSURANCE CRITERIA

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340-94-140 [Renumbered from 340-61-034]

If a municipal solid waste landfill is subject to 40 CFR, Part 258 as provided in 40 CFR, §258.1, the owner or operator shall comply with financial assurance criteria in 40 CFR, Part 258, Subpart G. All municipal solid waste permittees shall also comply with this rule.

- Financial Assurance Required. The owner or operator of a municipal solid waste landfill shall maintain <u>a financial assurance plan with</u> detailed written cost estimates of the amount of financial assurance that is necessary and <u>shall</u> provide evidence of financial assurance for the costs of:

 (a) Closure of the municipal solid waste landfill;
 - (b) Post-closure maintenance of the municipal solid waste landfill; and
 - (c) Any corrective action required by the Department to be taken at the municipal solid waste landfill, pursuant to OAR 340-94-080(3).
- (2) Exemptions. The Department may exempt from the financialassurancerequirements existing municipal solid waste landfills which stopped receiving waste before October 9, 1993 (or which stopped receiving waste before April 9, 1994, if a "small landfill" meeting criteria in 40 CFR, §258.1(e)(2)), and completed installation of final cover by

1		October	r 9, 1994. The Department may also exempt from the financialassurance
2		require	ments an existing "very small landfill serving certain small communities"
3			criteria in 40 CFR, §258.1(f)(1), if such a landfill stops receiving waste before
4			r 9, 1995 and completes installation of final cover by October 9, 1996.
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6		<u>(a)</u>	Exemption criteria. To be eligible for this exemption, the applicant shall
7		<u>(u)</u>	demonstrate to the satisfaction of the Department that the site meets all of the
8			following criteria and that the site is likely to continue to meet all of these
9			<u>criteria until the site is closed in a manner approved by the Department:</u>
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11			(A) The landfill poses no significant threat of adverse impact on
12			groundwater or surface water;
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14			(B) The landfill poses no significant threat of adverse impact on public
15			<u>health or safety;</u>
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17			(C) No system requiring active operation and maintenanceis necessary for
18			controlling or stopping discharges to the environment;
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20			(D) The area of the landfill that has been used for waste disposal and has
21			not yet been properly closed in a manner acceptable to the Department
22			is less than and remains less than two acres or complies with a closure
23			schedule approved by the Department.
25			<u>bilitiane apprenda of the population</u>
25		<i>(b)</i>	In determining if the applicant has demonstrated that a site meets the financial
26		<u>(v)</u>	assurance exemption criteria, the Department will consider existing available
20 7			information including, but not limited to, geology, soils, hydrology, waste type
			and volume, proximity to and uses of adjacent properties, history of site
<u>∠8</u>			
29			operation and construction, previous compliance inspection reports, existing
30			monitoring data, the proposed method of closure and the information submitted
31			by the applicant. The Department may request additional information if
32			<u>needed.</u>
33			
34		<u>(c)</u>	An exemption from the financial assurance requirement granted by the
35			Department will remain valid only so long as the site continues to meet the
36			<u>exemption criteria in subsection (2)(a) of this rule. If the site fails to continue</u>
37			to meet the exemption criteria, the Department may modify the closure permit
38			to require financialassurance. [Renumbered from 340-94-100 (3)-(5)]
39			
40	<u>(3)</u>	[(2)]	Schedule for provision of financial assurance.
41			
42		(a)	For costs associated with the "worst-case" closure plan and the "Subtitle D"
43		()	post-closure plan prepared pursuant to 40 CFR Subparts F and G and OAR
44			340-94-110(1)(a)(A) and OAR 340-94-115(1)(a), respectively: Evidence of the
45			required financial assurance for closure and post-closure maintenance of the
46			landfill fas determined in the financial assurance plan required by OAR 340-
47			94 100(2)(b) shall be provided to the Department and placed in the facility
			operating record] shall be provided to the Department and placed in the factury operating record] shall be provided on the following schedule:
48			operating record shall be provided on the following schedule:
49 50			(A) Equation and and and an addition of the start the start of the
50			(A) For a new municipal solid waste landfill: no later than the time the
51			solid waste permit is issued by the Department and prior to first
52			receiving waste;
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(B) For a regional disposal site operating under a solid waste permit on November 4, 1993: by <u>May 4, 1994</u>; [the effective date of this rule;]

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- (C) For <u>other[a]</u> municipal solid waste landfills operating under a solid waste permit on November 4, 1993: by April 9, 1995[, or at the time a financial assurance plan is required by OAR 340 94 100(2)(b), whichever is sooner]; or
- (D) For a "very small landfill serving certain small communities" meeting criteria in 40 CFR, §258.1(f)(1) and operating under a solid waste permit on November 4, 1993: by October 9, 1995[, or at the time a financial assurance plan is required by OAR 340-94-100(2)(b), whichever is sooner].
- (b) For costs associated with the Final Engineered Site Closure Plan and the Final Engineered Post-closure Plan prepared pursuantto OAR 340-94-110(1)(a)(B) and OAR 340-94-115(1)(b) respectively: Evidence of the required financial assurance for closure and post-closure maintenance of the landfill shall be provided at the same time those two Plans are due to the Department.
- (c) [(b)] Evidence of financial assurance for corrective action shall be provided [to the Department] before beginning corrective action.
- (d) Continuous financial assurances hall be maintained for the facility until the permittee or other person owning or controlling the site is no longer required to demonstrate financial responsibility for closure, post-closure care or corrective action (if required).
- [(3)]Financial assurance plans. The financialassuranceplan is a vehicle for determining the amount of financialassurancenecessary and demonstrating that financialassuranceis being provided. A financialassuranceplan [required by OAR 340 94 100(2)(b)] shall include but not be limited to the following, as applicable:
 - (a) <u>Cost Estimates.</u> A <u>detailed</u> written estimate of the third-party costs <u>in current</u> <u>dollars (as calculated using a discount rate equal to the current yield of a 5-</u> <u>year U.S. Treasury Note as published in the Federal Reserve's H.15 (519)</u> <u>Selected Interest Rates for the week in which the calculationis done</u>) of:
 - (A) Closing the municipal solid waste landfill;
 - (B) <u>Providing post-closure care, including i</u>[I]nstalling, operating and maintaining any environmental control system required on the landfill site;
 - (C) Performing required corrective action activities; and
 - [(C) Monitoring and providing security for the landfill site; and]
 - (D) Complying with any other requirement the Department may impose as a condition of [*renewing the permit.*] *issuing a closure permit, closing the site, maintaining a closed facility, or implementing corrective action.*

(b) The source of the cost estimates;

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- (c) [(b)] A detailed description of the form of the financial assurance <u>and a copy</u> of the financial assurance mechanism;
- (d) [(c)] A method and schedule for providing for or accumulating any required amount of funds which may be necessary to meet the financial assurance requirement;
- (e) [(d)] A proposal <u>with provisions satisfactory</u> to the Department for disposing of any excess moneys received or interest earned on moneys received for financial assurance, *if applicable*.
 - (A) To the extent practicable <u>and to the extent allowed by any franchise</u> <u>agreement</u>, the applicant's provisions for disposing of the excess moneys received or interest earned on moneys shall provide for:
 - (i) [(4)] A reduction of the rates a person within the area served by the municipal solid waste landfill is charged for solid waste collection service as defined by ORS 459.005; or
 - (ii) [(B)] Enhancing present or future solid waste disposal facilities within the area from which the excess moneys were received.
 - (B) If the municipal solid waste landfill is owned and operated by a private entity not regulated by a unit of local government, excess moneys and interest remaining in any financialassurancereserve shall be released to that business entity after post-closure care has been completed and the permittee is released from permit requirements by the Department.
- (f) Adequate accounting procedures to insure that the permittee does not collect or set aside funds in excess of the amount specified in the financial assurance plan or any updates thereto or use the funds for any purpose other than required by paragraph(8)(a) of this rule; [Renumbered from 340-94-140(6)(b)]
- (g) The certification required by subsection (6)(c) of this rule; and
- (h) The annualupdates required by subsection (6)(d) of this rule.
- (5) [(4)] Amount of Financial Assurance Required. [The amount of financial assurance required shall be established based upon the estimated closure and post closure care costs included in the approved closure plan. This required amount may be adjusted as the plan is amended:] The amount of financial assurance required shall be established as follows:
 - (a) Closure. Detailed cost estimates for closure shall be based on the "worst-case" <u>closure plan or the Final Engineered Site Closure Plan, as applicable. Cost</u> <u>estimates for the Final Engineered Site Closure Plan shall take into</u> <u>consideration at least the following:</u>
 - [(a) In reviewing the adequacy of the amount of financial assurance proposed by the

$\begin{pmatrix} 1\\ 2 \end{pmatrix}$	applicant, the Department shall consider the following:]
2 3 4	(A) Amount and type of solid waste deposited in the site;
5 6	(B) Amount and type of buffer from adjacent land and from drinking water sources;
7 8	(C) Amount, type, availability and cost of required cover;
9 10 11	(D) Seeding, grading, erosion control and surface water diversion required;
12 13	(E) Planned future use of the disposal site property;
14 15 16	[(F) Type, duration of use, initial cost and maintenance cost of any active system necessary for controlling or stopping discharges;]
17 18 19	(F) [(G)] The portion of the site property closed before final closure of the entire site; <u>and</u>
20 21 22	(G) {(H)} Any other conditions imposed on the permit relating to closure [or post closure] of the site[;].
23 24	[(I) The financial capability of the applicant.
25 26	 After reviewing the proposed amount of financial assurance, the Department may either:
(7 _28	may cuter:
29 30	(A) Approve the amount proposed by the applicant; or
31 32	(B) Disapprove the amount and require the applicant to submit a revised amount consistent with the factors considered by the Department.]
33 34 35 36 37	Post-closure care. Detailed cost estimates for post-closure care shall be based on the "Subtitle D" post-closure plan or the Final Engineered Post-closure Plan, as applicable. Cost estimates for the Final Engineered Post-closure Plan shall also take into consideration at least the following:
38 39 40 41	(A) Type, duration of use, initial cost and maintenancecost of any active system necessary for controlling or stopping discharges; and
41 42 43 44	(B) Any other conditions imposed on the permit relating to post-closure care of the site.
45 46 47	Corrective action. Estimated total costs of required corrective action activities for the entire corrective action period, as described in a corrective action
47	report pursuant to requirements of OAR 340-94-080(3) and 40 CFR §258.73.
49	If a permittee is responsible for providing financial assurance for closure, post-
50 51	<u>closure care and/or corrective action activities at more than one municipal solid</u>
51 52	waste landfill, the amount of financialassurancerequired is equal to the sum of all cost estimates for each activity at each facility.
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(6) How Financial Assurance Is to Be Provided and Updated.

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- (a) The permittee shall submit to the Department a copy of the first financial assurancemechanism prepared in association with a "worst-case" closure plan, a Final Engineered Site Closure Plan, a "Subtitle D" post-closure plan, a Final Engineered Post-closure Plan, and a corrective action report.
- (b) The permittee shall also place a copy of the applicable financial assurance plan(s) in the facility operating record on the schedule specified in section (3) of this rule.
- (c) The permittee shall certify to the Director at the time a financialassurance mechanism is submitted to the Department and when a financialassuranceplan is placed in the facility operating record that the financialassurancemechanism meets all state and federal requirements. This date becomes the "annual review date" of the provision of financialassurance, unless a corporate guarantee used, in which case the annual review date is 90 days after the end of the corporation's fiscal year.
- (d) Annual update. The permittee shall annually review and update the financial assuranceduring the operating life and post-closure care period, or until the corrective action is completed, as applicable.
 - (A) The annual review shall include:
 - (i) An adjustment to the cost estimate(s) for inflation and in the discount rate as specified in subsection (4)(a) of this rule;
 - (ii) A review of the closure, post-closure care and corrective action (if required) plans and facility conditions to assess whether any changes have occurred which would increase or decrease the estimated maximum costs of closure, postclosure care or corrective action since the previous review;
 - (iii) If a trust fund or other pay-in financial mechanism is being used, an accounting of amounts deposited and expenses drawn from the fund, as well as its current balance.
 - (B) The financial assurance mechanism(s) shall be increased or may be reduced to take into consideration any adjustments in cost estimates identified in the annual review.
 - (C)The annualupdate shall consist of a certification from the permittee
submitted to the Department and placed in the facility operating
record. The certification shall state that the financialassuranceplan(s)
and financialassurancemechanism(s) have been reviewed, updated
and found adequate, and that the updated documents have been placed
in the facility operating record. The annualupdate shall be no later
than:
 - (i) The facility's annualreview date; or
 - (ii) For a facility operating under a closure permit, by the date specified in OAR 340-94-100(3).

(7) Department Review of Financial Assurance and Third-Party Certification.

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- (a) The Department may at any time select a permittee to submit financial assuranceplan(s) and financialassurancemechanism(s) for Department review. Selection for review will not occur more frequently than once every five years, unless the Department has reasonable cause for more frequent selection. The Department may, however, review such plans and mechanisms in conjunction with a site inspection at any time.
- (b) A permittee who wants to provide "alternative financialassurance"pursuant to OAR 340-94-145(5)(g) shall submit its financialassuranceplan and proposed financialassurancemechanism for Department review and approval on the schedule specified in section (3) of this rule. The submittal shall include certification from a qualified third party that the financialassurancemechanism meets all state and federal requirements for financialassuranceincluding criteria in OAR 340-94-145(5)(g), and is reasonably designed to provide the required amount of financialassurance. The third-party certification shall be submitted in a format acceptable to the Department.
- (c) The Department will review the financial assurance and the third-party certification, if applicable, for compliance with applicable laws.
- [(5) Form of Financial Assurance. The financial assurance may be in any form proposed by the applicant if it is approved by the Department:
 - (a) The Department will approve forms of financial assurance to cover the ongoing closure activities occurring while the municipal solid waste landfill is still receiving solid waste where the applicant can prove to the satisfaction of the Department that all of the following conditions can be met:
 - (A) That financial assurance moneys in excess of the amount approved by the Department will not be set aside or collected by the disposal site operator. The Department may approve an additional amount of financial assurance during a review conducted in conjunction with a subsequent application to amend or renew the disposal site permit or a request by the owner or operator of a municipal solid waste landfill to extend the useful life of the landfill. Nothing in this subsection shall prohibit a site operator from setting aside an additional reserve from funds other than those collected from rate payers specifically for closure and post-closure and such a reserve shall not be part of any fund or set aside required in the applicable financial assurance plan;
 - (B) That the use of financial assurance is restricted so that the financial resources can only be used to guarantee that the following activities will be performed or that the financial resources can only be used to finance the following activities and that the financial resources cannot be used for any other purpose:
 - (i) Close the municipal solid waste landfill according to the approved closure plan;
 - (ii) Install, operate and maintain any required environmental control systems;

1		(iii)	Monitor and provide security for the landfill site;
3		(iv)	Comply with conditions of the closure permit.]
4			
5	[(C) —		he extent-practicable, all excess moneys received and interest
6		earned on	moneys shall be disposed of in a manner which shall provide
7		for:	
8		(i)	A reduction of the rates a person within the area served by
9			the municipal solid waste landfill is charged for solid waste
10			collection service (as defined by ORS 459.005); or
11		(ii)	Enhancing present or future solid waste disposal facilities
12			within the area from which the excess moneys were received;
13			Of
14			
15		(iii) —	Where the disposal site is operated and exclusively used to
16			dispose of solid waste generated by a single business entity,
17			excess moneys and interest remaining in the financial
18			assurance reserve shall be released to that business entity at
19			the time that the permit is terminated.
20	(b) If the r	amaittaa fa	ils to adequately perform the engeing closure activities in
21			ils to adequately perform the ongoing closure activities in he closure plan and permit requirements, the permittee shall
22 23			nal amount of financial assurance in a form meeting the
23			bsection (5)(c) of this rule within 30 days after service of a
25			ving a civil penalty. The total amount of financial assurance
26			to cover all remaining closure and post closure activities;]
20 `7	must b	c sujjiciciti	to cover and remaining crosure and post crosure activities, j
	(c) The De	nartment w	ill approve only the following forms of financial assurance for
∠8	{(c) The De	epartment w al closure a	ill approve only the following forms of financial assurance for nd post closure activities which will occur after the municipal
∠8 29	the find	al closure a	nd post closure activities which will occur after the municipal
28 29 30	the find	al closure a	ill approve only the following forms of financial assurance for nd post closure activities which will occur after the municipal l stops receiving solid waste:
∠8 29	the find	al closure a Paste landfil	nd post closure activities which will occur after the municipal I stops receiving solid waste:
28 29 30 31	the find solid w	al closure a vaste landfil A-closure act-as a t	nd post closure activities which will occur after the municipal l stops receiving solid waste: trust fund established with an entity which has the authority to rustee and whose trust operations are regulated and examined
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	the find solid w (A)	al closure a aste landfil A closure act as a t by a feder be accept is to recei and to dis activities receiving determine closure pi to the tru. A surety l surety con Departme acceptabli trust fund surety con fund the so of the bon	nd post closure activities which will occur after the municipal I stops receiving solid waste: trust fund established with an entity which has the authority to rustee and whose trust operations are regulated and examined ral or state agency. The wording of the trust agreement must able to the Department. The purpose of the closure trust fund ive and manage any funds that may be paid by the permittee sburse those funds only for closure or post closure maintenance which are authorized by the Department. Within 60 days after itemized bills for closure activities, the Department will whether the closure expenditures are in accordance with the lan or otherwise justified and, if so, will send a written request stee to make reimbursements;] bond guaranteeing payment into a closure fund issued by a mpany listed as acceptable in Circular 570 of the U.S. nt of the Treasury. The wording of the surety bond must be e to the Department. A standby closure trust fund must also shed by the permittee. The purpose of the standby closure is to receive any funds that may be paid by the permittee or mpany. The bond must guarantee that the permittee will either

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competent jurisdiction; or that the permittee will provide alternate financial assurance acceptable to the Department within 90 days after receipt of a notice of cancellation of the bond from the surety. The surety shall become liable on the bond obligation if the permittee fails to perform as guaranteed by the bond. The surety may not cancel the bond until at least 120 days after the notice of cancellation has been received by both the permittee and the Department. If the permittee has not provided alternate financial assurance acceptable to the Department within 90 days of the cancellation notice, the surety must pay the amount of the bond into the standby closure trust account;]

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A surety bond guaranteeing performance of closure issued by a surety F(C) company listed as acceptable in Circular 570 of the U.S. Department of the Treasury. The wording of the surety bond must be acceptable to the Department. A standby closure trust fund must also be established by the permittee. The purpose of the standby closure trust fund is to receive any funds that may be paid by the surety company. The bond must guarantee that the permittee will either perform final closure and post closure maintenance or provide alternate financial assurance acceptable to the Department within 90 days after receipt of a notice of cancellation of the bond from the surety. The surety shall become liable on the bond obligation if the permittee fails to perform as guaranteed by the bond. The surety may not cancel the bond until at least 120 days after the notice of cancellation has been received by both the permittee and the Department. If the permittee has not provided alternate financial assurance acceptable to the Department within 90 days of the cancellation notice, the surety must pay the amount of the bond into the standby closure trust-account;]

An irrevocable letter of credit issued by an entity which has the [*(D*)authority-to issue letters of credit and whose letter of credit operations are regulated and examined by a federal or state agency. The wording of the letter of credit must be acceptable to the Department. A standby closure trust fund must also be established by the permittee. The purpose of the standby closure trust fund is to receive any funds deposited by the issuing institution resulting from a draw on the letter of credit. The letter of credit must be irrevocable and issued for a period of at least one year unless the issuing institution notifies both the permittee and the Department at least 120 days before the current expiration date. If the permittee fails to perform closure and post closure activities according-to-the closure plan and permit requirements, or if the permittee fails to provide alternate financial assurance acceptable to the Department within 90 days after notification that the letter of credit will not be extended, the Department may draw on the letter of credit;]

[(E) A closure insurance policy issued by an insurer who is licensed to transact the business of insurance or is eligible as an excess or surplus lines insurer in one or more states. The wording of the certificate of insurance must be acceptable to the Department. The closure insurance policy must guarantee that funds will be available to complete final closure and post closure maintenance of the site. The policy must also guarantee that the insurer will be responsible for paying out funds for

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reimbursement of closure and post-closure expenditures after notification by the Department that the expenditures are in accordance with the closure plan or otherwise justified. The policy must provide that the insurance is automatically renewable and that the insurer may not cancel, terminate or fail to renew the policy except for failure to pay the premium. If there is a failure to pay the premium, the insurer may not terminate the policy until at least 120 days after the notice of cancellation has been-received by both the permittee and the Department. Termination of the policy may not occur and the policy must remain in full force and effect if: the Department determines that the land disposal site has been abandoned; or the Department has commenced a proceeding to modify the permit-to require immediate closure: or closure has been ordered by the Department, Commission or a court of competent jurisdiction; or the permittee is named as debtor in a voluntary or involuntary proceeding under Title 11 (Bankruptcy), U.S. Code; or the premium due is paid. The permittee is required to maintain the policy in full force and effect until the Department consents to termination of the policy when alternative financial assurance is provided or when the permit is terminated;]

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[(F) Corporate guarantee. A private corporation meeting the financial test may provide a corporate guarantee that closure and post closure activities will be completed according to the closure plan and permit requirements. To qualify, a private corporation must meet the criteria of either subparagraphs (i) or (ii) of this paragraph:

(i) Financial Test. To pass the financial test, the permittee must have:

(I) Two of the following three ratios: A ratio of total liabilities to net worth less than 2.0; a ratio of the sum of net income plus depreciation, depletion, and amortization to total liabilities greater than 0.1; or a ratio of current assets to current liabilities greater than 1.5;

(II) Net working capital and tangible net worth each at least six times the sum of the current closure and post closure cost estimates;

(III) Tangible net worth of at least \$10 million; and

(IV) Assets in the United States amounting to at least 90 percent of its total assets or at least six times the sum of the current closure and post closure cost estimates.]

[(ii) Alternative Financial Test. To pass the alternative financial test, the permittee must-have:

(I) A current rating of AAA; AA, A, or BBB as issued by Standard and Poor's or Aaa, Aa, A, or Baa as issued by Moody's;

(II) Tangible net worth at least six times the sum of the current closure and post closure cost estimates;

(III) Tangible net worth of at least \$10 million; and

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(IV) Assets in the United States amounting to at least 90 percent of its total assets or at least six times the sum of the current closure and post closure cost estimates.]

[(iii) The permittee shall demonstrate that it passes the financial test at the time the financial assurance plan is filed and reconfirm that annually 90 days after the end of the corporation's fiscal year by submitting the following items to the Department:

- (I) A letter signed by the permittee's chief financial officer that provides the information necessary to document that the permittee passes the financial test; that guarantees that the funds to finance closure and post closure activities according to the closure or post closure plan and permit requirements are available; that guarantees that the closure and post closure activities will be completed according to the closure plan and permit requirements; that guarantees that the standby closure trust fund will be fully funded within 30 days after either service of a Final Order assessing a civil penalty from the Department for failure to adequately perform closure or post closure activities according to the closure plan and permit, or service of a written notice from the Department that the permittee no-longer meets the criteria of the financial test; that guarantees that the permittee's chief financial officer will notify the Department within 15 days any time that the permittee no longer meets the criteria of the financial test or is named as debtor in a voluntary or involuntary proceeding under Title 11 (Bankruptcy), U.S. Code; and that acknowledges that the corporate guarantee is a binding obligation on the corporation and that the chief financial officer has the authority to bind the corporation to the guarantee;]
- [(II) A copy of the independent certified public accountant's report on examination of the permittee's financial statements for the latest completed fiscal year;
- (III) A special report from the permittee's independent certified public accountant (CPA) stating that the CPA has compared the data which the letter from the permittee's chief financial officer specifies as having been derived from the independently audited year end financial statements for the latest fiscal year with the amounts in such financial statement, and that no matters came to the CPA's attention which caused the

1				CPA to believe that the specified data should be
2				adjusted;
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4			4	W) A trust agreement demonstrating that a standby closure
5				trust fund has been established with an entity which
6				has authority to act as a trustee and whose trust
7				operations are regulated and examined by a federal or
8				state agency. The wording of the trust agreement must
9				be acceptable to the Department.]
10				be acceptable to the peptitinent.]
			$[G_{\rm ex}]$ T	he Department may, based on a reasonable belief that the
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12				ermittee no longer meets the criteria of the financial test,
13				equire reports of the financial condition at any time from
14				te permittee in addition to the annual report. If the
15				epartment finds, on the basis of such reports or other
16				formation, that the permittee no longer meets the criteria
17			oj	f the financial test, the permittee shall fully fund-the
18			st	andby closure trust fund within 30-days-after-notification
19			b	y-the Department.
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21			(G) Alternative fe	orms of financial assurance where the applicant can prove
22				ction of the Department that the level of security is
23				-paragraphs (A) through (F) of this subsection and that the
23				bsection (5)(a) of this rule are met.] [Note: 340-94-140(5)
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25			is being tenu	mbered into a new rule, 340-94-145]
26	(0)	T (2)3	A	a for the state of the second se
7	<u>(8)</u>	[(6)]	Accumulation {and us	e] of any financial assurance funds:
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29		(a)		et aside} The financialassurancemechanisms for closure,
30				corrective action shall ensure the funds will be available in
31			<u>a timely fashion when</u>	<u>n needed. The permittee shall pay moneys into a trust</u>
32			fund[s] in the amount	and at the frequency specified in the financial assurance
33			plan[approved by the	- Department.] or obtain other financialassurance
34				ied in the financial assurance plan, on the schedule
35			specified in section (3	
36				
37			(A) Closure. The	e total amount of financial assurance required for closure
38				able in the form {approved by the Department at the time
39				ste is no longer received at the site;] specified in the
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40				uranceplan or any updates thereto, whenever final closure
41				al solid waste landfill unit is scheduled to occur in the
42			"worst case"	closure plan or in the Final Engineered Site Closure Plan.
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44			· · · · · · · · · · · · · · · · · · ·	care. The total amount of financialassurance required for
45			-	care shall be available in the form specified in the financial
46			<u>assurancepla</u>	in or any updates thereto, whenever post-closure care is
47			scheduled to	begin for a municipal solid waste landfill unit in the
48			"Subtitle D"	post-closure plan or in the Final Engineered Post-closure
49			Plan.	
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51			(C) Corrective ac	ction. The total amount of financial assurance required for
52				tion shall be available in the form specified in the financial
3				in or any updates thereto on the schedule specified in 40
,			<u>ussur unve plu</u>	m or any updates merces on the senedute specified in 40

CFR §258.74.

- [(b) The financial-assurance plan shall contain adequate accounting procedures to insure that the disposal site operator does not collect or set aside funds in excess of the amount approved by the Department or use the funds for any purpose other than required by paragraph (5)(a)(B) of this rule;] [Renumbered to 340-94-140(4)(f)]
- (b) [(c)] The permittee is subject to audit by the Department (or Secretary of State) and shall allow the Department access to all records during normal business hours for the purpose of determining compliance with this rule <u>and OAR 340-</u> <u>94-145</u>;
- (c) [(d)]If the Department determines that the permittee did not set aside the required amount of funds for financial assurance in the form and at the frequency required by the <u>applicable [approved]</u> financial assurance plan, or if the Department determines that the financial assurance funds were used for any purpose other than as required in <u>section (1) [paragraph (5)(a)(B)]</u> of this rule, the permittee shall, within 30 days after notification by the Department, deposit a sufficient amount of financial assurance in the form required by the <u>applicable [approved]</u> financial assurance plan along with an additional amount of financial assurance been deposited on time or had it not been withdrawn for unauthorized use[.];
- (d) If financial assurance is provided under OAR 340-94-145(5)(a), (b) or (g), upon successful closure and release from permit requirements by the Department, any excess money in the financial assurance account must be used in a manner consistent with subsection (4)(e) of this rule. [Renumbered from OAR 340-94-150(7)]

[{Note: In addition to the requirements set forth in this rule, 40 CFR, §258.61 requires municipal landfill owners and operators subject to 40 CFR, Part 258 to maintain financial assurance for costs of closure, post-closure care and corrective action. The financial assurance costs must be adjusted annually to compensate for inflation. Municipal solid waste landfill owners and operators are subject to the requirements of Federal law.)]

[Publications: The publication(s) referred to or incorporated by reference in this rule are available from the Department of Environmental Quality.]

<u>NEW RULE:</u>

FINANCIAL ASSURANCE MECHANISMS

340-94-145 [Renumbered from 340-94-140(5)]

[(5)] Form of Financial Assurance. [The financial assurance may be in any form proposed by the applicant if it is approved by the Department:

(a) The Department will approve forms of financial assurance to cover the ongoing closure activities occurring while the municipal solid waste landfill is still receiving solid waste where the applicant can prove to the satisfaction of the

Department that all of the following conditions can be met:

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(A) That financial assurance moneys in excess of the amount approved by the Department will not be set aside or collected by the disposal site operator. The Department may approve an additional amount of financial assurance during a review conducted in conjunction with a subsequent application to amend or renew the disposal site permit or a request by the owner or operator of a municipal solid waste landfill to extend the useful life of the landfill. Nothing in this subsection shall prohibit a site operator from setting aside an additional reserve from funds other than those collected from rate payers specifically for closure and post closure and such a reserve shall not be part of any fund or set aside required in the applicable financial assurance plan;}

[(B) That the use of financial assurance is restricted so that the financial resources can only be used to guarantee that the following activities will be performed or that the financial resources can only be used to finance the following activities and that the financial resources cannot be used for any other purpose:

- (i) Close the municipal solid waste landfill according to the approved closure plan;
- (ii) Install, operate and maintain any required environmental control systems;
- (iii) Monitor and provide security for the landfill site;
- (iv) Comply with conditions of the closure permit.
- (C) That, to the extent practicable, all excess moneys received and interest earned on moneys shall be disposed of in a manner which shall provide for:
 - (i) A reduction of the rates a person within the area served by the municipal solid waste landfill is charged for solid waste collection service (as defined by ORS 459.005); or
 - (ii) Enhancing present or future solid waste disposal facilities within the area from which the excess moneys were received; or
 - (iii) Where the disposal site is operated and exclusively used to dispose of solid waste generated by a single business entity, excess moneys and interest remaining in the financial assurance reserve shall be released to that business entity at the time that the permit is terminated.

(b) If the permittee fails to adequately perform the ongoing closure activities in accordance with the closure plan and permit-requirements, the permittee shall provide an additional amount of financial assurance in a form meeting the requirements of subsection (5)(c) of this rule within 30 days after service of a Final Order assessing a civil penalty. The total amount of financial assurance

$\begin{pmatrix} 1\\2 \end{pmatrix}$		must be sufficient to cover all remaining closure and post closure activities;]
3	<u>(1)</u>	The financialassurancemechanism shall restrict the use of the financialassuranceso that
4	<u>\11</u>	the financial resources may be used only to guarantee that closure, post-closure or
5		corrective action activities will be performed, or that the financial resources can be used
6		only to finance closure, post-closure or corrective action activities.
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8	(2)	The financial assurance mechanism shall provide that the Department or a party approved
9	<u>1-7</u>	by the Department is the beneficiary of the financial assurance.
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11	<u>(3)</u>	A permittee may use one financial assurance mechanism for closure, post-closure and
12		corrective action activities, but the amount of funds assured for each activity must be
13		specified.
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15	<u>(4)</u>	The financialassurancemechanism shall be worded as specified by the Department.
16		unless a permittee uses an alternative financialassurance mechanism pursuant to
17		subsection (5)(g) of this rule. The Department retains the authority to approve the
18		wording of an alternative financial assurance mechanism.
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20	<u>(5)</u>	{(c) The Department will approve} <u>Allowable Financial Assurance Mechanisms. A</u>
21		permittee shall provide only the following forms of financial assurance for [the final]
22		closure and post-closure activities [which will occur after the municipal solid waste
23		landfill stops receiving solid waste]:
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25		(a) $\frac{(A)}{A} = \frac{(A)}{A}$ trust fund established with an entity which has the authority to
26		act as a trustee and whose trust operations are regulated and examined by a
7		federal or state agency and meeting criteria in 40 CFR §258.74(a). [The
28		wording of the trust agreement must be acceptable to the Department.] The
29		purpose of the <i>[closure]</i> trust fund is to receive and manage any funds that may
30		be paid by the permittee and to disburse those funds only for closure, [or]
31		post-closure maintenance or corrective action activities which are authorized by
32		the Department. <u>The permittee shall notify the Department, in writing, before</u>
33		<u>any expenditure of trust fund moneys is made, describing and justifying the</u>
34		activities for which the expenditure is to be made. If the Department does not
35		respond to the trustee within 30 days after receiving such notification, the
36		expenditure is deemed authorized and the trustee may make the requested
37		reimbursements: {Within 60 days after receiving itemized bills for closure
38		activities, the Department will determine whether the closure expenditures are in
39		accordance with the closure plan or otherwise justified and, if so, will send a
40		written request to the trustee to make-reimbursements;]
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42		(b) [(B)]A surety bond guaranteeing payment into a <u>standby</u> closure <u>or post-closure</u>
43		trust fund issued by a surety company listed as acceptable in Circular 570 of the
44		U.S. Department of the Treasury. [The wording of the surety bond must be
45		acceptable to the Department.] <u>The</u> [4] standby closure <u>or post-closure</u> trust
46 47		fund must <i>[also]</i> be established by the permittee. The purpose of the standby
		$\frac{[closure]}{[closure]}$ trust fund is to receive any funds that may be paid by the permittee or
48 49		surety company. <u>The penal sum of the bond must be in an amount at least equal</u>
49 50		to the current closure or post-closure care cost estimate, as applicable. The
50 51		bond must guarantee that the permittee will either fund the standby <i>[closure]</i> trust fund in an amount equal to the penal sum of the bond before the site stops
52		receiving waste or within 15 days after an order to begin closure is issued by the
3		Department or by a court of competent jurisdiction; or that the permittee will
-		Separation of of a court of competent jurisdiction, of that the permittee will

provide alternate financial assurance acceptable to the Department within 90 days after receipt of a notice of cancellation of the bond from the surety. The surety shall become liable on the bond obligation if the permittee fails to perform as guaranteed by the bond. The surety may not cancel the bond until at least 120 days after the notice of cancellation has been received by both the permittee and the Department. If the permittee has not provided alternate financial assurance acceptable to the Department within 90 days of the cancellation notice, the surety must pay the amount of the bond into the standby *lelosurel* trust account;

[(C)]A surety bond guaranteeing performance of closure, post-closure or corrective action activities issued by a surety company listed as acceptable in Circular 570 of the U.S. Department of the Treasury. [The wording of the surety bond must be acceptable to the Department.] A standby [closure] trust fund must also be established by the permittee. The purpose of the standby [closure] trust fund is to receive any funds that may be paid by the surety company. The bond must guarantee that the permittee will either perform final closure, [and] post-closure maintenance or corrective action activities, as applicable, or provide alternate financial assurance acceptable to the Department within 90 days after receipt of a notice of cancellation of the bond from the surety. The surety shall become liable on the bond obligation if the permittee fails to perform as guaranteed by the bond. The surety may not cancel the bond until at least 120 days after the notice of cancellation has been received by both the permittee and the Department. If the permittee has not provided alternate financial assurance acceptable to the Department within 90 days of the cancellation notice, the surety must pay the amount of the bond into the standby [closure] trust account;

[(D)]An irrevocable letter of credit issued by an entity which has the authority to issue letters of credit and whose letter-of-credit operations are regulated and examined by a federal or state agency. [The wording of the letter of credit-must be-acceptable to the Department.] A standby [closure] trust fund must also be established by the permittee. The purpose of the standby *[closure]* trust fund is to receive any funds deposited by the issuing institution resulting from a draw on the letter of credit. The letter of credit must be irrevocable and issued for a period of at least one year and shall be automatically extended for at least one year on each successive expiration date unless the issuing institution notifies both the permittee and the Department at least 120 days before the current expiration date. If the permittee fails to perform closure and post-closure activities according to the closure plan and permit requirements, or to perform the selected remedy described in the corrective action report, or if the permittee fails to provide alternate financial assurance acceptable to the Department within 90 days after notification that the letter of credit will not be extended, the Department may draw on the letter of credit;

(e) [(E)] A closure or post-closure insurance policy issued by an insurer who is licensed to transact the business of insurance or is eligible as an excess or surplus lines insurer in one or more states. [The wording of the certificate-of insurance must be acceptable to the Department.] The [closure] insurance policy must guarantee that funds will be available to complete final closure and post-closure maintenance of the site. The policy must also guarantee that the insurer will be responsible for paying out funds for reimbursement of closure and post-closure expenditures [after notification by the Department] that [the

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expenditures] are in accordance with the closure or post-closure plan or otherwise justified. The permittee shall notify the Department, in writing, before any expenditure of insurance policy moneys is made, describing and justifying the activities for which the expenditure is to be made. If the Department does not respond to the insurer within 30 days after receiving such notification, the expenditure is deemed authorized and the insurer may make the requested reimbursements. The policy must provide that the insurance is automatically renewable and that the insurer may not cancel, terminate or fail to renew the policy except for failure to pay the premium. If there is a failure to pay the premium, the insurer may not terminate the policy until at least 120 days after the notice of cancellation has been received by both the permittee and the Department. Termination of the policy may not occur and the policy must remain in full force and effect if: the Department determines that the land disposal site has been abandoned; or the Department has commenced a proceeding to modify the permit to require immediate closure; or closure has been ordered by the Department, Commission or a court of competent jurisdiction; or the permittee is named as debtor in a voluntary or involuntary proceeding under Title 11 (Bankruptcy), U.S. Code; or the premium due is paid. The permittee is required to maintain the policy in full force and effect until the Department consents to termination of the policy when alternative financial assurance is provided or when the permit is terminated;

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<u>(B)</u>

(f) [(F)]Corporate guarantee. A private corporation meeting the financial test may provide a corporate guarantee that <u>funds are available for</u> closure, [and] post-closure <u>or corrective action activities</u>, and that those activities will be completed according to the closure <u>or post-closure</u> plan, [and] permit requirements <u>or selected remedy described in the corrective action report, as applicable</u>. To qualify, a private corporation must meet the criteria of either <u>paragraph(A) or (B) of this subsection: [subparagraphs (i) or (ii) of this paragraph:]</u>

- (A) [(i)] Financial Test. To pass the financial test, the permittee must have:
 - (i) [(1)]Two of the following three ratios: A ratio of total liabilities to <u>tangible</u> net worth less than <u>3.0[2.0]</u>; a ratio of the sum of net income plus depreciation, depletion, and amortization to total liabilities greater than 0.1; or a ratio of current assets to current liabilities greater than 1.5;
 - (*ii*) {(*II*)}Net working capital <u>equal to at least four times</u> and tangible net worth <u>equal to[each]</u> at least six times the sum of the current [<u>closure and post closure</u>]cost estimates <u>covered by the test</u>;
 - (*iii*) [(*III*)]Tangible net worth of at least \$10 million; and
 - (*iv*) [(*IV*)]Assets in the United States amounting to at least [90 percent of its total assets or at least] six times the sum of the current [closure and post closure]cost estimates <u>covered</u> <u>by the test</u>.
 - $\frac{(ii)}{A}$ Alternative Financial Test. To pass the alternative financial test, the permittee must have:

1		[(1) A current rating of AAA, AA, A, or BBB as issued by
2		Standard and Poor's or Aaa, Aa, A, or Baa as issued
3		by Moody's;
4 5		(II) Tangible not worth at least six times the sum of the
		(II) Tangible net worth at least six times the sum of the current closure and post closure cost estimates;
6 7		current closure and post closure cost estimates;
8		(III) Tangible net worth of at least \$10 million; and
9		
10		(IV) Assets in the United States amounting to at least 90
11		percent of its total assets or at least six times the sum
12		of the current closure and post-closure cost-estimates.]
13		
14		(i) Tangible net worth of at least \$10 million; and
15		
16		(ii) Two of the following three ratios:
17		
18		(1) Times Interest Earned (fearnings before interest and
19 20		taxes] divided by interest) of 2.0 or higher;
20 21		(II) Domen's Partie of A 2 on high or (Firstonnally concerted
21		(II) Beaver's Ratio of 0.2 or higher (finternally generated cash] divided by [total liabilities]). Internally
23		generated cash is obtained from taxable income before
23 24		net operating loss, plus credits for fuel tax and
24 25		investment in regulated investment companies, plus
26		depreciation plus amortization plus depletion, plus any
20 7		income on the books not required to be reported for
28		tax purposes if it is likely to be recurring, minus
29		income tax expenses. Total liabilities includes all
30		long- and short-term debt; or
31		<u></u>
32		(III) Altman's Z-Score of 2.9 or higher.
33	,	
34	<u>(C)</u>	[(iii)] The permittee shall demonstrate that it passes the financial test at
35		the time the financial assurance plan is filed and reconfirm that annually
36		90 days after the end of the corporation's fiscal year by submitting the
37		following items to the Department:
38		
39		(i) [(1)]A letter signed by the permittee's chief financial officer
40		that <u>.</u>
41		
42		<u>(1) $P[p]$</u> rovides the information necessary to document
43		that the permittee passes the financial test; {that}
44		
45		(II) <u>G[g]</u> uarantees that the funds <u>are available</u> to finance
46		closure, [and] post-closure or corrective action
47		activities according to the closure <u>or post-closure</u> plan,
48		<i>[and]</i> permit requirements <u>or selected remedy</u>
49 50		described in the corrective action report, as applicable;
50 51		[are available; that]
51 52		(III) C[a]norontoes that the closure [and next closure of
.3		(III) <u>G[g]</u> uarantees that the closure, <u>[and]</u> post-closure <u>or</u> <u>corrective action</u> activities will be completed according

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to the closure or post-closure plan, [and] permit 1 requirements or selected remedy described in the 2 corrective action report, as applicable; [that] 3 4 (IV) G[g] uarantees that the standby [*closure*] trust fund will 5 be fully funded within 30 days after either service of a 6 Final Order assessing a civil penalty from the 7 Department for failure to adequately perform closure 8 or post-closure activities according to the closure or 9 post-closure plan and permit, or the selected remedy 10 described in the corrective action report, as applicable, 11 or service of a written notice from the Department 12 that the permittee no longer meets the criteria of the 13 financial test; [that] 14 15 (V) G[g]uarantees that the permittee's chief financial 16 officer will notify the Department within 15 days any 17 time that the permittee no longer meets the criteria of 18 the financial test or is named as debtor in a voluntary 19 or involuntary proceeding under Title 11 20 (Bankruptcy), U.S. Code; and [that] 21 22 (VI) A[a]cknowledges that the corporate guarantee is a 23 binding obligation on the corporation and that the 24 chief financial officer has the authority to bind the 25 corporation to the guarantee; 26 17 $\frac{1}{1}$ A copy of the independent certified public accountant's *(ii)* 28 (CPA) report on examination of the permittee's financial 29 statements for the latest completed fiscal year; 30 31 [(III)]A special report from the permittee's independent (iii) 32 CPA [certified public accountant (CPA)] stating that the 33 CPA has compared the data which the letter from the 34 permittee's chief financial officer specifies as having been 35 derived from the independently audited year end financial 36 statements for the latest fiscal year with the amounts in such 37 financial statements, and that no matters came to the CPA's 38 attention which caused the CPA to believe that the specified 39 data should be adjusted; 40 41 <u>(iv)</u> [(IV)]A trust agreement demonstrating that a standby 42 [closure] trust fund has been established with an entity 43 which has authority to act as a trustee and whose trust 44 operations are regulated and examined by a federal or state 45 46 agency[. The wording of the trust agreement must be acceptable to the Department.]; and 47 48 A list of any facilities in Oregon or elsewhere for which the 49 (v) permittee is using a similar financial means test to 50 demonstrate financialassurance. 51 52 3ز **(D)** [(iv)] The Department may, based on a reasonable belief that the

permittee no longer meets the criteria of the financial test, require reports of the financial condition at any time from the permittee in addition to the annual report. If the Department finds, on the basis of such reports or other information, that the permittee no longer meets the criteria of the financial test, the permittee shall fully fund the standby *[elosure]* trust fund within 30 days after notification by the Department.

(g) [(G)]Alternative Financial Assurance. Alternative forms of financial assurance, such as a state-approved trust fund or a pledge of revenue, may be proposed by the permittee, subject to the review and approval of the Director. The applicant must be able to [where the applicant can] prove to the satisfaction of the Department that the level of security is equivalent to subsections (a) through (f) of this section, [paragraphs (A) through (F) of this subsection and] that the criteria of OAR 340-94-140(4)(e) and sections (1) through (3)[subsection (5)(a)] of this rule and the performance standards in 40 CFR §258.74(l) are met[-], except that the pay-in period of a state-approved trust fund for closure or post-closure care may be over the remaining life of the municipal solid waste landfill unit. Submittal of an alternative financial assurancemechanism to the Department for review and approval shall include third-party certification as specified in OAR 340-94-140(7).

(6) Allowable Financial Assurance Mechanisms for Corrective Action. A permittee shall provide one of the following forms of financial assurance for corrective action: a trust fund, a surety bond guaranteeingperformance of corrective action, an irrevocable letter of credit, a corporate guarantee, or alternative forms of financial assurance, pursuant to subsections (5)(a), (c), (d), (f) or (g) of this rule, respectively. Unless specifically required by a mutual agreement and order pursuant to ORS 465.325, the surcharge provisions of ORS 459.311 shall not be used to meet the financial assurance requirements of this rule for financial assurance for corrective action.

FINANCIAL ASSURANCE CRITERIA: REGIONAL LANDFILLS

340-94-150

...3 If a municipal solid waste-landfill is subject to 40 CFR, Part 258 as provided in 40 CFR, §258.1, the owner or operator shall comply with financial assurance criteria in 40 CFR, Part 258, Subpart G. All permittees of regional disposal sites shall also comply with this rule:

(1) (a) Prior to first receiving waste, the applicant for a new regional disposal site shall submit to and have approved by the Department, a financial assurance plan. The applicant shall allow at least 90 days for Department review of the submitted plan. For purposes of this rule "new regional disposal site" is a regional disposal site which has received no waste prior to January 1, 1988;

- (b) Regional disposal sites existing on January 1, 1988 must submit to the Department a financial assurance plan with their application for renewal of the existing solid waste disposal permit at least three months prior to permit expiration;
- (c) The financial assurance-plan must be in accordance with OAR 340 94 140(1)(a),

	(b) and (c).]
[(2)	The total amount of financial assurance to be provided shall be the greater of:
	(a) The sum of closure and post closure estimated costs as approved by the Department; or
	(b) \$1,000,000.
(3)	
	(b) If the financial assurance plan provides for accumulation of the total amoun over a period of time, the time shall not exceed five years from startup or renewal of the permit.
(4)	The financial assurance plan must be evaluated by the applicant at least once each f years or sooner if there is a significant change in the operational plan for the region landfill. The applicant must provide to the Department financial assurance in an an sufficient for the revised financial assurance plan.}
[(5) —	Financial assurance shall provide that the Department may use a portion or all of th financial assurance to cover study/repair and remedial action to address pollution of or water off the landfill site provided that:
	(a) The permittee has been properly notified of the problem requiring remedial action and given a time period based on the severity of the discharge for correction;
	(b) The permittee fails to respond to the notice;
	(c) It can be demonstrated that the permittee has exhausted other sources of revenue.
(6)	If the Department requires use of the financial assurance for remedial action, the permittee shall submit a plan within three months to re-establish the fund.
(7) —	If a financial assurance is provided under OAR 340-94-140(3)(c)(A), (B) or (G) upon successful closure and release from permit requirements by the Department, any exec money in the financial assurance account must be used in a manner consistent with (340-94-140(3)(a)(C).] [Renumbered to OAR 340-94-140(8)(e) and OAR 340-95- 090(8)(e)]
[(8)	The permittee is subject to audit by the Department and shall allow the Department access to all records relating to closure plan and other financial records if financial assurance consists of the requirements of OAR 340 94 140(3)(c)(A), (B) or (G).
landfil costs-c adjuste	-In addition to the requirements set forth in this rule, 40 CFR, §258.61 requires munic l owners and operators subject to 40 CFR, Part 258 to maintain financial assurance fo f closure, post closure care and corrective action. The financial assurance costs must rd annually to compensate for inflation. Municipal solid waste landfill owners and prs-are subject to the requirements of Federal law.)]

OAR 340 Division 95: LAND DISPOSAL SITES OTHER THAN MUNICIPAL SOLID WASTE LANDFILLS

CLOSURE AND POST-CLOSURE CARE: CLOSURE PERMITS

340-95-050 [Renumbered from 340-61-028; incorporates part of 340-61-020]

- (1) [Renumbered from 340-61-020(7):] Closure Permit:
 - (a) At least five years prior to anticipated *final* closure of a non-municipal land disposal site, the person holding the disposal site permit shall apply to renew the permit to cover the period of time remaining for site operations, closure of the site, and all or part of the time that active post-closure site maintenance is required by the Department[-]. This last permit issued before final closure of the landfill is scheduled to occur shall be called a "closure permit;"
 - (b) The person who holds or last held the non-municipal land disposal site permit, or, if that person fails to comply, then the person owning or controlling a non-municipal land disposal site that is closed and no longer receiving solid waste after January 1, 1980, must continue or renew the disposal site permit after the site is closed for the duration of the period in which the Department continues to actively supervise the site, even though solid waste is no longer received at the site.
- (2) [Renumbered from 340-61-028] Applications for closure permits must include but are not limited to:
 - (a) A [closure plan] Final Engineered Site Closure Plan prepared in accordance with OAR 340-95-060[;]. In lieu of requiring the Final Engineered Site Closure Plan as a part of the application for a closure permit, the Department may specify a date in the closure permit for submission of the Final Engineered Site Closure Plan;
 - (b) <u>A Final Engineered Post-closure Plan prepared in accordance with OAR 340-</u> 95-065. In lieu of requiring the Final Engineered Site Closure Plan as a part of the application for a closure permit, the Department may specify a date in the closure permit for submission of the Final Engineered Site Closure Plan;
 - [(b) -- A financial assurance plan prepared in accordance with OAR 340 95-090 unless exempted by the Department pursuant to section (3) of this rule;]
 - (c) If the permittee does not own and control the property, <u>a demonstration[the</u> <u>permittee shall demonstrate]</u> to the Department that the permittee has access to the non-municipal land disposal site property after closure to monitor and maintain the site and operate any environmental control facilities;
 - (d) If any person other than the permittee assumes any responsibility for any closure or post-closure activities, that responsibility shall be evidenced by a written contract between the permittee and each person assuming any responsibility.

		epartment may exempt from the financial assurance requirements any non- ipal land disposal site-including but not limited to demolition waste sites and
	indust	rial waste sites. To be eligible for this exemption, the applicant shall demonst
		satisfaction of the Department that the site meets-all of the following-criteria
		he site is likely to continue to meet all of these criteria until the site is closed i
		er-approved by the Department:
	(a) —	The non-municipal land disposal site poses-no significant-threat-of adverse impact on groundwater or surface water;
	(b)	- The non-municipal land disposal site poses no significant threat-of adverse impact on public health or safety;
	<i>.</i>	
	(c)	No-system-requiring active-operation and maintenance is necessary for controlling or stopping discharges to the environment;
	(d) —	— The area of the non municipal land disposal site that has been used for was disposal and has not yet been properly closed in a manner acceptable to th Department is less than and remains less than two acres or complies with a closure schedule approved by the Department.]
[(4)	meets availa and ve constr propo	ermining if the applicant has demonstrated that a non municipal land disposal the financial assurance exemption criteria, the Department will consider exist able information including, but not limited to, geology, soils, hydrology, waste olume, proximity to and uses of adjacent properties, history of site operation a uction, previous compliance inspection reports, existing monitoring data, the sed method of closure and the information submitted by the applicant. The tment may request additional information if needed
(5)	remaii exemp exemp	emption from the financial-assurance-requirement-granted-by the Department v n-valid only so long as the non-municipal-land disposal site-continues to meet- tion-criteria in section (3) of this rule. If the site fails to continue to meet the tion-criteria, the Department-may modify the closure permit to require financi ance.] [340-95-050(3)-(5) renumbered to 340-95-090(2)]
<u>(3)</u>	Depar	While a closure permit is in effect, the permittee shall submit a report to the tment within 90 days of the end of the permittee's fiscal year or as otherwise ed in writing by the Department, which contains but is not limited to:
	(a)	An evaluation of the approved closure or post-closure plan as applicable discussing current status, unanticipated occurrences, revised closure date
		projections, necessary changes, etc.;
	(b)	

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- (4) $\frac{((7))}{(7)}$ The Department shall terminate closure permits for non-municipal land disposal sites not later than 30 years after the site is closed unless the Department finds there is a need to protect against a significant hazard or risk to public health or safety or the environment.
- (5) [(8)]Any time after a non-municipal land disposal site is closed, the permit holder may apply for a termination of the permit, a release from one or more of the permit requirements or termination of any applicable permit fee. Before the Department grants a termination or release under this section, the permittee must demonstrate and the Department must find that *human health and the environment will be protected and* there is no longer a need for:
 - (a) Active supervision of the site;
 - (b) Maintenance of the site; or
 - (c) Maintenance or operation of any system or facility on the site.
- [(9) The Department or an authorized governmental agency may enter a non municipal land disposal site property at reasonable times to inspect and monitor the site as authorized by ORS 459.285.] [Renumbered to 340-93-050(5)(e)]
- (6) [(10)] The closure permit remains in effect and is a binding obligation of the permittee until the Department terminates the permit according to section (4) or (5) [(7) or (8)] of this rule or upon issuance of a new closure permit for the site to another person following receipt of a complete and acceptable application.

CLOSURE AND POST-CLOSURE CARE: CLOSURE PLANS

340-95-060 [Renumbered from 340-61-033]

To comply with the financial assurance requirements of OAR 340-95-090(1)(a):

(1) Two types of written closure plans shall be prepared.

(a) The two types of closure plan are:

- (A) A conceptual "worst-case" closure plan, for closing the site at its maximum capacity. The plan shall contain sufficient detail to allow a reasonable estimate of the cost of closing the non-municipalland disposal site as required by OAR 340-95-090(1)(a); and subsequently
- (B) A Final Engineered Site Closure Plan, as required by OAR 340-95-050(2)(a), which shall replace the conceptual "worst-case" closure plan.

(b) Schedule for preparation of closure plans.

<u>(A)</u>	The conceptual "worst-case" closure plan shall be prepared and placed				
	in the facility operations office or other location approved by the				
	Department, and the Director shall be notified of that action no later				
	than April 9, 1995 or by the initial receipt of waste, whichever is later;				

- (B) The Final Engineered Site Closure Plan shall be prepared and submitted to the Department five years before the anticipated final closure date, or at a date specified in the permittee's closure permit pursuant to OAR 340-95-050(2)(a).
- (3) <u>Requirements for closure plans.</u> [(1)] A closure plan [must] shall specify the procedures necessary to completely close the non-municipal land disposal site at the end of its intended operating life. [The plan must also identify the post-closure activities which will be carried on to properly monitor and maintain the closed non municipal land disposal site. At a minimum, the plan shall include:]

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- (a) <u>Requirements for the conceptual "worst-case" closure plan shall consist of at</u> <u>least the following:</u>
 - (A) A description of the steps necessary to close all non-municipalland disposal units at any point during their active life;
 - (B) A description of the final cover system that is designed to minimize infiltration and erosion;
 - (C) An estimate of the largest area of the non-municipalland disposal unit ever requiring a final cover; and
 - (D) An estimate of the maximum inventory of wastes ever on-site over the active life of the facility.
- (b) Requirements for the Final Engineered Site Closure Plan. In addition to the requirements for the conceptual "worst-case" closure plan, the Final Engineered Site Closure Plan shall consist of at least the following elements:
 - (A) [(a)] Detailed plans and specifications consistent with the applicable requirements of OAR 340-93-140 and 340-95-030(2), unless an exemption is granted as provided in OAR 340-93-070(4);

NOTE: If some of this information has been previously submitted, the permittee shall review and update it to reflect current conditions and any proposed changes in closure [*or post closure*] activities.

- (B) [(b)] A description of how and when the non-municipal land disposal site will be closed. If a landfill, the description shall, to the extent practicable, show how the landfill will be closed as filling progresses to minimize the area remaining to be closed at the time that the site stops receiving waste. A time schedule for completion of closure shall be included;
- [(c) Details of how leachate discharges will be minimized and controlled and treated if necessary; -
- (d) Details of any non-municipal-land disposal site gas control facilities, their operation and frequency of monitoring;]
 - (C) {(e)} Details of final closure. If a landfill, {the}details of final cover including soil texture, depth and slope;

(D) [(f)] Details of surface water drainage diversion; and

[(g) -- A schedule of monitoring the site after closure;-

- (h) A projected frequency of anticipated inspection and maintenance activities at the site after closure, including but not limited to repairing, recovering and regrading settlement areas, cleaning out surface water diversion ditches, and re establishing vegetation;]
 - (E) [(i)] Other information requested by the Department necessary to determine whether the non-municipal land disposal site will comply with all applicable rules of the Department.
- (4) [(2) Approval of Closure Plan.] Department approval. The Final Engineered Site Closure Plan is subject to written approval by the Department. After approval by the Department, the permittee shall implement the <u>Final Engineered Site C[c]</u>losure [p]Plan within the approved time schedule.
- (5) [(3)] Amendment of Plan. The approved <u>Final Engineered Site C[c]</u>losure <u>P[p]</u>lan may be amended at any time [during the active life of the non municipal land disposal site or during the post-closure care period] as follows:
 - (a) The permittee must amend the plan whenever changes in operating plans or facility design, or changes in OAR Chapter 340 Divisions 93 through 97, or events which occur during the active life of the landfill *[or during the post closure care period,]* significantly affect the plan. The permittee must also amend the plan whenever there is a change in the expected year of closure. The permittee must submit the necessary plan amendments to the Department for approval within 60 days after such changes or as otherwise required by the Department;
 - (b) The permittee may request to amend the plan to alter the closure requirements[, to alter the post closure care requirements, or to extend or reduce the post closure care period] based on cause. The request must include evidence demonstrating to the satisfaction of the Department that:
 - (A) The nature of the non-municipal land disposal site makes the closure [or post-closure-care] requirements unnecessary; or
 - [(B) The nature of the non municipal land disposal site supports reduction of the post-closure care period; or]
 - (B) [(C)] The requested [extension in the post closure care period or] alteration of closure [or post-closure care] requirements is necessary to prevent threat of adverse impact on public health, safety or the environment.
 - (c) The Department may amend a permit to require the permittee to modify the plan if it is necessary to prevent the threat of adverse impact on public health, safety or the environment. Also, the Department may [extend or reduce the post closure care period or] alter the closure [or post closure care] requirements based on cause.

CLOSURE AND POST-CLOSURE CARE: POST-CLOSURE PLANS

<u>340-95-065</u>

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To comply with the financial assurance requirements of OAR 340-95-090(1)(b):

- (1) Two types of written post-closure plans shall be prepared:
 - (a) <u>A "conceptual" post-closure plan; and subsequently</u>
 - (b) A Final Engineered Post-closure Plan as required by OAR 340-95-050(2)(b). When prepared, this shall include all requirements of and replace the "conceptual" post-closure plan.
- (2) Schedule for preparation of post-closure plans.
 - (a) The "conceptual" post-closure plan shall be placed in the facility operations office or other location approved by the Department and the Director shall be notified of that action no later than April 9, 1995 or by the initial receipt of waste, whichever is later;
 - (b) The Final Engineered Post-closure Plan shall be prepared in conjunction with and submitted to the Department together with the Final Engineered Site Closure Plan required by OAR 340-95-050(2)(b).
- (3) <u>Requirements for post-closure plans. Post-closure plans shall identify the post-closure</u> activities which will be carried on to properly monitor and maintain the closed nonmunicipal land disposal site.
 - (a) <u>Requirements for the "conceptual" post-closure plan shall consist of at least the</u> following:
 - (A) Maintaining the integrity and effectiveness of any final cover;
 - (B) Maintaining and operating the leachate collection system, if required pursuant to OAR 340-95-020(5);
 - (C) Monitoring the groundwater, if required pursuant to OAR 340-95-040;
 - (D) Maintaining and operating the gas monitoring system if required pursuant to OAR 340-95-020(9);
 - (E) Monitoring and providing security for the landfill site; and
 - (E) Description of the planned uses of the property during the post-closure care period.
 - (b) <u>Requirements for the Final Engineered Post-closure Plan. In addition to the</u> <u>requirements for the "conceptual" post-closure plan, the Final Engineered Post-</u> <u>closure Plan shall consist of at least the following elements:</u>

(A) Detailed plans and specifications consistent with the applicable requirements of OAR 340-93-140 and 340-95-030(2), unless an

		exemption is granted as provided in OAR 340-93-070(4):
		NOTE: If some of this information has been previously submitted.
		the permittee shall review and update it to reflect current conditions
		and any proposed changes in closure or post-closure activities.
	<u>(B)</u>	Details of how leachate discharges will be minimized and controlled and treated if necessary:
		and neared of necessary,
	<u>(C)</u>	Details of any landfill gas control facilities, their operation and frequency of monitoring;
		prequency of monutation
	<u>(D)</u>	A schedule of monitoring the site after closure;
	<u>(E)</u>	
		activities at the site after closure, including but not limited to
		<u>repairing, recovering and regrading settlement areas, cleaning out surface water diversion ditches, and re-establishing vegetation; and</u>
	<u>(F)</u>	Any other information requested by the Department necessary to
		determine whether the disposal site will comply with all applicable
		rules of the Department.
(c) Depar	tment approval. The Final Engineered Post-closure Plan is subject to
		n approval by the Department. After approval by the Department, the
		tee shall implement the Final Engineered Post-closure Plan within the
	approv	ved time schedule.
((d) Amena	<u>lment. The approved Final Engineered Post-closure Plan may be</u>
	amend	led at any time as follows:
	<u>(A)</u>	The permittee must amend the Plan whenever changes in operating
		plans or facility design, or changes in OAR Chapter 340 Divisions 93
		through 97, or events which occur during the active life of the landfill
		or during the post-closure care period, significantly affect the Plan. The permittee must submit the <u>necessary</u> plan amendments to the
		Department for approval within 60 days after such changes or as
		otherwise required by the Department;
	(B)	The permittee may request to amend the Plan to alter the post-closure
		care requirements, or to extend or reduce the post-closure care period
		based on cause. The request must include evidence demonstrating to
		the satisfaction of the Department that:
		(i) The nature of the landfill makes the post-closure care
		<u>requirements unnecessary; or</u>
		(ii) The nature of the landfill supports reduction of the
		post-closure care period; or
		(iii) The requested extension in the post-closure care period or
		alteration of post-closure care requirements is necessary to
		prevent threat of adverse impact on public health, safety or
		<u>the environment.</u>

 $\begin{array}{c} 12\\ 13\\ 14\\ 15\\ 16\\ 17\\ 18\\ 9\\ 20\\ 1\\ 22\\ 23\\ 24\\ 25\\ 26\\ 7\\ 28\\ 9\\ 31\\ 23\\ 34\\ 35\\ 36\\ 37\\ 8\\ 9\\ 41\\ 42\\ 43\\ 44\\ 5\\ 46\\ 47\\ \end{array}$

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(C) The Department may amend a permit to require the permittee to modify the Plan if it is necessary to prevent the threat of adverse impact on public health, safety or the environment. Also, the Department may extend or reduce the post-closure care period or alter the post-closure care requirements based on cause.

CLOSURE REQUIREMENTS

340-95-070 [Renumbered from 340-61-042]

Each permittee of a non-municipalland disposal site that closes after January1, 1980 shall comply with this rule.

- (1) When solid waste is no longer received at a non-municipal land disposal site, the person who holds or last held the permit issued under ORS 459.205 or, if the person who holds or last held the permit fails to comply with this section, the person owning or controlling the property on which the disposal site is located, shall close and maintain the site according to the requirements of ORS Chapter 459, all applicable rules adopted by the Commission under ORS 459.045 and all requirements imposed by the Department as a condition to renewing or issuing a non-municipal land disposal site permit.
- (2) Unless otherwise approved or required in writing by the Department, no person shall permanently close or abandon a non-municipal land disposal site, except in the following manner:
 - (a) All areas containing solid waste not already closed in a manner approved by the Department shall be covered with at least three feet of compacted soil of a type approved by the Department graded to a minimum two percent and maximum 30 percent slope unless the Department authorizes a lesser depth or an alternative final cover design. In applying this standard, the Department will consider the potential for adverse impact from the disposal site on public health, safety or the environment, and the ability for the permittee to generate the funds necessary to comply with this standard before the disposal site closes. A permittee may request that the Department approve a lesser depth of cover material or an alternative final cover design based on the type of waste, climate, geological setting, or degree of environmental impact;
 - (b) Final cover material shall be applied to each portion of a landfill within 60 days after said portion reaches approved maximum fill elevation, except in the event of inclement weather, in which case final cover shall be applied as soon as practicable;
 - (c) The finished surface of the closed areas shall consist of soils of a type or types consistent with the planned future use and approved by the Department. Unless otherwise approved by the Department, a vegetative cover of native grasses shall be promptly established over the finished surface of the closed site;
 - (d) All surface water must be diverted around the area of the non-municipal land disposal site used for waste disposal or in some other way prevented from contacting the waste material;

- (e) All systems required by the Department to control or contain discharges to the environment must be completed and operational.
- (3) Closure of non-municipal land disposal sites shall be in accordance with <u>the</u> detailed <u>Final Engineered Site Closure P[p]</u>lan[s] approved in writing by the Department pursuant to OAR 340-95-060.
- (4) Closure approval:

- (a) When closure is completed, the permittee shall submit a written request to the Department for approval of the closure;
- (b) Within 30 days of receipt of a written request for closure approval, the Department shall inspect the facility to verify that closure has been effected in accordance with the approved closure plan and the provisions of OAR Chapter 340 Divisions 93 and 95;
- (c) If the Department determines that closure has been properly completed, the Department shall approve the closure in writing. Closure shall not be considered complete until such approval has been made. The date of approval notice shall be the date of commencement of the post-closure period.

POST-CLOSURE <u>CARE</u> REQUIREMENTS

340-95-080 [Renumbered from 340-61-043]

- (1) Post-closure requirements:
 - (a) Upon completion or closure of any non-municipal land disposal site where waste remains on-site, a detailed description of the site including a plat should be filed with the appropriate county land recording authority by the permittee. The description should include the general types and location of wastes deposited, depth of waste and other information of probable interest to future land owners;
 - (b) During the post-closure care period, the permittee must, at a minimum:
 - (A) Maintain the approved final contours and drainage system of the site;
 - (B) Consistent with final use, ensure that a healthy vegetative cover is established and maintained over the site;
 - (C) Operate and maintain each leachate and gas collection, removal and treatment system present at the site;
 - (D) Operate and maintain each groundwater and surface water monitoring system present at the site;
 - (E) Comply with all conditions of the closure permit issued by the Department.

(2) Post-closure care period. Post-closure care must continue for 30 years after the date of completion of closure of any non-municipal land disposal site where waste remains on-site, unless otherwise approved or required by the Department according to OAR 340-95-050(4) and (5).[(7) and (8).]

FINANCIAL ASSURANCE CRITERIA

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340-95-090 [Renumbered from 340-61-034]

- (1) Financial Assurance Required. The owner or operator of a non-municipal land disposal site shall maintain <u>a financial assurance plan with</u> detailed written cost estimates of the amount of financial assurance that is necessary and <u>shall</u> provide evidence of financial assurance for the costs of:
 - (a) Closure of the non-municipal land disposal site;
 - (b) Post-closure maintenance of the non-municipal land disposal site; and
 - (c) Any corrective action required by the Department to be taken at the nonmunicipal land disposal site, pursuant to OAR 340-95-040(3).
- (2) Exemptions. The Department may exempt from the financial assurance requirements any non-municipal land disposal site including but not limited to demolition waste sites and industrial waste sites.
 - (a) Exemption criteria. To be eligible for this exemption, the applicant shall demonstrate to the satisfaction of the Department that the site meets all of the following criteria and that the site is likely to continue to meet all of these criteria until the site is closed in a manner approved by the Department:
 - (A) The non-municipal and disposal site poses no significant threat of adverse impact on groundwater or surface water;
 - (B) The non-municipal land disposal site poses no significant threat of adverse impact on public health or safety;
 - (C) No system requiring active operation and maintenanceis necessary for controlling or stopping discharges to the environment;
 - (D) The area of the non-municipalland disposal site that has been used for waste disposal and has not yet been properly closed in a manner acceptable to the Department is less than and remains less than two acres or complies with a closure schedule approved by the Department.
 - (b)
 In determining if the applicant has demonstrated that a non-municipalland

 disposal site meets the financial assurance exemption criteria, the Department

 will consider existing available information including, but not limited to,

 geology, soils, hydrology, waste type and volume, proximity to and uses of

 adjacent properties, history of site operation and construction, previous

 compliance inspection reports, existing monitoring data, the proposed method

of closure and the information submitted by the applicant. The Department may request additional information if needed.

(c)An exemption from the financial assurance requirement granted by theDepartment will remain valid only so long as the non-municipal land disposalsite continues to meet the exemption criteria in subsection (2)(a) of this rule.If the site fails to continue to meet the exemption criteria, the Department maymodify the closure permit to require financial assurance.[Renumbered from340-95-050(3)-(5)]

(3) [(2)]Schedule for provision of financial assurance.

- (a) For costs associated with the conceptual "worst-case" closure plan and the conceptual post-closure plan prepared pursuant to OAR 340-95-060(1)(a)(A) and OAR 340-95-065(1)(a), respectively: Evidence of the required financial assurance for closure and post-closure maintenance of the non-municipal land disposal site [as determined in the financial assurance plan required by OAR 340 95 050(2)(b)] shall be provided [to the Department] on the following schedule:
 - (A) For a new non-municipal land disposal site: no later than the time the solid waste permit is issued by the Department and prior to first receiving waste; or
 - (B) For a non-municipal land disposal site operating under a solid waste permit on November 4, 1993: by April 9, 1995[, or at the time a financial assurance plan is required by OAR 340 95 050(2)(b), whichever is sooner].
- (b) For costs associated with the Final Engineered Site Closure Plan and the Final Engineered Post-closure Plan prepared pursuantto OAR 340-95-060(1)(a)(B) and OAR 340-95-065(1)(b) respectively: Evidence of the required financial assurance for closure and post-closure maintenance of the land disposal site shall be provided at the same time those two Plans are due to the Department.
- (c) [(b)]Evidence of financial assurance for corrective action shall be provided [to the Department] before beginning corrective action.

(d) Continuous financial assurances hall be maintained for the facility until the permittee or other person owning or controlling the site is no longer required to demonstrate financial responsibility for closure, post-closure care or corrective action (if required).

- (4) [(3)]Financial assurance plans. The financialassuranceplan is a vehicle for determining the amount of financialassurancenecessary and demonstrating that financialassuranceis being provided. A financialassuranceplan [required by OAR 340-95-050(2)(b)] shall include but not be limited to the following, as applicable:
 - (a) <u>Cost Estimates.</u> A <u>detailed</u> written estimate of the third-party costs <u>in current</u> <u>dollars (as calculated using a discount rate equal to the current yield of a 5-</u> <u>year U.S. Treasury Note as published in the Federal Reserve's H.15 (519)</u> <u>Selected Interest Rates for the week in which the calculationis done</u>) of:

- (A) Closing the non-municipal land disposal site;
- (B) <u>Providing post-closure care, including i</u>[A]nstalling, operating and maintaining any environmental control system required on the nonmunicipal land disposal site;
- (C) Performing required corrective action activities; and
- [(C) Monitoring and providing security for the non-municipal land disposal site; and]
- (D) Complying with any other requirement the Department may impose as a condition of *[renewing the permit.]* issuing a closure permit, closing the site, maintaining a closed facility, or implementing corrective action.
- (b) The source of the cost estimates;

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- (c) [(b)] A detailed description of the form of the financial assurance <u>and a copy</u> of the financial assurance mechanism;
- (d) [(c)] A method and schedule for providing for or accumulating any required amount of funds which may be necessary to meet the financial assurance requirement;
- (e) [(d)] A proposal <u>with provisions satisfactory</u> to the Department for disposing of any excess moneys received or interest earned on moneys received for financial assurance, *if applicable*.
 - (A) To the extent practicable <u>and to the extent allowed by any franchise</u> <u>agreement</u>, the applicant's provisions for disposing of the excess moneys received or interest earned on moneys shall provide for:
 - (i) $\frac{(i)}{(i)}$ A reduction of the rates a person within the area served by the non-municipal land disposal site is charged for solid waste collection service as defined by ORS 459.005; or
 - (ii) [(B)] Enhancing present or future solid waste disposal facilities within the area from which the excess moneys were received.
 - (B) If the non-municipal land disposal site is owned and operated by a private entity not regulated by a unit of local government, excess moneys and interest remaining in any financial assurance reserve shall be released to that business entity after post-closure care has been completed and the permittee is released from permit requirements by the Department.
- (f) The financial assurance plan shall contain adequate accounting procedures to insure that the permittee does not collect or set aside funds in excess of the amount specified in the financial assurance plan or any updates thereto or use the funds for any purpose other than required by paragraph(8)(a) of this rule; [Renumbered from 340-95-090(8)(b)]

(g) The certification required by subsection (6)(c) of this rule; and

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- (h) The annualupdates required by subsection (6)(d) of this rule.
- (5) [(4)]Amount of Financial Assurance Required. [The amount of financial assurance required shall be established based upon the estimated closure and post-closure-care costs included in the approved closure plan. This required amount may be adjusted as the plan is amended:] The amount of financial assurance required shall be established as follows:
 - (a) Closure. Detailed cost estimates for closure shall be based on the conceptual <u>"worst-case" closure plan or the final Engineered Site Closure Plan, as</u> <u>applicable. Cost estimates for the Final Engineered Site Closure plan shall</u> <u>take into consideration at least the following:</u>

[(a) In reviewing-the adequacy of the amount of financial assurance proposed by the applicant, the Department shall consider the following:]

- (A) Amount and type of solid waste deposited in the site;
- (B) Amount and type of buffer from adjacent land and from drinking water sources;
- (C) Amount, type, availability and cost of required cover;
- (D) Seeding, grading, erosion control and surface water diversion required;
- (E) Planned future use of the disposal site property;
- [(F) Type, duration of use, initial cost and maintenance cost of any active system necessary for controlling or stopping discharges;]
- (F) [(G)] The portion of the site property closed before final closure of the entire site; <u>and</u>
- (G) [(H)] Any other conditions imposed on the permit relating to closure [or post closure] of the site[;].
- [(I) The financial capability of the applicant.
- (b) After reviewing the proposed amount of financial assurance, the Department may either:
 - (A) Approve the amount proposed by the applicant; or
 - (B) Disapprove the amount and require the applicant to submit a revised amount consistent with the factors considered by the Department.]

(b) Post-closure care. Detailed cost estimates for post-closure care shall be based on the conceptual post-closure plan or the Final Engineered Post-closure Plan, as applicable. Cost estimates for the Final Engineered Post-closure Plan shall also take into consideration at least the following:

- (A) Type, duration of use, initial cost and maintenancecost of any active system necessary for controlling or stopping discharges; and
- (B) Any other conditions imposed on the permit relating to post-closure care of the site.
- (c) Corrective action. Estimated total costs of required corrective action activities for the entire corrective action period, as described in a corrective action report pursuant to requirements of OAR 340-95-040(3).
- (d) If a permittee is responsible for providing financial assurance for closure, postclosure care and/or corrective action activities at more than one non-municipal land disposal site, the amount of financial assurance required is equal to the sum of all cost estimates for each activity at each facility.
- (6) How Financial Assurance Is to Be Provided and Updated.

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- (a) The permittee shall submit to the Department a copy of the first financial assurancemechanism prepared in association with a conceptual "worst-case" closure plan, a Final Engineered Site Closure Plan, a conceptual post-closure plan, a Final Engineered Post-closure Plan, and a corrective action report.
- (b) The permittee shall also place a copy of the applicable financial assurance plan(s) in the facility operations office or another location approved by the Department on the schedule specified in Section (3) of this rule.
- (c) The permittee shall certify to the Director at the time a financialassuranceplan is placed in the facility operations office or other approved location that the financialassurancemechanism meets all state requirements. This date becomes the "annualreview date" of the provision of financialassurance, unless a corporate guaranteeis used, in which case the annualreview date is 90 days after the end of the corporation's fiscal year.
- (d) Annual update. The permittee shall annually review and update the financial assuranceduring the operating life and post-closure care period, or until the corrective action is completed, as applicable.
 - (A) The annual review shall include:
 - (i) An adjustment to the cost estimate(s) for inflation and in the discount rate as specified in subsection (4)(a) of this rule;
 - (ii) A review of the closure, post-closure and corrective action (if required) plans and facility conditions to assess whether any changes have occurred which would increase or decrease the estimated maximum costs of closure, post-closure care or corrective action since the previous review;
 - (iii) If a trust fund or other pay-in financial mechanism is being used, an accounting of amounts deposited and expenses drawn from the fund, as well as its current balance.
 - (B) The financial assurance mechanism(s) shall be increased or may be reduced to take into consideration any adjustments in cost estimates

identified in the annualreview.

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(C) The annualupdate shall consist of a certification from the permittee <u>submitted to the Department and placed in the facility operations</u> <u>office or other approved location</u>. The certification shall state that <u>the financialassuranceplans(s) and financialassurancemechanism(s)</u> <u>have been reviewed, updated and found adequate, and that the updated</u> <u>documents have been placed at the facility operations office or other</u> <u>approved location</u>. The annualupdate shall be no later than:

- (i) The facility's annualreview date; or
- (ii) For a facility operating under a closure permit, by the date specified in OAR 340-95-050(3).

(7) Department Review of Financial Assurance and Third-Party Certification.

- (a) The Department may at any time select a permittee to submit financial assuranceplan(s) and financialassurancemechanism(s) for Department review. Selection for review will not occur more frequently than once every five years, unless the Department has reasonable cause for more frequent selection. The Department may, however, review such plans and mechanisms in conjunction with a site inspection at any time.
- (b) A permittee who wants to provide "alternative financial assurance" pursuant to OAR 340-95-095(5)(g) shall submit its financial assurance plan and proposed financial assurance mechanism for Department review and approval on the schedule specified in section (3) of this rule. The submittal shall include certification from a qualified third party that the financial assurance mechanism meets all state requirements for financial assurance, and is reasonably designed to provide the required amount of financial assurance. The third-party certification shall be submitted in a format acceptable to the Department.
- (c) The Department will review the financial assurance and the third-party certification, if applicable, for compliance with state laws.
- [(5) Form of Financial Assurance. The financial assurance may be in any form proposed by the applicant if it is approved by the Department:

(a) The Department will approve forms of financial assurance to cover the ongoing closure activities occurring while the non municipal land disposal site is still receiving solid waste where the applicant can prove to the satisfaction of the Department that all of the following conditions can be met:

(A) That financial assurance moneys in excess of the amount approved by the Department will not be set aside or collected by the disposal site operator. The Department may approve an additional amount of financial assurance during a review conducted in conjunction with a subsequent application to amend or renew the non municipal land disposal site permit or a request by the owner or operator of a disposal site to extend the useful life of the site. Nothing in this subsection shall prohibit a site operator from setting aside an additional reserve from funds other than those collected from rate

. 1		payers specifically for closure and post closure and such a reserve
2		shall not be part of any fund or set-aside required in the applicable
3		financial assurance plan;]
4		Juanciai assarance plan, j
5		[(B) That the use of financial assurance is restricted so that the financial
6		resources can only be used to guarantee that the following activities
7		will be performed or that the financial resources can only be used to
8	-	finance the following activities and that the financial resources cannot
9		be used for any other purpose: -
.10		(i) Close the non municipal land disposal site according to the
11		approved closure plan;
12		(ii) Install, operate and maintain any required environmental
12		(ii) Control systems;
13		contror systems,
14		(iii) Monitor and provide provide for the new president land
15 16		(iii) Monitor and provide security for the non-municipal-land
		disposal site;
17		(in) County with conditions of the electric powert]
18		(iv) Comply with conditions of the closure permit.]
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20		{(C) That, to the extent practicable, all excess moneys received and interest
21		earned on moneys shall be disposed of in a manner which shall provide
22		f or:
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24		(i) A reduction of the rates a person within the area served by
25		the non municipal land disposal site is charged for solid
26		waste collection service (as defined by ORS 459.005); or
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∠8		(ii) Enhancing present or future solid waste disposal facilities
29		within the area from which the excess moneys were received;
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32		(iii) Where the non-municipal-land disposal site is operated-and
33		exclusively-used to dispose of solid waste generated by a
34		single business entity, excess moneys and interest remaining
35		in the financial assurance reserve shall be released to that
36		business-entity at the time that the permit is terminated.]
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, 38	[(b)	If the permittee fails to adequately perform the ongoing closure activities in
39		accordance with the closure plan and permit-requirements, the permittee shall
40		provide an additional amount of financial assurance in a form meeting the
41		requirements of subsection (5)(c) of this rule within 30 days-after service of a
42		Final Order assessing a civil penalty. The total amount of financial assurance
43		must be sufficient to cover-all remaining closure and post closure activities;
44		
45	(c) —	The Department will approve only the following forms of financial assurance for
46		the final-closure and post closure activities which will occur after the non-
47		municipal land disposal site stops receiving solid waste:
48		· · · · · · · · · · · · · · · · · · ·
49		(A) A closure trust fund-established with an entity which has the authority to
50		act as a trustee and whose trust operations are regulated and examined
51		by a federal or state agency. The wording of the trust agreement must
52		by a feasibility of state agency. The wording of the trast agreement mass be acceptable to the Department. The purpose of the closure trust fund
3		is to receive and manage any funds that may be paid by the permittee
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and to disburse those funds only for closure or post closure maintenance activities which are authorized by the Department. Within 60 days after receiving itemized bills for closure activities, the Department will determine whether the closure expenditures are in accordance with the closure plan or otherwise justified and, if so, will send a written request to the trustee to make reimbursements;]

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A surety bond guaranteeing payment into a closure trust fund issued by [(B) a surety company listed as acceptable in Circular 570 of the U.S. Department of the Treasury. The wording of the surety bond must be acceptable to the Department. A standby closure trust fund must also be established by the permittee. The purpose of the standby closure trust fund is to receive any funds that may be paid by the permittee or surety company. The bond must guarantee that the permittee will either fund the standby closure-trust fund in an amount equal to the penal sum of the bond before the site stops receiving waste or within 15 days after an order to begin closure is issued by the Department or by a court of competent jurisdiction; or that the permittee will provide alternate financial assurance acceptable to the Department within 90 days after receipt of a notice of cancellation of the bond-from the surety. The surety shall become liable on the bond obligation if the permittee fails to perform as guaranteed by the bond. The surety may not cancel the bond until at least 120 days after the notice of cancellation has been received by both the permittee and the Department. If the permittee has not provided alternate financial assurance acceptable to the Department within 90 days of the cancellation notice, the surety must pay the amount of the bond into the standby closure trust account;]

A surety bond guaranteeing performance of closure issued by a surety $\left(C \right)$ company listed as acceptable in Circular 570 of the U.S. Department of the Treasury. The wording of the surety bond-must be acceptable to the Department. A standby closure trust fund must also be established by the permittee. The purpose of the standby closure trust fund is to receive any funds that may be paid by the surety company. The bond must guarantee that the permittee will either perform final closure and post closure maintenance or provide alternate financial assurance acceptable to the Department within 90 days after receipt of a notice of cancellation of the bond from the surety. The surety shall become liable on the bond obligation if the permittee fails to perform as guaranteed by the bond. The surety may not cancel the bond until at least 120 days after the notice of cancellation has been received by both the permittee and the Department. If the permittee has not provided alternate financial assurance acceptable to the Department within 90 days of the cancellation notice, the surety must pay the amount of the bond into the standby closure trust account;]

[(D) An irrevocable letter of credit issued by an entity which has the authority to issue letters of credit and whose letter of credit operations are regulated and examined by a federal or state agency. The wording of the letter of credit must be acceptable to the Department. A standby closure trust fund must also be established by the permittee. The purpose of the standby closure trust fund is to receive any funds deposited by the issuing institution resulting from a draw on the letter of credit. The letter of credit must be irrevocable and issued for a period of at least one year unless the issuing institution notifies both the permittee and the Department at least 120 days before the current expiration date. If the permittee fails to perform closure and post closure activities according to the closure plan and permit requirements, or if the permittee fails to provide alternate financial assurance acceptable to the Department within 90 days after notification that the letter of credit;]

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A closure insurance policy issued by an insurer who is licensed to (E)transact the business of insurance or is eligible as an excess or surplus lines-insurer in one or more states. The wording of the certificate of insurance must be acceptable to the Department. The closure insurance policy must guarantee that funds will be available to complete final closure and post closure maintenance of the site. The policy must also guarantee that the insurer will be responsible for paying out funds for reimbursement of closure and post closure expenditures after notification by the Department that the expenditures are in accordance with the closure plan or otherwise justified. The policy must provide that the insurance is automatically renewable and that the insurer may not cancel, terminate or fail to renew the policy except for failure to pay the premium. If there is a failure to pay the premium, the insurer may not terminate the policy until at least 120 days after the notice of cancellation has been received by both the permittee and the Department. Termination of the policy may not occur and the policy must remain in full force and effect if: the Department determines that the land disposal site has been abandoned; or the Department has commenced a proceeding to modify the permit to require immediate elosure; or closure has been ordered by the Department, Commission or a court of competent jurisdiction; or the permittee is named as debtor in a voluntary or involuntary proceeding under Title 11 (Bankruptcy), U.S. Code; or the premium due is paid. The permittee is required to maintain the policy in full force and effect until the Department consents to termination of the policy when alternative financial assurance is provided or when the permit is terminated;]

[(F) Corporate guarantee. A private corporation meeting the financial test may provide a corporate guarantee that closure and post closure activities will be completed according to the closure plan and permit requirements. To qualify, a private corporation must meet the criteria of either subparagraph (i) or (ii) of this paragraph:

> (i) Financial Test. To pass the financial test, the permittee must have:

> > (I) Two of the following three ratios: A ratio of total liabilities to net worth less than 2.0; a ratio of the sum of net income plus depreciation, depletion, and amortization to total liabilities greater than 0.1; or a ratio of current assets to current liabilities greater than 1.5;

1 2 3		(II) Net working capital and tangible net worth each at least six times the sum of the current closure and post closure cost estimates;
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5		(III) Tangible net worth of at least \$10 million; and
6 7		(IV) Assets in the United States amounting to at least 90
8		percent of its total assets or at least six times the sum
9		of the current closure and post closure cost estimates.]
10		by the current closure and post closure cost estimates.
11	[(ii)	Alternative Financial Test. To pass the alternative financial
12	[(**)	test, the permittee must have:
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14		(I) A current rating of AAA, AA, A, or BBB as issued by
15		Standard and Poor's or Aaa, Aa, A, or Baa as issued
16		by Moody's;
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18		(II) Tangible net worth at least six times the sum of the
19		current closure and post closure cost estimates;
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21		(III) Tangible net worth of at least \$10 million; and
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23		(IV) Assets in the United States amounting to at least 90
24		percent of its total assets or at least six times the sum
25		of the current closure and post closure cost estimates.]
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`7	[<i>(</i>iii)	The permittee shall demonstrate that it passes the financial
<i>∠</i> 8		test at the time the financial assurance plan is filed and
29		reconfirm that annually 90 days after the end of the
30		corporation's fiscal year by submitting the following items to
31		the Department:
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33		(I) A letter signed by the permittee's chief financial officer
34		that provides the information necessary to document
35		that the permittee passes the financial test; that
36		guarantees that the funds to finance closure and
37		post closure activities according to the closure plan
38		and permit requirements are available; that guarantees
39		that the closure and post closure activities will be
40		completed according to the closure plan and permit
41		requirements; that guarantees that the standby closure
42		trust fund will be fully funded within 30 days after
43		either service of a Final Order assessing a civil
44		penalty from the Department for failure to adequately
45		perform closure or post closure activities according to
46 47		the closure plan and permit, or service of a written notice from the Department that the permittee no
47		house from the Department that the permutee no longer meets the criteria of the financial test; that
49		guarantees that the permittee's chief financial officer
50		will notify the Department within 15 days any time that
51		the permittee no longer meets the criteria of the
52		financial test or is named as debtor in a voluntary or
3		involuntary proceeding under Title 11-(Bankruptcy),

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U.S. Code; and that acknowledges that the corporate guarantee is a binding obligation on the corporation and that the chief financial officer has the authority to bind the corporation to the guarantee; [(II) A copy of the independent certified public accountant's report on examination of the permittee's financial statements for the latest-completed fiscal year; (III) A special report from the permittee's independent certified public accountant (CPA) stating that the CPA has compared the data which the letter from the permittee's chief financial officer specifies as having been derived from the independently audited year end financial statements for the latest-fiscal year with the amounts in such financial statement, and that no matters came to the CPA's attention which caused the CPA to believe that the specified data should be adjusted; (IV) A trust agreement demonstrating that a standby closure trust fund has been established with an entity which has authority to act as a trustee and whose trust operations are regulated and examined by a federal-or state agency. The wording of the trust agreement must be acceptable to the Department.] The Department may, based on a reasonable belief that the Far) permittee no-longer meets the criteria of the financial test, require reports of the financial condition at any time from the permittee in addition to the annual report. If the Department finds, on the basis of such reports or other information, that the permittee no longer meets the criteria of the financial test, the permittee shall fully fund the standby closure trust fund within 30 days after notification by the Department. (G)Alternative forms of financial assurance where the applicant can prove to the satisfaction of the Department that the level of security is equivalent to paragraphs (A) through (F) of this subsection and that the criteria of subsection (5)(a) of this rule are met.] [Note: 340-95-090(5) is being renumbered into a new rule, 340-95-095] (8) [(6)]Accumulation [and use] of any financial assurance funds: (a) *The applicant shall set aside The financial assurance mechanisms for closure*, post-closure care and corrective action shall ensure the funds will be available in

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52 3ر [The applicant shall set aside] The financial assurance mechanisms for closure, post-closure care and corrective action shall ensure the funds will be available in a timely fashion when needed. The permittee shall pay moneys into a trust fund[s] in the amount and at the frequency specified in the financial assurance plan[approved by the Department.] or obtain other financial assurance mechanisms as specified in the financial assurance plan, on the schedule specified in section (3) of this rule.

- (A) Closure. The total amount of financial assurance required for closure shall be available in the form [approved by the Department at the time that solid waste is no longer received at the site;] specified in the financial assurance plan or any updates thereto, whenever final closure of a non-municipal land disposal site unit is scheduled to occur in the conceptual "worst case" closure plan or in the Final Engineered Site Closure Plan.
- (B) Post-closure care. The total amount of financial assurance required for post-closure care shall be available in the form specified in the financial assurance plan or any updates thereto, whenever post-closure care is scheduled to begin for a non-municipal land disposal site unit in the conceptual post-closure plan or in the Final Engineered Post-closure Plan.
- (C) Corrective action. The total amount of financial assurance required for corrective action shall be available in the form specified in the financial assurance plan or any updates thereto on the schedule specified in the corrective action selected pursuant to OAR 340 Division 40.
- [(b) The financial assurance plan shall-contain adequate accounting procedures to insure that the disposal site operator does not collect or set aside funds in excess of the amount approved by the Department or use the funds for any purpose other than required by paragraph (5)(a)(B) of this rule;] [Renumbered to 340-95-090(4)(f)]
- (b) [(c)]The permittee is subject to audit by the Department (or Secretary of State) and shall allow the Department access to all records during normal business hours for the purpose of determining compliance with this rule <u>and OAR 340-</u><u>95-095</u>;
- (c) [(d)]If the Department determines that the permittee did not set aside the required amount of funds for financial assurance in the form and at the frequency required by the <u>applicable [approved]</u> financial assurance plan, or if the Department determines that the financial assurance funds were used for any purpose other than as required in <u>section (1)[paragraph (5)(a)(B)]</u> of this rule, the permittee shall, within 30 days after notification by the Department, deposit a sufficient amount of financial assurance in the form required by the <u>applicable [approved]</u> financial assurance plan along with an additional amount of financial assurance been deposited on time or had it not been withdrawn for unauthorized use[-];
- (d) If financial assurance is provided under OAR 340-95-095(5)(a), (b) or (g), upon successful closure and release from permit requirements by the Department, any excess money in the financial assurance account must be used in a manner consistent with subsection (4)(e) of this rule. [Renumbered from OAR 340-94-150(7)]

[Publications: The publication(s) referred to or incorporated by reference in this rule are available from the Department of Environmental Quality.]

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NEW RULE:

FINANCIAL ASSURANCE MECHANISMS

340-95-095 [Renumbered from 340-95-090(5)]

- [(5)] Form of Financial Assurance. [*The financial assurance may be in any form proposed by the applicant if it is approved by the Department:*
 - (a) The Department will approve forms of financial assurance to cover the ongoing closure activities occurring while the non-municipal land disposal site is still receiving solid waste where the applicant can prove to the satisfaction of the Department that all of the following conditions can be met:
 - (A) That financial assurance moneys in excess of the amount approved by the Department will not be set aside or collected by the disposal site operator. The Department may approve an additional amount of financial assurance during a review conducted in conjunction with a subsequent application to amend or renew the non municipal land disposal site permit or a request by the owner or operator of a disposal site to extend the useful life of the site. Nothing in this subsection shall prohibit a site-operator from setting aside an additional reserve from funds other than those collected from rate payers specifically for closure and post closure and such a reserve shall not be part of any fund or set aside required in the applicable financial assurance plan;}
 - {(B) That the use of financial assurance is restricted so that the financial resources can only be used to guarantee that the following activities will be performed or that the financial resources can only be used to finance the following activities and that the financial resources cannot be used for any other purpose: -
 - (i) Close the non municipal land disposal site according to the approved closure plan;
 - (ii) Install, operate and maintain any required environmental control systems;
 - (iii) Monitor and provide security for the non municipal land disposal site;
 - (iv) Comply with conditions of the closure permit.
 - (C) That, to the extent practicable, all excess moneys received and interest earned on moneys shall be disposed of in a manner which shall provide for:
 - (i) A reduction of the rates a person within the area served by the non-municipal land disposal site is charged for solid waste collection service (as defined by ORS 459.005); or
 - (ii) Enhancing present or future solid waste disposal facilities within the area from which the excess moneys were received;

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	or
	(iii) Where the non-municipal land disposal site is operated and exclusively used to dispose of solid waste generated by a single business entity, excess moneys and interest remaining in the financial assurance reserve shall be released to that business entity at the time that the permit is terminated.
	(b) If the permittee fails to adequately perform the ongoing closure activities in accordance with the closure plan and permit requirements, the permittee shall provide an additional amount of financial assurance in a form meeting the requirements of subsection (5)(c) of this rule within 30 days after service of a Final Order assessing a civil penalty. The total amount of financial assurance must be sufficient to cover all remaining closure and post closure activities;]
<u>(1)</u>	The financialassurancemechanism shall restrict the use of the financialassuranceso that the financial resources may be used only to guarantee that closure, post-closure or corrective action activities will be performed, or that the financial resources can be used only to finance closure, post-closure or corrective action activities.
<u>(2)</u>	The financialassurancemechanism shall provide that the Department or a party approved by the Department is the beneficiary of the financialassurance.
<u>(3)</u>	A permittee may use one financialassurancemechanism for closure, post-closure and corrective action activities, but the amount of funds assured for each activity must be specified.
<u>(4)</u>	The financialassurancemechanism shall be worded as specified by the Department, unless a permittee uses an alternative financialassurancemechanism pursuant to subsection (5)(g) of this rule. The Department retains the authority to approve the wording of an alternative financialassurancemechanism.
<u>(5)</u>	{(c) The Department will approve} <u>Allowable Financial Assurance Mechanisms.</u> <u>A</u> <u>permittee shall provide</u> only the following forms of financial assurance for {the final} closure and post-closure activities{ which will occur after the non-municipal land disposal site stops receiving solid waste}:
	(a) [(4)]A [closure] trust fund established with an entity which has the authority to act as a trustee and whose trust operations are regulated and examined by a federal or state agency. [The wording of the trust agreement must be acceptable to the Department.] The purpose of the [closure] trust fund is to receive and manage any funds that may be paid by the permittee and to disburse those funds only for closure, [or] post-closure maintenance or corrective action activities which are authorized by the Department. The permittee shall notify the Department, in writing, before any expenditure of trust fund moneys is made, describing and justifying the activities for which the expenditure is to be made. If the Department does not respond to the trustee within 30 days after receiving such notification, the expenditure is deemed authorized and the trustee may make the requested reimbursements; [Within 60 days after receiving itemized bills for closure activities, the Department will determine whether the closure expenditures are in accordance with the closure plan or otherwise justified and, if so, will send a written request to the trustee to make reimbursements;]

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<u>(b)</u>

[(B)]A surety bond guaranteeing payment into a standby closure or post-closure trust fund issued by a surety company listed as acceptable in Circular 570 of the U.S. Department of the Treasury. [The wording of the surety bond must be acceptable to the Department.] The[A] standby closure or post-closure trust fund must [also] be established by the permittee. The purpose of the standby[*closure*] trust fund is to receive any funds that may be paid by the permittee or surety company. The penal sum of the bond must be in an amount at least equal to the current closure or post-closure care cost estimate, as applicable. The bond must guarantee that the permittee will either fund the standby [closure] trust fund in an amount equal to the penal sum of the bond before the site stops receiving waste or within 15 days after an order to begin closure is issued by the Department or by a court of competent jurisdiction; or that the permittee will provide alternate financial assurance acceptable to the Department within 90 days after receipt of a notice of cancellation of the bond from the surety. The surety shall become liable on the bond obligation if the permittee fails to perform as guaranteed by the bond. The surety may not cancel the bond until at least 120 days after the notice of cancellation has been received by both the permittee and the Department. If the permittee has not provided alternate financial assurance acceptable to the Department within 90 days of the cancellation notice, the surety must pay the amount of the bond into the standby[*closure*] trust account;

[(C)]A surety bond guaranteeing performance of closure, post-closure or (c) corrective action activities issued by a surety company listed as acceptable in Circular 570 of the U.S. Department of the Treasury. [The wording of the surety bond must be acceptable to the Department.] A standby [closure] trust fund must also be established by the permittee. The purpose of the standby [closure] trust fund is to receive any funds that may be paid by the surety company. The bond must guarantee that the permittee will either perform final closure, *[and]* post-closure maintenance or corrective action activities, as applicable, or provide alternate financial assurance acceptable to the Department within 90 days after receipt of a notice of cancellation of the bond from the surety. The surety shall become liable on the bond obligation if the permittee fails to perform as guaranteed by the bond. The surety may not cancel the bond until at least 120 days after the notice of cancellation has been received by both the permittee and the Department. If the permittee has not provided alternate financial assurance acceptable to the Department within 90 days of the cancellation notice, the surety must pay the amount of the bond into the standby [closure] trust account:

(d) [(D)]An irrevocable letter of credit issued by an entity which has the authority to issue letters of credit and whose letter-of-credit operations are regulated and examined by a federal or state agency. [The wording of the letter of credit must be acceptable to the Department.] A standby [closure] trust fund must also be established by the permittee. The purpose of the standby [closure] trust fund is to receive any funds deposited by the issuing institution resulting from a draw on the letter of credit. The letter of credit must be irrevocable and issued for a period of at least one year and shall be automatically extended for at least one year on each successive expiration date unless the issuing institution notifies both the permittee and the Department at least 120 days before the current expiration date. If the permittee fails to perform closure and post-closure activities according to the closure plan and permit requirements, or to perform the selected remedy described in the corrective action report, or if the permittee

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fails to provide alternate financial assurance acceptable to the Department within 90 days after notification that the letter of credit will not be extended, the Department may draw on the letter of credit;

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- [(E)]A closure or post-closure insurance policy issued by an insurer who is (e) licensed to transact the business of insurance or is eligible as an excess or surplus lines insurer in one or more states. [The wording of the certificate of insurance must be acceptable to the Department.] The [closure] insurance policy must guarantee that funds will be available to complete final closure and post-closure maintenance of the site. The policy must also guarantee that the insurer will be responsible for paying out funds for reimbursement of closure and post-closure expenditures [after notification by the Department] that [the expenditures] are in accordance with the closure or post-closure plan or otherwise justified. The permittee shall notify the Department, in writing. before any expenditure of insurancepolicy moneys is made, describing and justifying the activities for which the expenditure is to be made. If the Department does not respond to the insurer within 30 days after receiving such notification, the expenditure is deemed authorized and the insurer may make the requested reimbursements. The policy must provide that the insurance is automatically renewable and that the insurer may not cancel, terminate or fail to renew the policy except for failure to pay the premium. If there is a failure to pay the premium, the insurer may not terminate the policy until at least 120 days after the notice of cancellation has been received by both the permittee and the Department. Termination of the policy may not occur and the policy must remain in full force and effect if: the Department determines that the land disposal site has been abandoned; or the Department has commenced a proceeding to modify the permit to require immediate closure; or closure has been ordered by the Department, Commission or a court of competent jurisdiction; or the permittee is named as debtor in a voluntary or involuntary proceeding under Title 11 (Bankruptcy), U.S. Code; or the premium due is paid. The permittee is required to maintain the policy in full force and effect until the Department consents to termination of the policy when alternative financial assurance is provided or when the permit is terminated;
- (f) [(F)]Corporate guarantee. A private corporation meeting the financial test may provide a corporate guarantee that <u>funds are available for</u> closure, [and] post-closure <u>or corrective action activities</u>, and that those activities will be completed according to the closure <u>or post-closure</u> plan, [and] permit requirements <u>or the selected remedy described in the corrective action report, as applicable</u>. To qualify, a private corporation must meet the criteria of either <u>paragraph(A) or (B) of this subsection:</u> [subparagraph (i) or (ii) of this paragraph:]
 - (A) [(i)]Financial Test. To pass the financial test, the permittee must have:
 - (*i*) [(*i*)]Two of the following three ratios: A ratio of total liabilities to <u>tangible</u> net worth less than <u>3.0[2.0]</u>; a ratio of the sum of net income plus depreciation, depletion, and amortization to total liabilities greater than 0.1; or a ratio of current assets to current liabilities greater than 1.5;
 - (ii) $\frac{(ii)}{(III)}$ Net working capital <u>equal to at least four times</u> and tangible net worth <u>equal to[each]</u> at least six times the sum

12			of the current [<i>closure and post closure</i>] cost estimates <u>covered by the test;</u>
3 4 5		<u>(iii)</u>	[(III)]Tangible net worth of at least \$10 million; and
5 6 7 8 9		<u>(iv)</u>	[(IV)]Assets in the United States amounting to at least [90 percent of its total assets or at least] six times the sum of the current [closure and post closure]cost estimates covered by the test.
10 11 12	<u>(B)</u>		native Financial Test. To pass the alternative financial test, ttee must have:
13 14 15 16			[(I) A current rating of AAA, AA, A, or BBB as issued by Standard and Poor's or Aaa, Aa, A, or Baa as issued by Moody's;
17 18 19			(II) Tangible net worth at least six times the sum of the current closure and post closure cost estimates;
20 21 22			(III) Tangible net worth of at least \$10 million; and
23 24 25			(IV) Assets in the United States amounting to at least 90 percent of its total assets or at least six times the sum of the current closure and post closure cost estimates.]
26 ``7		<u>(i)</u>	Tangible net worth of at least \$10 million; and
∡8 29		<u>(ii)</u>	Two of the following three ratios:
30 31 32			(1) Times Interest Earned (fearnings before interest and taxes] divided by interest) of 2.0 or hither;
33 34 35 36			(II) Beaver's Ratio of 0.2 or higher (internally generated cash] divided by [total liabilities]). Internally generated cash is obtained from taxable income before
37 38 39	· · · · ·		net operating loss, plus credits for fuel tax and investment in regulated investment companies, plus depreciation plus amortization plus depletion, plus any
40 41 42			income on the books not required to be reported for tax purposes if it is likely to be recurring, minus income tax expenses. Total liabilities includes all
43 44 45 46			<u>long- and short-term debt; or</u> (III) Altman's Z-Score of 2.9 or higher.
47 48 49 50	<u>(C)</u>	the time t 90 days a	permittee shall demonstrate that it passes the financial test at he financial assurance plan is filed and reconfirm that annually fter the end of the corporation's fiscal year by submitting the items to the Department:
51 52		<u>(i)</u>	[(I)]A letter signed by the permittee's chief financial officer that provides the information necessary to document that the

permittee passes the financial test; that guarantees that the funds are available to finance closure, [and] post-closure or corrective action activities according to the closure or postclosure plan, [and] permit requirements or the selected remedy described in the corrective action report, as applicable; [are available;] that guarantees that the closure, [and] post-closure or corrective action activities will be completed according to the closure or post-closure plan. [and] permit requirements or selected remedy in the corrective action report, as applicable; that guarantees that the standby [closure] trust fund will be fully funded within 30 days after either service of a Final Order assessing a civil penalty from the Department for failure to adequately perform closure or post-closure activities according to the closure or post-closure plan and permit, or selected remedy in the corrective action report, as applicable, or service of a written notice from the Department that the permittee no longer meets the criteria of the financial test; that guarantees that the permittee's chief financial officer will notify the Department within 15 days any time that the permittee no longer meets the criteria of the financial test or is named as debtor in a voluntary or involuntary proceeding under Title 11 (Bankruptcy), U.S. Code; and that acknowledges that the corporate guarantee is a binding obligation on the corporation and that the chief financial officer has the authority to bind the corporation to the guarantee;

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51 52 (*ii*) [(*II*)]A copy of the independent certified public accountant's (*CPA*) report on examination of the permittee's financial statements for the latest completed fiscal year;

(iii) [(III)]A special report from the permittee's independent <u>CPA[certified public accountant (CPA)]</u> stating that the CPA has compared the data which the letter from the permittee's chief financial officer specifies as having been derived from the independently audited year end financial statements for the latest fiscal year with the amounts in such financial statements, and that no matters came to the CPA's attention which caused the CPA to believe that the specified data should be adjusted;

- (*iv*) [(*IV*)]A trust agreement demonstrating that a standby [*closure*] trust fund has been established with an entity which has authority to act as a trustee and whose trust operations are regulated and examined by a federal or state agency[. The wording of the trust agreement must be acceptable to the Department.]: and
- (v) A list of any facilities in Oregon or elsewhere for which the permittee is using a similar financial means test to demonstrate financial assurance.

(D) [(iv)] The Department may, based on a reasonable belief that the

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permittee no longer meets the criteria of the financial test, require reports of the financial condition at any time from the permittee in addition to the annual report. If the Department finds, on the basis of such reports or other information, that the permittee no longer meets the criteria of the financial test, the permittee shall fully fund the standby *[elosure]* trust fund within 30 days after notification by the Department.

(g) [(G)]Alternative Financial Assurance. Alternative forms of financial assurance may be proposed by the permittee, subject to the review and approval of the Director. The applicant must be able to[where the applicant can] prove to the satisfaction of the Department that the level of security is equivalent to subsections (a) through (f) of this section[paragraphs (A) through (F) of this subsection] and that the criteria of OAR 340-95-090(4)(e) and sections (1) through (3)[subsection (5)(a)] of this rule are met. Submittal of an alternative financial assurance mechanism to the Department for review and approval shall include third-party certification as specified in OAR 340-95-90(7).

(6) Allowable Financial Assurance Mechanisms for Corrective Action. A permittee shall provide one of the following forms of financial assurance for corrective action: a trust fund, a surety bond guaranteeing performance of corrective action, an irrevocable letter of credit, a corporate guarantee, or alternative forms of financial assurance, pursuant to subsections (5)(a), (c), (d), (f) or (g) of this rule, respectively. Unless specifically required by a mutual agreement and order pursuant to ORS 465.325, the surcharge provisions of ORS 459.311 shall not be used to meet the financial assurance requirements of this rule for financial assurance for corrective action.

[Note: the following "APPENDIX" contains all new material. To enhance readability it is not presented in redline format.]

APPENDIX

The following standard forms are given to meet the requirements in OAR 340-94-145(4) and 340-95-095(4) that the financial assurance mechanism be worded as specified by the Department. The references to Oregon Administrative Rules (OAR) as given pertain to OAR 340 Division 94 for municipal solid waste landfills; OAR references in brackets and *italics* [] are to be used instead for financial assurance provided under OAR 340 Division 95, non-municipal solid waste land disposal sites. Otherwise instructions in brackets are to be replaced with the relevant information and the brackets deleted.

I. Trust Fund

(A trust fund, as specified in OAR 340-94-145(5)(a) or OAR 340-95-095(5)(a) must be worded as follows, except that instructions in brackets are to be replaced with the relevant information and the brackets deleted:)

Trust Agreement, the "Agreement," entered into as of [date] by and between Permittee [name, address and corporate status of Permittee], (herein "Grantor") and [name of corporate trustee], [insert,

"incorporated in the State of _____" or "a national bank"], (herein "Trustee").

Whereas, the Oregon Department of Environmental Quality, "DEQ," an agency of the State of Oregon, has established certain regulations in OAR 340 Divisions 93 and 94 [95] applicable to the Grantor, requiring that an owner or operator of a solid waste land disposal site or groups of sites must demonstrate financial responsibility for all costs of properly closing the site and providing post-closure care according to the closure or post-closure plan and solid waste permit requirements, and for corrective action according to a remedial action option developed and selected pursuant to OAR 340 Division 40; and

Whereas, the Grantor has elected to establish a trust to assure all or part of such financial responsibility for the facilities identified herein; and

Whereas, the Grantor, acting through its duly authorized officers, has selected the Trustee to be the trustee under this agreement, and the Trustee is willing to act as trustee; and

Whereas Trustee is authorized to perform the duties of a trustee under the laws of the state of Oregon.

Now, therefore, the Grantor and the Trustee agree as follows:

Section 1. Definitions. As used in this Agreement:

(a) The term "Grantor" means the Permittee who enters into this Agreement and any successors or assigns of the Grantor.

(b) The term "Trustee" means the Trustee who enters into this Agreement and any successor Trustee.

Section 2. Identification of Facilities. This agreement pertains to the facilities identified on Schedule A which is attached hereto and by this reference incorporated herein [on Schedule A, for each facility list the DEQ Solid Waste Permit number, name, and address of the facility(ies) and the current closure, post-closure and/or corrective action cost estimates, or portions thereof, for which financial assurance is demonstrated by this Agreement].

Section 3. Establishment of Fund. The Grantor and the Trustee hereby establish a trust fund, hereinafter the "Fund," for the benefit of the State of Oregon acting by and through its Department of Environmental Quality. The Grantor and Trustee intend that no third party have access to the Fund except as herein provided.

The Fund is established initially as consisting of the property, which is acceptable to the Trustee, described in Schedule B which is attached hereto and by this reference incorporated herein. Such property and any other property subsequently transferred to the Trustee is referred to as the Fund, together with all earnings and profits thereon, less any payments or distributions made by the Trustee pursuant to this Agreement. The Fund shall be held by the Trustee, IN TRUST, as hereinafter provided. The Trustee shall not be responsible nor shall it undertake any responsibility for the amount or adequacy of, nor any duty to collect from the Grantor, any payments necessary to discharge any liabilities of the Grantor established by DEQ.

Section 4. Payment. The Trustee shall satisfy a claim by making payments from the Fund only upon receipt of the following document:

(a) Certification from the Grantor that the claim should be paid. The certification must be worded as follows:

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Certification of Valid Claim

The undersigned, as Grantor, hereby certifies that the claim arising from operating, closing, providing post-closure care or required corrective action at Grantor's solid waste land disposal site(s) should be paid in the amount of \$

[Signature]

Grantor

Grantor shall provide the DEQ Director a copy of the certification in paragraph (a) of this section concurrently with the submittal thereof to Trustee. Trustee shall not pay the claim until 30 days have elapsed since the date of the Certification of Valid Claim and the DEQ Director shall not have objected in writing to the payment within this period.

Section 5. Payments Comprising the Fund. Payments made to the Trustee for the Fund shall consist of cash or securities acceptable to the Trustee.

Section 6. Trustee Management. The Trustee shall invest and reinvest the principal and income, in accordance with general investment policies and guidelines which the Grantor may communicate in writing to the Trustee from time to time, subject, however, to the provisions of this section. In investing, reinvesting, exchanging, selling, and managing the Fund, the Trustee shall discharge his duties with respect to the trust fund solely in the interest of the beneficiary and with the care, skill, prudence, and diligence under the circumstance then prevailing which persons of prudence, acting in a like capacity and familiar with such matters, would use in the conduct of an enterprise of a like character and with like aims; except that:

(i) Securities or other obligations of the Grantor, or any other owner or operator of the facilities, or any of their affiliates as defined in the Investment Company Act of 1940, as amended, 15 U.S.C. 80a-2.(a), shall not be acquired or held unless they are securities or other obligations of the Federal or a State government;

(ii) The Trustee is authorized to invest the Fund in time or demand deposits of the Trustee, to the extent insured by an agency of the Federal or State government; and

(iii) The Trustee is authorized to hold cash awaiting investment or distribution uninvested for a reasonable time and without liability for the payment of interest thereon.

Section 7. Commingling and Investment. The Trustee is expressly authorized in its discretion:

(a) To transfer from time to time any or all of the assets of the Fund to any common commingled, or collective trust fund created by the Trustee in which the fund is eligible to participate, subject to all of the provisions thereof, to be commingled with the assets of other trusts participating therein; and

(b) To purchase shares in any investment company registered under the Investment Company Act of 1940, 15 U.S.C. 81a-1 et seq., including one which may be created, managed, underwritten, or to which investment advice is rendered or the shares of which are sold by the Trustee. The Trustee may vote such shares in its discretion.

Section 8. Express Powers of Trustee. Without in any way limiting the powers and discretions conferred upon the Trustee by the other provisions of this Agreement or by law, the Trustee is expressly authorized and empowered:

(a) To sell, exchange, convey, transfer, or otherwise dispose of any property held by it, by public or private sale. No person dealing with the Trustee shall be bound to see to the application of the purchase money or to inquire into the validity or expediency of any such sale or other disposition;

(b) To make, execute, acknowledge, and deliver any and all documents of transfer and conveyance and any and all other instruments that may be necessary or appropriate to carry out the powers herein granted;

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(c) To register any securities held in the Fund in its own name or in the name of a nominee and to hold any security in bearer form or in book entry, or to combine certificates representing such securities with certificates of the same issue held by the Trustee in other fiduciary capacities, or to deposit or arrange for the deposit of such securities in a qualified central depositary even though, when so deposited, such securities may be merged and held in bulk in the name of the nominee of such depositary with other securities deposited therein by another person, or to deposit or arrange for the deposit of such securities Government, or any agency or instrumentality thereof, with a Federal Reserve bank, but the books and records of the Trustee shall at all times show that all such securities are part of the Fund;

(d) To deposit any cash in the Fund in interest-bearing accounts maintained or savings certificates issued by the Trustee, in its separate corporate capacity, or in any other banking institution affiliated with the Trustee, to the extent insured by an agency of the Federal or State government; and

(e) To compromise or otherwise adjust all claims in favor of or against the Fund.

Section 9. Taxes and Expenses. All taxes of any kind that may be assessed or levied against or in respect of the Fund and all brokerage commissions incurred by the Fund shall be paid from the Fund. All other expenses incurred by the Trustee in connection with the administration of this Trust, including fees for legal services rendered to the Trustee, the compensation of the Trustee to the extent not paid directly by the Grantor, and all other proper charges and disbursements of the Trustee shall be paid from the Fund.

Section 10. Annual Valuations. The Trustee shall annually, at least 30 days prior to the anniversary date of establishment of the Fund, furnish to the Grantor and to the DEQ Director a statement confirming the value of the Trust. Any securities in the Fund shall be valued at market value as of no more than 60 days prior to the anniversary date of establishment of the Fund. The failure of the Grantor to object in writing to the Trustee within 90 days after the statement has been furnished to the Grantor and the DEQ Director shall constitute a conclusively binding assent by the Grantor barring the Grantor from asserting any claim or liability against the Trustee with respect to matters disclosed in the statement.

Section 11. Advice of Counsel. The Trustee may from time to time consult with counsel, who may be counsel to the Grantor with respect to any question arising as to the construction of this Agreement or any action to be taken hereunder. The Trustee shall be fully protected, to the extent permitted by law, in acting upon the advice of counsel.

Section 12. Trustee Compensation. The Trustee shall be entitled to reasonable compensation for its services as agreed upon in writing from time to time with the Grantor.

Section 13. Successor Trustee. The Trustee may resign or the Grantor may replace the Trustee, but such resignation or replacement shall not be effective until the Grantor has appointed a successor trustee and this successor accepts the appointment. The successor trustee shall have the same powers and duties as those conferred upon the Trustee hereunder. Upon the successor trustee's acceptance of the appointment, the Trustee shall assign, transfer, and pay over to the successor trustee the funds and properties then constituting the Fund. If for any reason the Grantor cannot or does not act in the event of the resignation of the Trustee, the Trustee may apply to a court of competent jurisdiction for the appointment of a successor trustee or for instructions. The successor trustee shall specify the date on which it assumes administration of the trust in a writing sent to the Grantor, the DEQ Director, and the present Trustee by certified mail 10 days before such change becomes effective. Any expenses incurred by the Trustee as a result of any of the acts contemplated by this section shall be paid as provided in Section 9.

Section 14. Instructions to the Trustee. All orders, requests, and instructions by the Grantor to the Trustee shall be in writing, signed by such persons as are designated in the attached Schedule C or such other designees as the Grantor may designate by amendments to Schedule C. The Trustee shall be fully protected in acting without inquiry in accordance with the Grantor's orders, requests, and instructions. All orders, requests, and instructions by the DEQ Director to the Trustee shall be in writing, signed by the DEQ Director or his/her designees, and the Trustee shall act and shall be fully protected in acting in accordance with such orders, requests, and instructions. The Trustee shall have the right to assume, in the absence of written notice to the contrary, that no event constituting a change or a termination of the authority of any person to act on behalf of the Grantor or DEQ hereunder has occurred. The Trustee shall have no duty to act in the absence of such orders, requests, and instructions from the Grantor and/or DEQ, except as provided for herein.

Section 15. Notice of Nonpayment. If a payment is made under Section 4 of this trust, the Trustee shall notify the Grantor of such payment and the amount(s) thereof within five (5) working days. The Grantor shall, on or before the anniversary date of the establishment of the Fund following such notice, either make payments to the Trustee in amounts sufficient to cause the trust to return to its value immediately prior to the payment of claims under Section 4, or shall provide written proof to the Trustee that other financial assurance for liability coverage has been obtained equalling the amount necessary to return the trust to its value prior to the payment of claims. If the Grantor does not either make payments to the Trustee with such proof, the Trustee shall within 10 working days after the anniversary date of the establishment of the Fund provide a written notice of nonpayment to the DEQ Director.

Section 16. Amendment of Agreement. This Agreement may be amended by an instrument in writing executed by the Grantor, the Trustee, and the DEQ Director, or by the Trustee and the DEQ Director if the Grantor ceases to exist.

Section 17. Irrevocability and Termination. Subject to the right of the parties to amend this Agreement as provided in Section 16, this Trust shall be irrevocable and shall continue until terminated at the written agreement of the Grantor, the Trustee, and the DEQ Director, or by the Trustee and the DEQ Director, if the Grantor ceases to exist. Upon termination of the Trust, all remaining trust property, less final trust administration expenses, shall be delivered to the Grantor.

The DEQ Director will agree to termination of the Trust when the permittee substitutes alternate financial assurance as specified in this section.

Section 18. Immunity and Indemnification. The Trustee shall not incur personal liability of any nature in connection with any act or omission, made in good faith, in the administration of this Trust, or in carrying out any directions by the Grantor or the DEQ Director issued in accordance with this Agreement. The Trustee shall be indemnified and saved harmless by the Grantor or from the Trust Fund, or both, from and against any personal liability to which the Trustee may be subjected by reason of any act or conduct in its official capacity, including all expenses reasonably incurred in its defense in the event the Grantor fails to provide such defense.

Section 19. Choice of Law. This Agreement shall be administered, construed, and enforced according to the laws of the State of Oregon.

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Know All Persons By These Presents, That we, the Principal and Surety(ies) hereto are firmly bound to the State of Oregon Department of Environmental Quality (hereinafter called DEQ), in the above penal sum for the payment of which we bind ourselves, our heirs,

Section 20. Interpretation. As used in this Agreement, words in the singular include the plural and words in the plural include the singular. The descriptive headings for each section of this Agreement shall not affect the interpretation or the legal efficacy of this Agreement.

In Witness Whereof the parties have caused this Agreement to be executed by their respective officers duly authorized and attested as of the date first above written.

[Signature of Grantor]

[Signature of Trustee]

II. Payment Bond

(A payment bond, as specified in OAR 340-94-145(5)(b) and OAR 340-95-095(5)(b) must be worded as follows, except that instructions in brackets are to be replaced with the relevant information and the brackets deleted:)

Date bond executed:

Effective date:

Principal: [Permittee's name, address and corporate status]

State of incorporation:

Surety(ies): [name(s) and business address(es)]

DEO Solid Waste Permit number, name, address, and current cost estimate(s) for closure and/or postclosure care for each facility guaranteed by this bond according to the closure or post-closure plan and solid waste permit requirements [indicate closure and post-closure amounts separately]:

Total penal sum of bond (must equal sum of closure and post closure amounts, if both are covered by

Surety's bond number:

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executors, administrators, successors, and assigns jointly and severally; provided that, where the Surety(ies) are corporations acting as co-sureties, we, the Sureties, bind ourselves in such sum "jointly and severally" only for the purpose of allowing a joint action or actions against any or all of us, and for all other purposes each Surety binds itself, jointly and severally with the Principal, for the payment of such sum only as is set forth opposite the name of such Surety, but if no limit of liability is indicated, the limit of liability shall be the full amount of the penal sum.

Whereas said Principal is required, under Oregon Revised Statutes Chapter 459, to have a permit in order to own or operate each solid waste land disposal site identified above; and

Whereas said Principal is required to provide financial assurance for all costs of properly closing each site and providing post-closure care in accordance with the closure or post-closure plan and solid waste permit requirements as a condition of the required permit; and

Whereas said Principal shall establish a standby trust fund as is required when a surety bond is used to provide such financial assurance;

Now, Therefore, the conditions of this obligation are such that if the Principal shall faithfully, before the beginning of the final closure (the beginning of the final closure occurs when the facility or a land disposal site unit at the facility stops receiving waste) of each facility identified above, fund the standby trust fund in the amounts identified above for the facility,

Or, if the Principal shall fund the standby trust fund in such amount(s) within 15 days after a final order to begin closure is issued by the DEQ Director or by a court of competent jurisdiction,

Or, if the Principal shall obtain and provide alternate financial assurance as specified by Divisions 94 and 95 of Oregon Administrative Rules Chapter 340, within 90 days after the date notice of cancellation is received by both the Principal and the DEQ Director from the Surety(ies), then this obligation shall be null and void, otherwise it is to remain in full force and effect.

The Surety(ies) shall become liable on this bond obligation only when the Principal has failed to fulfill the conditions described above. Upon notification by the DEQ Director that the Principal has failed to perform as guaranteed by this bond, the Surety(ies) shall place funds in the amount guaranteed for the facility(ies) into the standby trust fund as directed by the DEQ Director.

The liability of the Surety(ies) shall not be discharged by any payment or succession of payments hereunder, unless and until such payment or payments shall amount in the aggregate to the penal sum of the bond, but in no event shall the obligation of the Surety(ies) hereunder exceed the amount of said penal sum.

The Surety(ies) may cancel the bond by sending notice of cancellation by certified mail to the Principal and to the DEQ Director, provided, however, that cancellation shall not occur during the 120 days beginning on the date of receipt of the notice of cancellation by both the Principal and the DEQ Director, as evidenced by the return receipts.

The Principal may terminate this bond by sending written notice to the Surety(ies), provided, however, that no such notice shall become effective until the Surety(ies) receive(s) written authorization for termination of the bond by the DEQ Director.

Principal and Surety(ies) hereby agree to adjust the penal sum of the bond yearly so that it guarantees a new closure and/or post-closure amount to correspond to the annual adjustment to the cost estimates required by OAR 340-94-140(6)(d) [OAR 340-95-090(6)(d)], provided that the penal sum does not increase by more than 20 percent in any one year.

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 In Witness Whereof, The Principal and Surety(ies) have executed this Payment Bond on the date set forth above.

The persons whose signatures appear below hereby certify that they are authorized to execute this surety bond on behalf of the Principal and Surety(ies)

Principal

[Signature(s)]

[Name(s)]

[Title(s)]

Corporate Surety(ies)

[Name and address]

State of incorporation:

Liability limit: \$

[Signature(s)]

[Name(s) and title(s)]

[For every co-surety, provide signature(s) and other information in the same manner as for Surety above.]

Bond premium: \$ ===== [Add Notary Block] =====

III. Performance Bond

(A performance bond, as specified in OAR 340-94-145(5)(c) or OAR 340-95-095(5)(c), must be worded as follows, except that instructions in brackets are to be replaced with the relevant information and the brackets deleted:)

Date bond executed:

Effective date:

Principal: [Permittee's name, address and corporate status]

State of incorporation:

Surety(ies): [name(s) and business address(es)]

DEQ Solid Waste Permit number, name, address, and current cost estimate(s) for closure, post-closure and/or corrective action for each facility guaranteed by this bond according to the closure or post-closure plan, solid waste permit requirements, and for corrective action according to the remedial action option developed and selected pursuant to OAR 340 Division 40 [indicate closure, post-closure and corrective action amounts separately]:

Total penal sum of bond: \$

Surety's bond number:

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Know All Persons By These Presents, That we, the Principal and Surety(ies) hereto are firmly bound to the State of Oregon Department of Environmental Quality (hereinafter called DEQ), in the above penal sum for the payment of which we bind ourselves, our heirs, executors, administrators, successors, and assigns jointly and severally; provided that, where the Surety(ies) are corporations acting as co-sureties, we, the Sureties, bind ourselves in such sum "jointly and severally" only for the purpose of allowing a joint action or actions against any or all of us, and for all other purposes each Surety binds itself, jointly and severally with the Principal, for the payment of such sum only as is set forth opposite the name of such Surety, but if no limit of liability is indicated, the limit of liability shall be the full amount of the penal sum.

Whereas said Principal is required, under Oregon Revised Statutes Chapter 459 to have a solid waste permit in order to own or operate each solid waste land disposal site identified above; and

Whereas said Principal is required to provide financial assurance for all costs of properly closing each site and providing post-closure care in accordance with the closure or post-closure plan, solid waste permit requirements, and for corrective action according to a remedial action option developed and selected pursuant to OAR 340 Division 40; and

Whereas said Principal shall establish a standby trust fund as is required when a surety bond is used to provide such financial assurance;

Now, Therefore, the conditions of this obligation are such that if the Principal shall faithfully perform closure, whenever required to do so, of each facility for which this bond guarantees closure, in accordance with the closure plan and other requirements of the permit as such plan and permit may be amended, pursuant to all applicable laws, statutes, rules, and regulations, as such laws, statutes, rules, and regulations may be amended,

And, if the Principal shall faithfully perform post-closure care at each facility for which this bond guarantees post-closure care, in accordance with the post-closure plan and other requirements of the permit, as such plan and permit may be amended, pursuant to all applicable laws, statutes, rules, and regulations, as such laws, statutes, rules, and regulations may be amended,

And, if the Principal shall faithfully carry out corrective action according to a remedial action option developed and selected pursuant to OAR 340 Division 40 for each site for which this bond guarantees corrective action according to the remedial action option and all other applicable laws, statutes, rules, and regulations, as such laws, statutes, rules, and regulations may be amended,

Or, if the Principal shall obtain and provide alternate financial assurance as specified in OAR 340-94-140 and -145 [OAR 340-95-090 and -095], within 90 days after the date notice of cancellation is received by both the Principal and the DEQ Director from the Surety(ies), then this obligation shall be null and void, otherwise it is to remain in full force and effect.

The Surety(ies) shall become liable on this bond obligation only when the Principal has failed to fulfill the conditions described above.

Upon notification by the DEQ Director that the Principal has been found in violation of the closure requirements of OAR 340 Division 94 [Division 95], for a site for which this bond guarantees performance of closure, the Surety(ies) shall either perform closure in accordance with the closure plan and other solid waste permit requirements or place the closure amount guaranteed for the site into the standby trust fund as directed by the DEQ Director.

Upon notification by the DEQ Director that the Principal has been found in violation of the postclosure requirements of OAR 340 Division 94 [Division 95] for a site for which this bond guarantees performance of post-closure care, the Surety(ies) shall either perform post-closure care in accordance with the post-closure plan and other solid waste permit requirements or place the post-closure amount guaranteed for the site into the standby trust fund as directed by the DEQ Director.

Upon notification by the DEQ Director that the Principal has been found in violation of corrective action as specified in the remedial action option developed and selected pursuant to OAR 340 Divisions 94 [95] and 40 for a site for which this bond guarantees performance of corrective action, the Surety(ies) shall either perform corrective action in accordance with the remedial action option or place the corrective action amount guaranteed for the site into the standby trust fund as directed by the DEQ Director.

Upon notification by an DEQ Director that the Principal has failed to obtain and provide alternate financial assurance as specified in OAR 340 Division 94 [95], during the 90 days following receipt by both the Principal and the DEQ Director of a notice of cancellation of the bond, the Surety(ies) shall place funds in the amount guaranteed for the facility(ies) into the standby trust fund as directed by the DEQ Director.

The surety(ies) hereby waive(s) notification of amendments to closure and post-closure plans, permits, remedial action option reports, applicable laws, statutes, rules, and regulations and agrees that no such amendment shall in any way alleviate its (their) obligation on this bond.

The liability of the Surety(ies) shall not be discharged by any payment or succession of payments hereunder, unless and until such payment or payments shall amount in the aggregate to the penal sum of the bond, but in no event shall the obligation of the Surety(ies) hereunder exceed the amount of said penal sum.

The Surety(ies) may cancel the bond by sending notice of cancellation by certified mail to the owner or operator and to the DEQ Director, provided, however, that cancellation shall not occur during the 120 days beginning on the date of receipt of the notice of cancellation by both the Principal and the DEQ Director as evidenced by the return receipts. If Principal has not provided alternate financial assurance within 90 days of the notice of cancellation, Surety(ies) shall pay the amount of the penal sum into the standby trust account.

The principal may terminate this bond by sending written notice to the Surety(ies), provided, however, that no such notice shall become effective until the Surety(ies) receive(s) written authorization for termination of the bond by the DEQ Director.

Principal and Surety(ies) hereby agree to adjust the penal sum of the bond yearly so that it guarantees a new closure, post-closure and/or corrective action amount to correspond to the annual adjustment to the cost estimates required by OAR 340-94-140(6)(d) [OAR 340-95-090(6)(d)], provided that the penal sum does not increase by more than 20 percent in any one year.

In Witness Whereof, The Principal and Surety(ies) have executed this Performance Bond and have affixed their seals on the date set forth above.

The persons whose signatures appear below hereby certify that they are authorized to execute this surety bond on behalf of the Principal and Surety(ies)

 Principal

 [Signature(s)]

 [Name(s)]

 [Title(s)]

 Corporate Surety(ies)

 [Name and address]

 State of incorporation:

 Liability limit: \$

 [Signature(s)]

 [Name(s) and title(s)]

 [For every co-surety, provide signature(s) and other information in the same manner as for Surety above.]

Bond premium: \$ ====== [Add Notary Block] =====

IV. Irrevocable Standby Letter of Credit

(An irrevocable letter of credit, as specified in OAR 340-94-145(5)(d) and OAR 340-95-095(5)(d), must be worded as follows, except that instructions in brackets are to be replaced with the relevant information and the brackets deleted:)

Director

Oregon Department of Environmental Quality

Dear Director:

We hereby establish our Irrevocable Standby Letter of Credit No. ____ in your favor, at the request and for the account of [permittee's name and address] up to the aggregate amount of [in words] U.S. dollars \$ ____, available upon presentation by you of

(1) your sight draft, bearing reference to this letter of credit No. ____, and

(2) your signed statement reading as follows: "I certify that the amount of the draft is payable pursuant to regulations issued under authority of Oregon Administrative Rules 340 Divisions 93, 94 [95] and 40, as amended."

This letter of credit is effective as of [date] and shall expire on [date at least 1 year later], but such expiration date shall be automatically extended for a period of [at least 1 year] on [date] and on each successive expiration date, unless, at least 120 days before the current expiration date, we notify both you and [permittee's name] by certified mail that we have decided not to extend this letter of credit beyond the current expiration date. In the event you are so notified, any unused portion of the credit shall be available upon presentation of your sight draft for 90 days after the date of receipt by both you and [permittee's name], as shown on the signed return receipts.

Whenever this letter of credit is drawn on under and in compliance with the terms of this credit, we shall duly honor such draft upon presentation to us, and we shall deposit the amount of the draft directly into the standby trust fund of [permittee's name] in accordance with your instructions.

In the event that this letter of credit is issued with another mechanism for financial assurance coverage, this letter of credit shall be considered primary [or "excess" if applicable] coverage.

[Signature(s) and title(s) of official(s) of issuing institution] [Date]

This credit is subject to [insert "the most recent edition of the Uniform Customs and Practice for Documentary Credits, published by the International Chamber of Commerce," or "the Uniform Commercial Code"].

V. Insurance Policy

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(A certificate of insurance, as specified in OAR 340-94-145(5)(e) or OAR 340-95-095(5)(e) must be worded as follows, except that instructions in brackets are to be replaced with the relevant information and the brackets deleted:)

Certificate of Insurance for Closure or Post-Closure Care

Name and Address of Insurer

(herein called the "Insurer"):

Name and Address of Permittee

(herein called the "Insured"):

Facilities Covered: [List for each facility: The DEQ Solid Waste Permit number, name, address, and the amount of insurance for closure and/or the amount for post-closure care (these amounts for all facilities covered must total the face amount shown below).]

- Face Amount:
- Policy Number:
- Effective Date:

49 The Insurer hereby certifies that it has issued to the Insured the policy of insurance identified 50 above, naming as beneficiary the State of Oregon by and through its Department of Environmental 51 Quality, to provide financial assurance for [insert "closure" or "closure and post-closure care" or "post-52 closure care"] for the facilities identified above. Proceeds from this policy of insurance shall be used only to finance closure and/or post-closure activities that are in accordance with the closure or postclosure plan or otherwise justified. The Insurer further warrants that such policy conforms in all respects with the requirements of OAR 34-94-140 and -145 [OAR 340-95-090 and -095] as applicable and as such administrative rule was constituted on the date shown immediately below. It is agreed that any provision of the policy inconsistent with such regulations is hereby amended to eliminate such inconsistency.

The Insurer certifies that it is licensed to transact the business of insurance or is eligible as an excess or surplus lines insurer in the state of Oregon.

Whenever requested by the Director of the Oregon Department of Environmental Quality, the Insurer agrees to furnish to the DEQ Director a duplicate original of the policy listed above, including all endorsements thereon.

[Authorized signature for Insurer]

[Name of person signing]

[Title of person signing] = = = = =

[Add Notary Block]

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[Date]

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VI. Corporate Financial Test

(A corporate financial guarantee, as specified in OAR 340-94-145(5)(f) or OAR 340-95-095(5)(f) must be worded as follows, except that instructions in brackets are to be replaced with the relevant information and the brackets deleted:)

Letter From Chief Financial Officer and Corporate Guarantee

[Address to Director of the Oregon Department of Environmental Quality.]

I am the chief financial officer of [name and address of Permittee]. This letter is in support of this firm's use of the financial test in OAR 340-94-145(5)(f) [OAR 340-95-095(5)(f)] to demonstrate financial assurance for closure or post-closure care or for corrective action pursuant to OAR 340 Division 94 [Division 95]. The data used in meeting the financial test have been derived from the independently audited year-end financial statements for [Permittee] for the latest fiscal year.

[Wherever appropriate provide the required information on the permitted facilities and associated costs. For each facility include its DEQ Solid Waste Permit number, name, address, and current closure, post-closure and/or corrective action cost estimates. Identify each cost estimate as to whether it is for closure or post-closure care or for required corrective action.]

1. This firm is the owner or operator of the following facilities for which financial assurance for closure or post-closure care is demonstrated through the financial test specified in OAR 340-94-145(5)(f), paragraph (A) or (B) [OAR 340-95-095(5)(f), paragraph (A) or (B)]. The current closure and/or post-closure and/or corrective action cost estimates covered by the test for each facility are identified on Schedule A which is attached hereto and by this reference incorporated herein [on Schedule A, for each facility list the DEQ Solid Waste Permit number, name, and address of the facility(ies) and their current closure, post-closure and/or corrective action cost estimates, or portions thereof, for which financial assurance is demonstrated by this test.]

2. This letter constitutes the guarantee specified in OAR 340-94-145(5)(f)(A) or (B) [OAR 340-95-095(5)(f)(A) or (B)]. By this letter the firm guarantees the completion of the closure, post-closure or corrective action activities according to the closure or post-closure plan, solid waste permit requirements and/or selected remedy described in the corrective action report, in facilities owned or operated by Permittee and its subsidiaries. Permittee meets the financial criteria set forth in the [Alternative] Financial Test.

3. [Permittee] hereby establishes a standby trust fund, hereafter the "Fund," for the benefit of the State of Oregon acting by and through its Department of Environmental Quality (DEQ). This letter guarantees that the Fund will be fully funded within 30 days after either service of a Final Order assessing a civil penalty from the Department for failure to adequately perform closure or post-closure activities according to the closure or post-closure plan and permit, or the selected remedy described in the corrective action report, as applicable, or service of a written notice from the Department that the permittee no longer meets the criteria of the financial test.

4. As chief financial officer I possess the requisite authority to bind this firm to the guarantee and acknowledge that this corporate guarantee is an ongoing, continuing and binding obligation of the firm. I will notify DEQ within 15 days any time that the permittee no longer meets the criteria of the financial test or is named as debtor in a voluntary or involuntary proceeding under Title 11 (Bankruptcy), U. S. Code.

5. The fiscal year of this firm ends on [month, day]. Attached are (a) a copy of the independent certified public accountant (CPA)'s report on examination of the permittee's financial statements for the latest completed fiscal year and (b) a report from permittee's independent CPA stating that the CPA has compared the data which this letter specifies as having been derived from the independently audited year-end financial statements for the latest fiscal year with the amounts in such financial statement and that no matters came to the CPA's attention which caused the CPA to believe that the specified data should be adjusted.

[If Permittee is meeting the criteria for the Financial Test, complete items 1. through 10. If Permittee is meeting the criteria for the Alternative Financial Test, complete items 1. through 24.]

1. Sum of current cost estimates for closure, post-closure care or corrective action covered by this test [total of all cost elements], pursuant to Schedule A. \$

2. Total liabilities [if any portion of the closure, post-closure care or corrective action cost estimates is included in total liabilities, the amount of that portion may be deducted from this line and added to lines 3 and 9] \$____

- 3. Tangible net worth \$____
- 4. Current assets \$____

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 5. Current liabilities \$____

6. Net working capital [line 5 minus line 4] \$_____

7. Net income \$____

8. The sum of depreciation plus depletion plus amortization \$_____

9. Total assets. \$____

	10 1			
	10. Total as	10. Total assets in U.S. \$		
3	11. Retaine	11. Retained earnings. \$		
4		11, ποιμμού σαιμμέζο, ψ		
5	12. Ear	rnings before interest and taxes. \$		
6				
7	13. Interest	. \$		
8	14 Not cold			
9 10	14. INEL Sale	ales. \$		
10	15. Federal	ral income tax credits (fuel tax, investment in regulated investment		
12	companies).	· · · · · -		
13	-	······		
14	16. Federal	Federal income tax. \$		
15				
16	17. Recurri	ng book income not subject to income tax. \$		
17 18	19 Internal	ly generated cash. (line 8 plus line 12 plus line 15 plus line 17 minus line	13	
10	minus line		15	
20	iiiiido iiio i	ιο. φ		
21	19. Liquid	19. Liquid Asset Ratio. [line 6 divided by line 9]		
22	-	The reference with the constraint of the slime		
23	20. Earned	Surplus Ratio. [line 11 divided by line 9]		
24				
25 21. Productivity. [line 12 divided by line 9]				
26 7	12 Reputer Partia Iline 2 divided by line 21			
∠8	22. Equity	22. Equity Ratio. [line 3 divided by line 2]		
29	23, Efficien	23. Efficiency. [line 14 divided by line 9]		
30				
31		24. Altman's Z. sum of [0.717 times line 19] plus [0.847 times line 20] plus [3.07 times		
32	line 21] plus [4.2 times line 22] plus [0.998 times line 23].			
33				
35	34 FINANCIAL TEST 35			
36	To meet the criteria of this financial test a Permittee must be able to answer yes to at least two		ast two of	
37		the three parts of A. and to all parts of B., C. and D.		
38	-	• · ·		
39	A.i.	Is line 2 divided by line 3 less than 3.0? (Yes/No)		
40	A.ii.	Is [line 7 plus line 8] divided by line 2 greater than 0.1? (Yes/No)		
41	A.iii.	Is line 4 divided by line 5 greater than 1.5? (Yes/No)		
42	B.i.	Is line 6 divided by line 1 at least 4.0? (Yes/No)		
43 44	B.ii. C.	Is line 3 divided by line 1 at least 6.0? (Yes/No) Is line 3 at least \$10 million? (Yes/No)		
45	С. D.	Is line 10 divided by line 1 at least 6.0? (Yes/No)		
46	27			
47	ALTERNATIVE FINANCIAL TEST			
48				
49		To meet the criteria of this alternative financial test a Permittee must be able to answer yes to		
50	part A. and to two of the three parts of B.			
51 52	٨	Is line 3 at least \$10 million? (Vac/Na)		
72	A. B.i.	Is line 3 at least \$10 million? (Yes/No) Is line 12 divided by line 13 at least 2.0? (Yes/No)		
54	B.ii.	Is line 12 divided by line 15 at least 2.0? (Yes/No) Is line 18 divided by line 2 at least 0.2? (Yes/No)		

B.iii. Is line 24 at least 2.9? (Yes/No)

I hereby certify that all representations contained in this letter are, to the best of my knowledge, true, complete and accurate. This letter constitutes a binding and continuing obligation of [Permittee] and is enforceable in accordance with its terms.

[Signature] _____ [Name] _____ [Title] _____ [Date] _____ [Date] _____ [Add Notary Block] = = = =

VII. Standby Trust Agreement

(A standby trust agreement, as specified in OAR 340-94-145(5)(b), (c), (d), and (f) and OAR 340-95-095(5)(b), (c), (d) and (f) must be worded as follows, except that instructions in brackets are to be replaced with the relevant information and the brackets deleted:)

Trust Agreement, the "Agreement," entered into as of [date] by and between Permittee [name, address and corporate status of Permittee], (herein "Grantor") and [name of corporate trustee], [insert, "incorporated in the State of _____" or "a national bank"], the "trustee."

Whereas the Oregon Department of Environmental Quality (herein "DEQ"), an agency of the State of Oregon has established certain regulations applicable to the Grantor, requiring that an owner or operator of a solid waste land disposal site or group of sites must demonstrate financial responsibility for all costs of properly closing the site and providing post-closure maintenance according to the closure or post-closure plan, solid waste permit requirements and for corrective action according to a remedial action option developed and selected pursuant to OAR 340 Division 40; and

Whereas, the Grantor has elected to establish a standby trust into which the proceeds from a [insert "payment bond," "performance bond," "letter of credit" or "corporate guarantee"], described in Schedule B attached hereto and by this reference incorporated herein, may be deposited to assure all or part of such financial responsibility for the facilities identified herein; and

Whereas, the Grantor, acting through its duly authorized officers, has selected the Trustee to be the trustee under this agreement, and the Trustee is willing to act as trustee; and

Whereas Trustee is authorized to perform the duties of a trustee under the laws of the state of Oregon.

Now, therefore, the Grantor and the Trustee agree as follows:

Section 1. Definitions. As used in this Agreement:

(a) The term "Grantor" means the Permittee who enters into this Agreement and any successors or assigns of the Grantor.

}

(b) The term "Trustee" means the Trustee who enters into this Agreement and any successor Trustee.

Section 2. Identification of Facilities. This agreement pertains to the facilities identified on Schedule A which is attached hereto and by this reference incorporated herein, [on Schedule A, for each facility list the DEQ Solid Waste Permit number, name, and address of the facility(ies) and the current closure, post-closure and/or corrective action cost estimates, or portions thereof, for which financial assurance is demonstrated by this Agreement].

Section 3. Establishment of Fund. The Grantor and the Trustee hereby establish a standby trust fund, hereafter the "Fund," for the benefit of the State of Oregon acting by and through its Department of Environmental Quality (DEQ). The Grantor and Trustee intend that no third party have access to the Fund except as herein provided.

The Fund is established initially as consisting of the proceeds of the [insert "payment bond," "performance bond," "letter of credit" or "corporate guarantee"] deposited into the Fund. Such proceeds and any other property subsequently transferred to the Trustee is referred to as the Fund, together with all earnings and profits thereon, less any payments or distributions made by the Trustee pursuant to this Agreement. The Fund shall be held by the Trustee, IN TRUST, as hereinafter provided. The Trustee shall not be responsible nor shall it undertake any responsibility for the amount or adequacy of, nor any duty to collect from the Grantor, any payments necessary to discharge any liabilities of the Grantor established by DEQ.

Section 4. Payment. The Trustee shall satisfy a claim by drawing on the property described in Schedule B, and by making payments from the Fund only upon receipt of the following document:

(a) Certification from the Grantor that the claim should be paid. The certification must be worded as follows:

Certification of Valid Claim

The undersigned, as Grantor, hereby certifies that the claim arising from operating, closing, providing post-closure care or required corrective action at Grantor's solid waste land disposal site(s) should be paid in the amount of \$ _____.

[Signature]

Grantor

Grantor shall provide the DEQ Director a copy of the certification in paragraph (a) of this section concurrently with the submittal thereof to Trustee. Trustee shall not pay the claim until 30 days have elapsed since the date of the Certification of Valid Claim and the DEQ Director shall not have objected in writing to the payment within this period.

Section 5. Payments Comprising the Fund. Payments made to the Trustee for the Fund shall consist of the proceeds from the [insert "payment bond," "performance bond," "letter of credit" or "corporate guarantee"] drawn upon by the Trustee in accordance with the requirements of OAR 340-94-145(5) [OAR 340-95-095(5)].

Section 6. Trustee Management. The Trustee shall invest and reinvest the principal and income, in accordance with general investment policies and guidelines which the Grantor may communicate in writing to the Trustee from time to time, subject, however, to the provisions of this Section. In investing, reinvesting, exchanging, selling, and managing the Fund, the Trustee shall discharge his duties

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with respect to the trust fund solely in the interest of the beneficiary and with the care, skill, prudence, and diligence under the circumstances then prevailing which persons of prudence, acting in a like capacity and familiar with such matters, would use in the conduct of an enterprise of a like character and with like aims; except that:

(i) Securities or other obligations of the Grantor, or any other owner or operator of the sites, or any of their affiliates as defined in the Investment Company Act of 1940, as amended, 15 U.S.C. 80a-2(a), shall not be acquired or held, unless they are securities or other obligations of the Federal or a State government;

(ii) The Trustee is authorized to invest the Fund in time or demand deposits of the Trustee, to the extent insured by an agency of the Federal or a State government; and

(iii) The Trustee is authorized to hold cash awaiting investment or distribution uninvested for a reasonable time and without liability for the payment of interest thereon.

Section 7. Commingling and Investment. The Trustee is expressly authorized in its discretion:

(a) To transfer from time to time any or all of the assets of the Fund to any common, commingled, or collective trust fund created by the Trustee in which the Fund is eligible to participate, subject to all of the provisions thereof, to be commingled with the assets of other trusts participating therein; and

(b) To purchase shares in any investment company registered under the Investment Company Act of 1940, 15 U.S.C. 80a-1 et seq., including one which may be created, managed, underwritten, or to which investment advice is rendered or the shares of which are sold by the Trustee. The Trustee may vote such shares in its discretion.

Section 8. Express Powers of Trustee. Without in any way limiting the powers and discretions conferred upon the Trustee by the other provisions of this Agreement or by law, the Trustee is expressly authorized and empowered:

(a) To sell, exchange, convey, transfer, or otherwise dispose of any property held by it, by public or private sale. No person dealing with the Trustee shall be bound to see to the application of the purchase money or to inquire into the validity or expediency of any such sale or other disposition;

(b) To make, execute, acknowledge, and deliver any and all documents of transfer and conveyance and any and all other instruments that may be necessary or appropriate to carry out the powers herein granted;

(c) To register any securities held in the Fund in its own name or in the name of a nominee and to hold any security in bearer form or in book entry, or to combine certificates representing such securities with certificates of the same issue held by the Trustee in other fiduciary capacities, or to deposit or arrange for the deposit of such securities in a qualified central depositary even though, when so deposited, such securities may be merged and held in bulk in the name of the nominee of such deposit or arrange for the deposited therein by another person, or to deposit or arrange for the deposit of such securities Government, or any agency or instrumentality thereof, with a Federal Reserve Bank, but the books and records of the Trustee shall at all times show that all such securities are part of the Fund;

(d) To deposit any cash in the Fund in interest-bearing accounts maintained or savings certificates issued by the Trustee, in its separate corporate capacity, or in any other banking institution affiliated with the Trustee, to the extent insured by an agency of the Federal or State government; and

 (e) To compromise or otherwise adjust all claims in favor of or against the Fund.

Section 9. Taxes and Expenses. All taxes of any kind that may be assessed or levied against or in respect of the Fund and all brokerage commissions incurred by the Fund shall be paid from the Fund. All other expenses incurred by the Trustee in connection with the administration of this Trust, including fees for legal services rendered to the Trustee, the compensation of the Trustee to the extent not paid directly by the Grantor, and all other proper charges and disbursements to the Trustee shall be paid from the Fund.

Section 10. Advice of Counsel. The Trustee may from time to time consult with counsel, who may be counsel to the Grantor, with respect to any question arising as to the construction of this Agreement or any action to be taken hereunder. The Trustee shall be fully protected, to the extent permitted by law, in acting upon the advice of counsel.

Section 11. Trustee Compensation. The Trustee shall be entitled to reasonable compensation for its services as agreed upon in writing from time to time with the Grantor.

Section 12. Successor Trustee. The Trustee may resign or the Grantor may replace the Trustee, but such resignation or replacement shall not be effective until the Grantor has appointed a successor trustee and this successor accepts the appointment. The successor trustee shall have the same powers and duties as those conferred upon the Trustee hereunder. Upon the successor trustee's acceptance of the appointment; the Trustee shall assign, transfer, and pay over to the successor trustee the funds and properties then constituting the Fund. If for any reason the Grantor cannot or does not act in the event of the resignation of the Trustee, the Trustee may apply to a court of competent jurisdiction for the appointment of a successor trustee or for instructions. The successor trustee shall specify the date on which it assumes administration of the trust in a writing sent to the Grantor, the DEQ Director and the present Trustee by certified mail 10 days before such change becomes effective. Any expenses incurred by the Trustee as a result of any of the acts contemplated by this Section shall be paid as provided in Section 9.

Section 13. Instructions to the Trustee. All orders, requests, certifications of valid claims, and instructions to the Trustee shall be in writing, signed by such persons as are designated in the attached Schedule C or such other designees as the Grantor may designate by amendments to Schedule C. The Trustee shall be fully protected in acting without inquiry in accordance with the Grantor's orders, requests, and instructions. The Trustee shall have the right to assume, in the absence of written notice to the contrary, that no event constituting a change or a termination of the authority of any person to act on behalf of the Grantor or the DEQ Director hereunder has occurred. The Trustee shall have no duty to act in the absence of such orders, requests, and instructions from the Grantor and/or DEQ, except as provided for herein.

Section 14. Amendment of Agreement. This Agreement may be amended by an instrument in writing executed by the Grantor, the Trustee, and the DEQ Director, or by the Trustee and the DEQ Director if the Grantor ceases to exist.

Section 15. Irrevocability and Termination. Subject to the right of the parties to amend this Agreement as provided in Section 14, this Trust shall be irrevocable and shall continue until terminated at the written agreement of the Grantor, the Trustee, and the DEQ Director, or by the Trustee and the DEQ Director, if the Grantor ceases to exist. Upon termination of the Trust, all remaining trust property, less final trust administration expenses, shall be paid to the Grantor.

The Director will agree to termination of the Trust when the permittee substitutes alternative financial assurance as specified in this section.

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Section 16. Immunity and indemnification. The Trustee shall not incur personal liability of any

nature in connection with any act or omission, made in good faith, in the administration of this Trust, or in carrying out any directions by the Grantor and the DEQ Director issued in accordance with this Agreement. The Trustee shall be indemnified and saved harmless by the Grantor or from the Trust Fund, or both, from and against any personal liability to which the Trustee may be subjected by reason of any act or conduct in its official capacity, including all expenses reasonable incurred in its defense in the event the Grantor fails to provide such defense.

Section 17. Choice of Law. This Agreement shall be administered, construed, and enforced according to the laws of the State of Oregon.

Section 18. Interpretation. As used in this Agreement, words in the singular include the plural and words in the plural include the singular. The descriptive headings for each Section of this Agreement shall not affect the interpretation of the legal efficacy of this Agreement.

In Witness Whereof the parties have caused this Agreement to be executed by their respective officers duly authorized and attested as of the date first above written.

[Signature of Grantor]

[Title]

Attest:

[Title]

[Signature of Trustee]

Attest:

[Title]

(This form of notary block to be attached wherever notarization is needed:)

State	of
Sidic	UI.

10/28/94

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40	State of OREGON)	On this <u>day of</u> , 199, personally	
41)ss.	appeared before me who	
42	County of)	stated that (s)he is the of	
43			, a corporation, and that the instrument	ıt
44			was signed in behalf of the said corporation by	
45			authority of its board of directors and acknowledged	
46			said instrument to be its voluntary act and deed.	
47			Before me:	_
48			Notary public for Oregon.	
49			My commission expires	
50				
51				
52				

NOTICE OF PROPOSED RULEMAKING HEARING

(Rulemaking Statements and Statement of Fiscal Impact must accompany this form.)

 Department of Environmental Quality
 Waste Management and Cleanup Division

 OAR Chapter
 340

DATE:	TIME:	LOCATION:
October 4, 1	994 10 a.m.	Conference Room Oregon Department of Transportation 63055 N Highway 97 Bend, Oregon
October 5, 1	994 2 p.m.	Conference Room 3A Department of Environmental Quality 811 S.W. 6th Portland, Oregon
October 5, 1	994 10 a.m.	Northern Wasco PUD 401 Court Street The Dalles, Oregon
October 6, 1	994 6:30 p.m.	Jackson County Courthouse Auditorium 10 S. Oakdale Medford, Oregon
October 6, 1	994 7 p.m.	DEQ Offices 1102 Lincoln St., Suite 210 Eugene, Oregon
HEARINGS OFFICER(s): <u>Don Bramhall, E. Patricia Vernon, Wayne Thomas, Charlie</u> <u>Hensley, Bob Barrows</u>		
STATUTORY AUTHORITY: ORS 459.045; ORS 459.209; ORS 459.248; ORS 459.270; ORS 459.272; ORS 468.020		
ADOPT:	OAR 340-94-115; 340-94-145 [renumbered from OAR 340-94-140(5)]; 340- 95-065; 340-95-095 [renumbered from OAR 340-95-090(5)]	
AMEND:	OAR 340-93-050, OAR 340-94 and OAR 340-95	
REPEAL :	OAR 340-94-150	

X This hearing notice is the initial notice given for this rulemaking action.

□ This hearing was requested by interested persons after a previous rulemaking notice.

X Auxiliary aids for persons with disabilities are available upon advance request.

Attachment B-1, Page 1

SUMMARY:

The proposed rules would implement changes in the provision of financial assurance for closure, post-closure care and corrective action for municipal solid waste landfills and nonmunicipal land disposal sites, as required by 1993 Legislation. The rules integrate state requirements with federal "Subtitle D" regulations for municipal solid waste landfills. They would set criteria and procedures for provision of financial assurance, including establishing wording for financial assurance mechanisms. They would require permittees to prepare two kinds of closure and post-closure plans (a "conceptual" plan and a subsequent, more detailed, engineering design plan) in order to estimate costs of closure and post-closure maintenance.

LAST DATE FOR COMMENT: October 12, 1994 DATE PROPOSED TO BE EFFECTIVE: Upon adoption by the Environmental Quality Commission and subsequent filing with the Secretary of State.

AGENCY RULES COORDINATOR:	Chris Rich, (503) 229-6775
AGENCY CONTACT FOR THIS PROPOSAL:	Deanna Mueller-Crispin
ADDRESS:	Waste Management and Cleanup Division
	811 S. W. 6th Avenue
	Portland, Oregon 97204
TELEPHONE:	(503) 229-5808
	or Toll Free 1-800-452-4011

Interested persons may comment on the proposed rules orally or in writing at the hearing. Written comments will also be considered if received by the date indicated above.

Signature

Date

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Oregon Department of Environmental Quality

A CHANCE TO COMMENT ON...

Solid Waste Rule Amendments:

Criteria for Financial Assurance for Closure and Post-Closure Care

Date Issued: Public Hearings: August 29, 1994 October 4, 1994 October 5, 1994 (2 hearings) October 6, 1994 (2 hearings) October 12, 1994

Comments Due:

WHO IS
AFFECTED:Owners and operators of municipal solid waste landfills; owners and
operators of non-municipal solid waste land disposal sites (including
construction and demolition landfills, woodwaste landfills, industrial
landfills, sludge disposal sites, etc.); local governments owning or
operating solid waste land disposal sites.

WHAT IS PROPOSED: The proposed rules would establish criteria and procedures for provision of financial assurance for closure, post-closure care and corrective action by permittees of solid waste land disposal sites.

WHAT ARE THE HIGHLIGHTS:

The proposed rule would:

1. Require permittees to prepare two kinds of closure and post-closure plans (a "conceptual" plan, and a subsequent, more detailed, engineered plan) in order to estimate costs of closure and post-closure maintenance.

2. Require permittees to submit their initial financial assurance mechanism(s) to the Department (by April 9, 1995 for most affected sites).

3. Require a permittee who provides any non-standard (or "alternative") type of financial assurance to submit certification from a qualified third party that the financial assurance mechanism meets all state and federal regulations.



811 S.W. 6th Avenue Portland, OR 97204

 FOR FURTHER INFORMATION:
 Attachment B-2, Page 1

 Contact the person or division identified in the public notice by calling 229-5696 in the Portland area. To avoid long distance charges from other parts of the state, call 1-800-452-4011.

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4. Require an annual update for the cost estimates for closure and post-closure care, and annual notification to the Department that this update had been completed.

HOW TO COMMENT: Public Hearings to provide information and receive public comment are scheduled as follows:

Conference Room Oregon Department of Transportation 63055 North Highway 97 Bend, Oregon October 4, 1994 10 a.m.

Hearing Room 3A DEQ Headquarters 811 SW 6th Portland, Oregon October 5, 1994 2 p.m.

Northern Wasco PUD 401 Court Street The Dalles, Oregon October 5, 1994 10 a.m.

Jackson County Courthouse Auditorium 10 S. Oakdale Medford, Oregon October 6, 1994 6:30 p.m.

DEQ Offices 1102 Lincoln St., Suite 210 Eugene, Oregon October 6, 1994 7 p.m.

Attachment B-2, Page 2

Written comments must be received by 5:00 p.m. on October 12, 1994 at the following address:

Department of Environmental Quality Waste Management and Cleanup Division 811 S. W. 6th Avenue Portland, Oregon, 97204 Attn: Deanna Mueller-Crispin

A staff report is attached with supporting documents including a copy of the Proposed Rule and proposed wording for financial assurance mechanisms. Additional copies of the staff report or the Proposed Rule may be obtained from the Department by calling Dale Chipman of the Waste Management and Cleanup Division at 229-5965 or calling Oregon toll free 1-800-452-4011.

WHAT IS THEThe Department will evaluate comments received and will make a
recommendation to the Environmental Quality Commission. Interested
parties can request to be notified of the date the Commission will consider
the matter by writing to the Department at the above address.

The buildings where the hearings will be held are wheelchair accessible. If you need special assistance to participate in a hearing, please contact DEQ at (503) 229-5965 or TDD 229-6993.

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Attachment B-2, Page 3

ATTACHMENT B-3

State of Oregon DEPARTMENT OF ENVIRONMENTAL QUALITY

Rulemaking Proposal

for

Solid Waste Land Disposal Sites: Criteria for Financial Assurance for Closure and Post-Closure Care

Rulemaking Statements

Pursuant to ORS 183.335(7), this statement provides information about the Environmental Quality Commission's intended action to adopt a rule.

1. Legal Authority

ORS 459.045, ORS 459.209, ORS 459.248, ORS 459.270, ORS 459.272, ORS 468.020

2. Need for the Rule

This rule implements changes required by 1993 Senate Bill 1012, which changed requirements for provision of financial assurance by solid waste land disposal site permittees. The rule also integrates federal financial assurance criteria in 40 CFR Part 258 ("Subtitle D") for municipal solid waste landfills with the state requirements. The rule spells out procedures and criteria for how financial assurance for landfill closure, post-closure care and corrective action (if needed) is to be provided. Solid waste permittees will be required to prepare two kinds of closure and post-closure plans on which to base cost estimates of closure and post-closure care for land disposal sites; the rule sets dates for their submittal. It includes required wording of the financial assurance mechanisms.

3. <u>Principal Documents Relied Upon in this Rulemaking</u>

OAR Chapter 340 Divisions 93, 94 and 95 ORS Chapter 459 40 CFR Part 258 40 CFR Part 264

Attachment B-3, Page 1

1993 Senate Bill 1012

Meeting notes, DEQ Solid Waste Financial Assurance Work Group California Code of Regulations, Title 14, Article 3.5

4. Advisory Committee Involvement

The Department's Solid Waste Advisory Committee (SWAC) reviewed earlier drafts of this proposed rule in 1993 as they considered a rule package with other necessary solid waste rule changes stemming from 1993 Legislation. The SWAC recommended that the financial assurance part of the rule be given further consideration. The Department convened a special Work Group on Financial Assurance to better define and address the issues involving provision of financial assurance. This Work Group met in February and March 1994, and were requested to comment on a redrafted rule in June. The proposed rule was again brought before the full SWAC in August 1994.

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ATTACHMENT B-4

State of Oregon DEPARTMENT OF ENVIRONMENTAL QUALITY

Rulemaking Proposal for Solid Waste: Criteria for Financial Assurance for Closure and Post-Closure Care

Fiscal and Economic Impact Statement

Introduction

The following elements of this rulemaking proposal would have fiscal and economic impacts:

- 1. Financial assurance for land disposal site closure (at the time a solid waste permit is issued for a new facility, or by a date certain for existing facilities -- April 9, 1995 for most facilities).
- 2. Financial assurance for post-closure care of land disposal sites (same timing as above).
- 3. Financial assurance for corrective action for known releases.
- 4. Preparation of a conceptual "worst-case" closure plan and a "conceptual" post-closure plan for non-municipal land disposal sites by April 9, 1995.
- 5. If a permittee elects to provide an "alternative" form of financial assurance (requiring review and approval of the Department), requirement for the financial assurance mechanism to be certified by a qualified third party as meeting all applicable state and federal regulations.
- 6. For municipal solid waste landfills: If a trust fund is used as the financial mechanism for closure or post-closure care: allowing the pay-in period to run until the anticipated closure date of the landfill unit (rather than only until the permit expiration date).
- 7. Allowing use of a discount rate in calculating estimated "current costs" for closure and post-closure care.

Attachment B-4, Page 1

Following is a discussion of the fiscal impact of the above.

<u>Note:</u> There are federal and state financial assurance requirements for municipal solid waste landfills, and state requirements for all land disposal sites. Except in a few instances which will be noted, the proposed rules do not create fiscal impacts for municipal landfills, as they just implement financial assurance requirements already established in federal regulations (40 CFR Part 258, or "Subtitle D"). The current proposed rule would establish procedures and set criteria for provision of the required financial assurance for municipal solid waste landfills. 1993 Senate Bill 1012 created additional financial assurance requirements for *nonmunicipal land disposal sites*. A previous rule adoption by the Environmental Quality Commission established a delay in implementation dates for financial assurance (adopted on April 22, 1994). See Fiscal and Economic Impact Statement of that rulemaking for general impacts associated with SB 1012.

The Department estimates that there are 25 or 26 municipal solid waste landfills in Oregon which will remain open and be subject to the financial assurance requirements. Of those, 14 are privately operated (some of which already have financial assurance). The others are operated by local government units, which may be able to use special provisions in rules anticipated to be promulgated by the Environmental Protection Agency (EPA) in January, 1995 (Local Government Financial Test). These rules are expected to provide a performance option for financial assurance for the local government, at considerable cost savings.

Non-municipal land disposal sites subject to the financial assurance requirements include the following: five construction and demolition landfills; about 44 woodwaste landfills; four pulp and paper landfills; nine "other" industrial landfills; and about 16 sludge disposal or landspreading sites. The Department has specifically exempted some of these sites from financial assurance requirements. Others will need to comply.

1. <u>Financial assurance for closure</u>. The amount of financial assurance to be provided must cover third-party costs of closure. Federal regulations for municipal solid waste landfills (40 CFR Part 258, or "Subtitle D") require that the cost estimates be for closure at the time when it would be the most expensive.

The Department may exempt non-municipal land disposal sites from the closure and post-closure financial assurance requirements if the site poses no significant threat of adverse impact on ground- or surface water, or to public health.

Site closure includes constructing final cover and revegetating the surface. The cost of closing a land disposal site depends on the type of site and how large it is. The Department estimates that an average cost for site closure for municipal solid waste landfills is about \$110,000 per acre, with a range of \$85,000 to \$175,000/acre. In general, municipal landfills cover 10 acres or more.

Attachment B-4, Page 2

In general, closure costs for non-municipal land disposal sites will be less than for municipal landfills since stringent federal requirements do not apply. Most nonmunicipal sites (e.g. woodwaste landfills) will have only a soil cover. Closure costs for such a site might be as little as \$1,000 an acre. An industrial facility might require a synthetic cap; in that case, the closure costs would be similar to those of municipal landfills (above). Woodwaste landfills average about five acres (with a range of two to 10 or more); pulp and paper landfills are somewhat larger, averaging about 10 acres.

The cost of the financial assurance mechanism depends on which mechanism is chosen. A trust fund requires annual payments so that the fund contains sufficient funds for closure and post-closure care when needed. (See also paragraph 6. below) The costs of providing a corporate guarantee for closure and post-closure care would be simply the costs of assembling the required financial information and certification by an independent CPA. (See also paragraph 5. below) EPA in the prologue to its Subtitle D regulations estimates that the annual cost of various other financial assurance mechanisms is 1 to 2 percent of the full amount required. That is, for closure costs of \$1,000,000, an annual cost for financial assurance would be \$10,000 to \$20,000.

2. <u>Financial assurance for post-closure care</u>. Thirty years of post-closure care are required (unless reduced by the Department). Post-closure care includes such activities as maintaining groundwater monitoring systems, sampling groundwater and maintaining site security. Groundwater monitoring is required for municipal sites, but in many cases is not for non-municipal sites.

Post-closure maintenance costs depend on many factors, including site-specific hydrogeology, size of the site and number of monitoring wells required. Annual monitoring costs may range from \$500 to \$5,000 per well. For a relatively straightforward site, annual post-closure maintenance costs could reach \$10,000. A large, complex site might incur annual maintenance costs of up to \$50,000. At a non-municipal site where no groundwater monitoring is required and there is no erosion, annual post-closure costs might be as little as \$300 (for one day's visual observation).

3. <u>Financial assurance for corrective action</u>. Financial assurance for corrective action will be required only if groundwater quality standards are violated by the facility and the Department requires corrective action (persons responsible for polluting groundwater are in any case responsible for remediation). Groundwater remediation begins with a full characterization of the geochemistry and geology of a site, and may include a pump and treat system that continues indefinitely. Such systems may easily cost \$500,000 a year, and may amount to millions or even tens of millions of dollars per site over time.

- 4. <u>Preparation of conceptual "worst-case" closure plan and conceptual post-closure plan.</u> Larger non-municipal solid waste land disposal sites might need to hire an engineering firm to prepare closure and post-closure plans. The two plans would likely be prepared together; \$10,000 is a representative cost for that service. A large pulp and paper site might require a synthetic liner; conceptual plans for such a site could run to \$30,000. Plans for small non-municipal sites (such as woodwaste sites with no groundwater monitoring requirement) could be much more modest, prepared in a day's time by a staff engineer at a cost of less than \$500.
- 5. <u>Third party review.</u> If a permittee elects to provide an "alternative" financial assurance mechanism, the permittee would submit their proposed financial assurance mechanism together with certification by a qualified third party. This certification would be restricted to a determination of whether the financial mechanism met all applicable regulations, not a determination of whether the cost estimates are accurate. The certification would include such things as whether the mechanism met the criteria (e.g. the amount of money needed at any given time in the future would be available when needed under the proposed mechanism). The "qualified third party" might be a certified public account, an attorney, or a licensed bookkeeper (in the case of a smaller facility). The certification might require one or two days' review time by an accounting firm. If the firm charges \$100 an hour, the costs to be borne by a permittee would range from \$800 to \$1600. This type of review is already required by rule for a permittee proposing to use a corporate guarantee as financial assurance.
- 6. Trust fund pay-in period. Use of a trust fund is one financial assurance option. The permittee would pay into a trust fund, over time, sufficient funds to pay for closure and post-closure care when those activities are scheduled to happen. The Subtitle D regulations require that the payments be made "over the term of the initial permit or over the remaining life" of the landfill unit, "whichever is shorter." The Department issues solid waste permits for five years. Adherence to this pay-in period would result in a severe financial hardship for many permittees, especially if they have short permit periods and a long site life remaining. They would have to complete potentially several million dollars of payments into a trust fund in two or three years. Discussions with EPA Region X staff suggest that the EPA regulation did not take into consideration that some states might issue short-term permits. The Department is proposing to allow a "state-approved trust fund" as an alternative financial assurance mechanism. The Department could approve a pay-in period equal to the active life of the facility, or in any case whenever the funds would be needed for scheduled closure or post-closure activities. This would avoid the adverse consequences of the Subtitle D pay-in period. The financial impact on a permittee would be positive, but would depend on the pertinent cost estimates and remaining active life of the facility.

7. Discount rate. Subtitle D (and Department rule) require cost estimates for closure and post-closure care to be made in "current dollars." Post-closure costs represent a future cash outflow stream covering up to a 30-year period of time. Appropriate financial practices dictate that such future cash flow streams be discounted before they can be stated in terms of current dollars. The proposed rule allows use of a discount rate equal to the current yield of a five-year U.S. Treasury Note (about 6%) for non-municipal solid waste land disposal sites. Use of the discount rate in calculating costs will avoid accumulating an excessive amount of financial assurance. For example, assume a permittee wants to establish a trust fund as financial assurance for post-closure care, making equal semiannual payments starting today. The post-closure care period will start five years from today. Further assume the permittee will incur \$10,000 annual post-closure costs for 30 years until the postclosure obligation ends in the year 2034. Using a zero discount rate the permittee would have to make payments of approximately \$4,412 semiannually. At a 6 percent discount rate it would cost the permittee approximately \$3,011 semiannually.

General Public

There would be no direct effect on the general public. Additional costs of financial assurance would likely be passed on to the public by municipal solid waste landfills, likely as an increase in per-ton disposal fees. Costs charged by one municipal landfill in Oregon for their closure and post-closure sinking fund have ranged from \$.67 to \$5.41/ton. A benefit to the public is that the requirements for financial assurance will help ensure that permittees rather than the public will bear closure, post-closure and corrective action costs for their facilities.

Small Business

Some landfill operators are small businesses. They would incur the costs identified above.

Large Business

Some landfill operators are large businesses. They would incur the costs identified above in the same manner as small businesses. Large businesses are more likely than small businesses to operate larger industrial landfills, so they would more likely be affected by the costs associated with non-municipal land disposal site operation.

Local Governments

Local governments operate both large and small landfills. However, small landfills are more likely to be operated by local governments than by private businesses. Some local governments operate construction and demolition (i.e. non-"municipal" landfills) and as such, would be affected by costs for non-municipal land disposal sites.

Attachment B-4, Page 5

State Agencies

- DEQ

Workload:

The Department will need to devote increased resources to reviewing and approving proposals for "alternative" financial assurance mechanisms. Review of any financial assurance mechanisms selected for this review would require additional resources. It is likely that fewer than ten reviews would take place each year. Some review criteria will be developed. Existing staff (the Agency's Financial Officer) will perform the review. Some non-municipal permittees may request exemptions from financial assurance requirements before the April 9, 1995 date, creating additional work for the DEQ site project officer (engineer, hydrogeologist and/or environmental specialist).

<u>Revenues:</u> No effect on revenues.

<u>Expenses:</u> No additional expenses (except of diverting some existing staff effort from other activities to the above-mentioned reviews).

- Other Agencies

The Department of Justice would be asked to determine legal sufficiency of any new legal documents developed for proposed "alternative" financial assurance mechanisms. This could require several hours per instrument, and would be handled with existing staff.

Other agencies would not be directly affected. No state agency holds a solid waste disposal permit.

fiscimp.fa

Attachment B-4, Page 6

ATTACHMENT B-5

State of Oregon DEPARTMENT OF ENVIRONMENTAL QUALITY

Rulemaking Proposal

for

Solid Waste Land Disposal Sites: Criteria for Financial Assurance for Closure and Post-Closure Care

Land Use Evaluation Statement

1. Explain the purpose of the proposed rules.

This rule implements changes required by 1993 Senate Bill 1012 in the provision of financial assurance for closure, post-closure care and corrective action (if needed) for solid waste land disposal sites. SB 1012 requires that financial assurance be provided "up front" rather than five years before anticipated closure, as was the case under previous state law. The rule establishes procedures and criteria for the provision of financial assurance.

2. Do the proposed rules affect existing rules, programs or activities that are considered land use programs in the DEQ State Agency Coordination (SAC) Program?

Yes No X

- a. If yes, identify existing program/rule/activity:
- b. If yes, do the existing statewide goal compliance and local plan compatibility procedures adequately cover the proposed rules?

Yes No (if no, explain):

c. If no, apply the following criteria to the proposed rules.

Staff should refer to Section III, subsection 2 of the SAC document in completing the evaluation form. Statewide Goal 6 - Air, Water and Land Resources is the primary goal that relates to DEQ

Attachment B-5, Page 1

authorities. However, other goals may apply such as Goal 5 - Open Spaces, Scenic and Historic Areas, and Natural Resources; Goal 11 - Public Facilities and Services; Goal 16 - Estuarine Resources; and Goal 19 - Ocean Resources. DEQ programs or rules that relate to statewide land use goals are considered land use programs if they are:

1. Specifically referenced in the statewide planning goals; or

2. Reasonably expected to have significant effects on

- a. resources, objectives or areas identified in the statewide planning goals, or
- b. present or future land uses identified in acknowledged comprehensive plans.

In applying criterion 2. above, two guidelines should be applied to assess land use significance:

- The land use responsibilities of a program/rule/action that involves more than one agency, are considered the responsibilities of the agency with primary authority.
- A determination of land use significance must consider the Department's mandate to protect public health and safety and the environment.

In the space below, state if the proposed rules are considered programs affecting land use. State the criteria and reasons for the determination.

Issuing new solid waste land disposal site permits and renewal of solid waste permits when there is a significant change the site are considered programs affecting land use in the DEQ State Agency Coordination Program. Issuing solid waste land disposal site closure permits (with detailed plans on how the site will be closed and how post-closure maintenance will be carried out) is not considered to be a program affecting land use under the Coordination Program.

3. If the proposed rules have been determined a land use program under 2. above, but are not subject to existing land use compliance and compatibility procedures, explain the new procedures the Department will use to ensure compliance and compatibility.

une Mueller - Very

Intergovernmental Coord.

Date

landuse.fa

Attachment B-5, Page 2

ATTACHMENT B-6

Questions to be Answered to Reveal Potential Justification for Differing from Federal Requirements.

The following questions should be clearly answered, so that a decision regarding the stringency of a proposed rulemaking action can be supported and defended:

- Note: If a federal rule is relaxed, the same questions should be asked in arriving at a determination of whether to continue the existing more stringent state rule.
- 1. Are there federal requirements that are applicable to this situation? If so, exactly what are they?

40 CFR Parts 257 and 258, Solid Waste Disposal Facility Criteria ("Subtitle D") -- apply to municipal solid waste landfills.

40 CFR Part 257 also applies to non-municipal land disposal facilities, but contains no regulations for financial assurance, or for closure or post-closure plans.

2. Are the applicable federal requirements performance based, technology based, or both with the most stringent controlling?

The federal requirements are for a detailed written estimate of the cost of closure, post-closure care and corrective action, if required, for municipal solid waste landfills, and a demonstration that financial assurance based on those costs is available. Several allowable financial assurance mechanisms are listed, with an additional "performance-based" option: other financial assurance mechanisms may satisfy the requirement if they meet certain criteria in 40 CFR §258.74, and are approved by the Director of an "approved State", which Oregon is.

3. Do the applicable federal requirements specifically address the issues that are of concern in Oregon? Was data or information that would reasonably reflect Oregon's concern and situation considered in the federal process that established the federal requirements?

The federal financial assurance rules are similar to existing Oregon rules. A main difference was that federal financial assurance for closure and post-closure care is required at the time a new municipal solid waste landfill permit is issued. Until the 1993 change in Oregon legislation (SB 1012, in response to federal Subtitle D requirements), financial assurance for closure of land disposal sites

Attachment B-6, Page 1

was required five years before anticipated closure of the site. DEQ requested additional authorities from the 1993 Legislature in order to be able to fully implement the Subtitle D regulations and become an EPA-"approved state". ("Approved state" status brings a state considerable flexibility in implementing the Subtitle D regulations.) Among the necessary changes in state law were authority to require corrective action, authority to require financial assurance for corrective action, a requirement for a permittee to present financial assurance for closure and post-closure care "up front," and to update financial assurance annually. The proposed rule implements these new requirements for municipal solid waste landfills.

The Department did not identify any issues of specific concern to Oregon related to the financial assurance part of the federal rule development.

4. Will the proposed requirement improve the ability of the regulated community to comply in a more cost effective way by clarifying confusing or potentially conflicting requirements (within or cross-media), increasing certainty, or preventing or reducing the need for costly retrofit to meet more stringent requirements later?

> The proposed rules will clarify how municipal solid waste landfill permittees are to comply with both federal and state regulations on financial assurance (and preparation of closure and post-closure plans), avoiding duplication of effort as much as possible.

5. Is there a timing issue which might justify changing the time frame for implementation of federal requirements?

Not applicable for municipal facilities; federal timing was more stringent than state.

There are no federal financial assurance requirements for non-municipal facilities; Oregon has had state requirements for financial assurance applicable to all "land disposal sites" since 1984. In establishing these requirements, the Legislature recognized that non-municipal sites as well as municipal sites incur costs of closure and, often, post-closure care. If the permittee is not required to make provision for such costs, costs of closure and post-closure care may fall back on the public. The Environmental Protection Agency is expected to develop more detailed criteria for non-municipal solid waste disposal sites in the future. These regulations may include requirements for financial assurance.

6. Will the proposed requirement assist in establishing and maintaining a reasonable margin for accommodation of uncertainty and future growth?

The requirement to update cost estimates and financial assurance annually provides for future expansion of the facility (and associated costs) that might occur in the future.

7. Does the proposed requirement establish or maintain reasonable equity in the requirements for various sources? (level the playing field)

All permittees in any category are treated the same. Federal regulations do not allow exemptions from financial assurance for municipal facilities. State law and the proposed rule continue to allow exemptions for non-municipal facilities if they meet exemption criteria.

8. Would others face increased costs if a more stringent rule is not enacted?

As noted above, if a landfill permittee does not provide sufficient funds for closure of the facility, post-closure care and corrective action (if needed), the public will likely have to pick up the costs for those activities.

9. Does the proposed requirement include procedural requirements, reporting or monitoring requirements that are different from applicable federal requirements? If so, Why? What is the "compelling reason" for different procedural, reporting or monitoring requirements?

Yes. For municipal facilities:

- o Permittees are required to use wording of financial assurance mechanisms specified by the Department. (Subtitle D: mechanisms must meet specific requirements, but exact wording is not required.) Requiring specific wording simplifies provision of financial assurance for the permittee, the financial institution issuing the mechanism, and for the Department. This is analogous to federal requirements for financial assurance for hazardous waste disposal sites.
- o The initial financial assurance instrument must be submitted to the Department. (Subtitle D: It must be placed in the facility operating record and the state Director notified of that action.) The Department believes that it must retain some responsibility for ensuring that the financial assurance mechanism has been prepared.
- The permittee must notify the Department annually that the cost estimates of closure and post-closure care have been reviewed, and the financial assurance mechanism updated accordingly. (Subtitle D: the Director must be notified only if the amount of financial

assurance is reduced.) This is a part of the Department's continuing responsibility for ensuring that financial assurance is available in the appropriate amount.

- A permittee may elect to propose an "alternative" financial assurance mechanism, rather than use one of the standard forms specified in the rule. A permittee must also submit a certification from a qualified third party that the alternative mechanism meets all state and federal requirements. Alternative mechanisms are subject to Department review and approval. (Subtitle D: an "alternative" [or "state-approved"] financial mechanism is subject to Department approval, but not third-party certification.) The Department believes that due diligence requires qualified third party review.
- o The Department requires Final Engineered Plans for closure and post-closure, in addition to plans required by Subtitle D. These plans are prepared five years before anticipated site closure, and are subject to Department approval. Such plans have been required since 1984, and are part of the Department's responsibility to ensure proper landfill closure and post-closure care for protection of groundwater and the environment.

Yes, for non-municipal facilities.

Requirements are similar to those for municipal facilities. Rationale is also the same.

10. Is demonstrated technology available to comply with the proposed requirement?

Not applicable.

11. Will the proposed requirement contribute to the prevention of pollution or address a potential problem and represent a more cost effective environmental gain?

An increased level of Department scrutiny in monitoring facility closure, postclosure and corrective action activities will correspondingly contribute to the prevention of pollution. Again, ensuring that permittees have available funds for those activities will preclude the public having to finance them.

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Attachment B-6, Page 4

Attachment C

State of Oregon Department of Environmental Quality

Memorandum

Date: 10-5-94

То:	Environmental Quality Commiss	ion
From:	Joan Grimm, Solid Waste Policy	and Programs
Subject:	Presiding Officer's Report for R Hearing Date and Time: Hearing Location:	ulemaking Hearing 10/5/94, beginning at 2 p.m. Conference Room 3A, DEQ Headquarters, Portland, Oregon
	Title of Proposal: Criteria for Fi	nancial Assurance for Closure and Post

Closure Care

The rulemaking hearing on the above titled proposal was convened at 2 p.m. People were asked to sign witness registration forms if they wished to present testimony. People were also advised that the hearing was being recorded and of the procedures to be followed.

Five people were in attendance, two people signed up to give testimony.

People were then called to testify in the order of receipt of witness registration forms and presented testimony as noted below.

Bert Cathery: Representing Cascade Pacific Engineering

Noted that he had recently completed a closure (post closure) plan for Short Mountain Landfill in Lane County. He ran into problems trying to complete the plan because of the lack of definition of "final cover." In trying to estimate a cost for the final cover, he started with a 24" layer of topsoil (in most states it is 18"), then there is a drainage layer 12" of gravel which is very expensive, a flexible membrane liner (FML) under the drainage layer, and finally on top of the waste, 24" of packed clay. In all, these closure costs amount to more than 7 million dollars. This is for 64 acres, using the DRAFT requirements. The only requirement in OAR 340-94 at the moment is for 3' of packed

Memo To: Environmental Quality Commission October 5, 1994 Presiding Officer's Report on October 5, 1994 Rulemaking Hearing Page 2

clay. According to the federal rules, if there is an FML in the liner, there has to be one in the cover. That is very important to the cost estimates, and needs clarification.

Supports preparation of a conceptual plan; a final plan is very expensive, almost as expensive as preparing an application for a permit. Regarding estimating costs for costs for the worst possible scenario in closing the landfill--there should be a clause allowing the cost estimate to be reduced if there are changes in the landfill operation that would lower those costs. For example, at the moment Short Mountain has 64 acres ("worst case" scenario) to be closed. These will be closing as they go, as permitted elevations are reached, and those 64 acres will be reduced by 75%. They should be able to reduce the amount of financial assurance by 75%.

Norman Carr: Representing Selective Settlements International

Landfill owners and operators want to select the most appropriate and cost effective funding mechanism. Several acceptable funding mechanisms are listed in this regulation, including an insurance policy that provides the necessary funds when required for closure and post closure liabilities. It is not very descriptive. Most owners and operators are likely unaware that insurance policies do indeed exist for this, but calling these simply an insurance policy is somewhat of a misnomer. They should be referred to as an "environmental structured settlement," or a "funding agreement contract." These are essentially a spin-off from the traditional structured settlement device used historically in the personal injury litigation arena and restructured to respond to long-term environmental liabilities. It is very important to get the word out to people who could use this device. There are a lot of municipalities that will have extreme difficulty in responding to these new fiscal requirements. It might affect their capacity to borrow. This might a solution for them to consider. The rules should indicate that the above instrument is an option, rather than just stating an insurance policy is acceptable.

No one handed in written comments who did not present oral testimony.

There was no further testimony and the hearing was closed at 2:40 p.m.

Attachments: Written Testimony Submitted for the Record.

eqc

Date: October 7, 1994

То:	Environmental Quality Commission	
From:	Wayne C. Thomas, P.G., Hearings Officer	
Subject:	Hearings Officer Report Proposed Financial Assurance Rules The Dalles, Oregon	

On October 5, 1994, I conducted a Public Hearing for proposed rules to establish criteria and procedures for the provision of financial assurance for closure, post-closure care and corrective action by permittees of solid waste disposal sites, as stipulated in OAR 340-93 through 97. The hearing was held at 10:00 in the Northern Wasco PUD office, 401 Court Street, The Dalles, Oregon.

There were four members of the public present at the hearing. The original attendance list is attached. The attendees were:

- 1. Jim Tarr, Sanifill, The Dalles
- 2. Judith Henley, Sanifill, Inc., 300 Drakes Landing Suite #155, Greenbrae, CA 94904 (Please add to DEQ Mailing list)
- 3. Gary Rahn, Rt.1 Box 79, Athena, Oregon 97813
- 4. Colleen Rahn (as above)

Prior to the hearing I asked the attendees if they intended to present testimony but they unanimously stated that they did not have testimony, instead they wanted to ask questions concerning the proposed action and Subtitle D in general. I closed the hearing and we proceeded to have an informal discussion regarding a variety of topics. The meeting adjourned at 11:30.

Attachment WCT:94072

Memorandum

Date: October 5, 1994

To: Environmental Quality Commission onald L. Branhall From:

Subject: Presiding Officer's Report for Rulemaking Hearing

Hearing Date and Time: October 4, 1994 beginning at 10 AM

Hearing Location:

Department of Transportation Conference Room, Bend, Oregon

Title of Proposal: Solid Waste Rule Amendments: Criteria for Financial Assurance for Closure and Post-Closure Care

The rulemaking hearing on the above titled proposal was convened at 10 AM.

People were asked to sign witness registration forms if they wished to present testimony. People were also advised that the hearing was being recorded and of the procedures to be followed.

Three people were in attendance, no one signed up to give testimony. I informally discussed the rulemaking proposal with the attendees, and we discussed other solid waste issues of interest to them. I also explained that written testimony would be received by the Department through October 12, 1994.

There was no testimony and the hearing was closed at 1:30 PM.

Attachments:

Sign-In Sheet.

C-4

Date: 10 October 1994

То:	Environmental Quality Commiss	ion
From:	Charles A. Hensley	
Subject:	Presiding Officer's Report for Rulemaking Hearing Hearing Date and Time: 6 October, beginning at 6:30 PM Hearing Location: Jackson County Courthouse Audite Medford, Oregon	
	Title of Proposal: Solid Waste Requiremen	Disposal Site Financial Assurance ts

The rulemaking hearing on the above titled proposal was convened at 6:30 PM. Witness registration forms were available for an attendance list and for those wishing to present testimony.

0 people were in attendance, 0 people signed up to give testimony.

No written comments were handed in.

There was no testimony and the hearing was closed at 7:00 PM.

C-5

Date: 10/13/94

To:	Environmental Quality Commiss	on
From:	Bob Barrows	
Subject:	Presiding Officer's Report for Ru Hearing Date and Time: Hearing Location:	ulemaking Hearing October 6, 1994, beginning at 7 pm DEQ Offices 1102 Lincoln St., Suite 210 Eugene, OR
	Ĩ	Rule Amendments: Criteria for Financial or Closure and Post-Closure Care

The rulemaking hearing on the above titled proposal was convened at --not convened because no one attended the hearing --. People were asked to sign witness registration forms if they wished to present testimony. People were also advised that the hearing was being recorded and of the procedures to be followed.

0 people were in attendance, 0 people signed up to give testimony.

Prior to receiving testimony, --not applicable-- briefly explained the specific rulemaking proposal, the reason for the proposal, and responded to questions from the audience.

People were then called to testify in the order of receipt of witness registration forms and presented testimony as noted below.

----Not applicable.----

The following people handed in written comments but did not present oral testimony:

---Not applicable.---

There was no further testimony and the hearing was closed at -- I closed the doors to the building at 7:30 pm.--

Attachments:

Written Testimony Submitted for the Record. ---None---

Attachment D

INDEX OF ORAL AND WRITTEN COMMENTS RECEIVED DURING PUBLIC REVIEW

Solid Waste Financial Assurance Rules

A summary of all oral and written comments received on the Proposed Rules is contained in Attachment E, together with Department responses. The following persons gave oral comments on the Proposed Rules:

- 1. Bert Cathery, Cascade Pacific Engineering, 8365 S.W. Ridgeway Drive, Portland, OR 97225.
- 2. Norman D. Carr, Selective Settlements International, 4411 N.E. Tillamook, Portland, OR 97213.

The following persons submitted written comments on the Proposed Rules:

- 2. Norman D. Carr, Selective Settlements International, 4411 N.E. Tillamook, Portland, OR 97213. October 5, 1994.
- 3. Mark E. Leary, Manager, Regulatory Affairs, Browning-Ferris Industries, Western Region, 915 L Street, Suite 1140, Sacramento, CA 95814. October 1, 1994.
- 4. Dave Leonard, P.E., Director of Public Works, Public Works Department, Douglas County, 1036 S.E. Douglas, Room 219, Roseburg, OR 97470. October 7, 1994.
- Doug Coenen, Division President and General Manager, Oregon Waste Systems, Inc., Columbia Ridge Landfill & Recycling Center, 18177 Cedar Springs Lane, Arlington, OR 97812. October 10, 1994.
- 6. Al Driver, Transportation and Solid Waste Director, Deschutes County Department of Public Works, 61150 S.E. 27th St., Bend, OR 97702.

The following persons submitted additional written comments after the close of the public comment period:

Norman D. Carr, Selective Settlements International, 4411 N.E. Tillamook, Portland, OR 97213. October 14, 1994 and November 3, 1994.

Mark Leary, Manager, Regulatory Affairs, Browning-Ferris Industries, Western Region, 915 L Street, Suite 1140, Sacramento, CA 95814. October 31, 1994.

Attachment E

State of Oregon Department of Environmental Quality

Memorandum

Date: October 26, 1994

То:	Environmental Quality Commission	
From:	E. Patricia Vernon, Manager, Solid Waste Policy and Programs Section	
Subject:	Summary and Evaluation of Public Comments and Response to Comments Solid Waste Financial Assurance Rule Adoption	

Public hearings were held on the Proposed Rules on October 4, 5 and 6, 1994 in Portland, Bend, The Dalles, Eugene and Medford. A total of 12 people attended the hearings. Two persons gave oral testimony. Six written comments were received by the Department (including one submitted by a person testifying orally). One additional written comment was received after the end of the comment period. Below is a summary of the comments received and the Department's responses. The numbers in brackets refer to the list in Attachment D.

Comment 1: DEQ Rulemaking Process

COMMENT: [Comments received from #4] DEQ's rulemaking process is philosophically troublesome. The agency solicits comments from affected parties and then interprets those comments for the governing board (EQC). How can affected entities be assured that their concerns are clearly interpreted and objectively presented?

RESPONSE: Staff makes every effort to accurately represent comments received. In addition, copies of all written comments received by DEQ are forwarded to the EQC together with the staff report, as well as being summarized in that report.

Comment 2: Stringency

COMMENT: [Comments received from #4] Oregon rules are often more stringent than Federal law. Few or none of those "more stringent" provisions serve the public interest. Each such provision should be reexamined objectively.

RESPONSE: The following are major areas that were identified as more stringent

than federal requirements in the August 29, 1994 Memo to Interested and Affected Public on this rulemaking:

- a. Financial assurance for non-municipal land disposal sites (for closure, postclosure care, and corrective action). This is required by Oregon statute, and thus cannot be changed by rule. Statute and rule both allow exemptions if the site is not likely to cause environmental problems.
- b. Financial assurance for corrective action is tied to state groundwater protection standards, which are in some cases more stringent than federal requirements. This rulemaking is not the appropriate forum for proposing changes to the state groundwater protection standards.
- c. Requirement for engineered site closure plans requiring Department approval. This has been a part of Oregon solid waste rules since 1984, and is considered by the Department to be a necessary part of its oversight in assuring environmentally sound site closure.
- d. Requirement for certification by a qualified third party of any proposed "alternative" financial assurance mechanism. Alternative financial assurance mechanisms are allowed, but all such mechanisms must be approved by the Director of DEQ. Such "state-approved" alternative mechanisms are allowed but not required by federal regulations for municipal solid waste landfills. Allowing alternative mechanisms is an advantage for permittees who may find it difficult to provide any of the specific mechanisms permitted outright by federal requirements. Third-party certification will facilitate the Department's review by limited staff available for this purpose.

The proposed rules were not changed in response to this comment.

Comment 3: Trust fund pay-in period (OAR 340-94-145(5)(g))

COMMENT: [Comments received from #5] Expressed concern that rules allow a trust fund to be built up (fully funded) over the entire projected life of the site. This means that adequate funds would not be available for both closure and post-closure care if for some unexpected reason the site had to close prior to the forecasted site life. There are other forms of financial assurance available, but some permittees may choose not to select those mechanisms either because they do not meet financial

> standards required by the financing institution, or because the options appear too expensive. Such permittees may have marginal financial wherewithal and may represent the highest risk. Allowing the pay-in approach cited above could have the effect of encouraging inadequately financed permittees to postpone recognition of their true liabilities. This is counter to the intent of the rule.

If DEQ believes the "pay-in" approach is acceptable, the same standard should be applied to other mechanisms such as surety bonds. The required bond amount in any given year would be the same as the amount required to be in a trust fund in that year, and would similarly increase year-to-year. This would minimize a built-in financial advantage to those using a trust fund.

RESPONSE: A trust fund is different from other financial assurance mechanisms in that it provides actual cash to be used for its stated purposes. DEQ's financial assurance rule closely parallels the federal Subtitle D rule, which specifically allows a pay-in period for trust funds. Federal regulations do not allow "phasing in" for the amount required for other types of financial assurance, as the commenter suggests. In every case, the financial assurance plan for a facility must be designed to fit the individual case; the maximum amount required (e.g. for a "worst-case" closure scenario) will change over time. This could allow eventual reduction of the maximum amount to be covered by whatever mechanism is chosen. (See Comment 20) The proposed rules were not changed in response to this comment.

Comment 4:

"Worst-Case" Closure Performance Standard (OAR 340-94-100 and 34-95-050)

COMMENT: [Comments received from #5] The sections dealing with "worst-case" closure plans require a forecast of the largest open (i.e. unclosed) area that will exist over the site life. Language should be added that explicitly forbids a permittee from expanding the "unclosed" portion of the landfill to an area larger than that represented by the worst-case closure area.

RESPONSE: The Department believes that this situation is self-governing and does not require a separate rule provision. If a permittee did exceed its forecast of the largest open area, without including that additional cost in the annual update to its financial assurance plan and mechanism, that permittee would be in violation of Department rule. Subtitle D for municipal solid waste landfills explicitly requires that any time landfill conditions change to increase the maximum cost of closure (such as

E - 3

having a larger open area than forecast), the owner/operator must increase the corresponding amount of financial assurance. The proposed rules were not changed in response to this comment.

Comment 5: Discount Rate (OAR 340-94-140 and 340-95-90)

COMMENT: [Comments received from #4] DEQ has proposed a discount rate (to be used in the annual closure/post-closure cost update) equal to the current yield of a five-year U.S. Treasury Note. This is too liberal to be an accurate indicator. Few agencies consistently match its performance. Most public agencies in Oregon are limited by statute to short-term (less than two years) investments. Most public agencies invest their funds in the Local Government Investment Pool (LGIP) administered by the State Treasurer. An index based on the LGIP average rate would be more accurate because of the large number of regulated agencies using this investment mechanism.

RESPONSE: The comment is well taken that a less than two-year investment timeframe may more accurately reflect reality for public agencies. While many solid waste disposal facilities are operated by public entities, others are run by private industry which has a different investment framework. In the course of developing this rule, the Department received various recommendations for discount rates, ranging from this one for two years to the 30-year U.S. Treasury Bond rate. The Department agrees that using a discount rate based on the yield of a five-year U.S. Treasury Note (in the Proposed Rule) may be relatively liberal. However the Department believes that the five-year perspective is a reasonable and defensible middle ground. In addition it corresponds to the five-year timeframe for which solid waste permits are issued. While it would be possible to establish different discount rates for public and private permittees, the Department believes it would be more equitable to use the same discount rate for all permittees. Therefore the proposed rules were not changed in response to this comment.

Comment 6: DEQ Access to Permitted Sites (OAR 340-93-050(5)(e))

COMMENT: [Comments received from #4] A representative of the site operator should be allowed or required to accompany any visit to a permitted site by a DEQ inspector. This would offer an opportunity for the owner's representative to provide sufficient firsthand information to satisfy the inspector's concerns, and avoid

misunderstandings leading to the operator having to expend substantial effort to respond. Access for inspection of a site should be regulatorily similar to Oregon OSHA.

RESPONSE: The proposed rule would add access to *records* to current rule language concerning site access and inspection, as authorized by 1993 legislation. The rule follows statutory language, allowing site access "at reasonable times to determine compliance with and to enforce" solid waste statutes. OSHA Administrative Rules require an OSHA Compliance Officer to conduct a joint opening conference, if possible, with the employer or a representative, to explain the nature of the inspection and request records to be examined, among other procedures. A closing conference is also held. OSHA regulations also state that no inspection will be made if no one is present, except under special conditions. These OSHA procedures go beyond DEQ statutory requirements.

In order to locate site records for inspection, the Department inspector would have to speak with a representative of the permittee. The Department has no policy that prevents an owner/operator from accompanying a DEQ inspector on a site visit. Therefore the Department believes that a change in rule language is unnecessary.

Comment 7: Jury of Professionals to Arbitrate Differences of Opinion (OAR 340-94-115(3)(d)(B)

COMMENT: [Comments received from #4] [The comment specifically refers to the part of the rule dealing with a request to amend a post-closure plan to extend or reduce the post-closure care period. The rule includes a demonstration "to the satisfaction of the Department" of certain criteria in order for the plan amendment to be approved. There are also other places in the rule requiring such a demonstration.] That DEQ should be both the maker and interpreter of rules is logically unsound, and leaves the permittee in a vulnerable position to be manipulated by DEQ. Suggest that a jury of professionals should be used to arbitrate differences of opinion between DEQ and permittees. This would provide a more objective method of satisfying the intent of the rules, and be more cost- and time-effective.

RESPONSE: The Department has a broad charge to protect public health and the environment. A significant part of its responsibility is to exercise professional judgment in approving engineering plans and designs which meet the general performance standards set by Department rule. The statute (ORS 459.270(3))

specifically states that a permittee may apply for termination of a permit after a disposal site is closed; but further states that "Before the Department grants a termination or release..., **the Department must find** that there is no longer a need for active supervision of the site [etc]..." [emphasis added] Submitting differences of opinion between the Department and permittees for arbitration to a jury of professionals could absorb significant time and financial resources. But more importantly, it would be contrary to statute and an abdication of the Department's responsibility. Therefore the proposed rules were not changed in response to this comment.

Comment 8: Landfill Closure Cutoff Date (OAR 340-94-120(4))

COMMENT: [Comments received from #4] [The comment refers to the section of the rule requiring written approval from the Department of the closure of a landfill.] This provision is overly broad; there are many landfills that have closed in the last hundred years. This provision leaves a local government vulnerable to hidden or unknown liabilities. There should be an exemption for landfills closed prior to a specific point in time, e.g. 1975, 1980, etc.

RESPONSE: In 1983 the Department was given explicit statutory authority to regulate closed landfills; at that time DEQ was also allowed to require closure permits for any landfills closing after January 1, 1980. The rule in question (340-94-120) is meant to apply to landfills that are under permit, not those that may have closed at some time in the distant past. To clarify regulatory intent, the Department is adding the January 1, 1980 date to this rule and to the corresponding rule for non-municipal land disposal sites (OAR 340-95-070).

Comment 9: Disposal of Excess Monies (in Financial Assurance Mechanism) (OAR 340-94-140(4)(e) and 340-94-140(8)(b) and (e))

COMMENT: [Comments received from #4] [The comment refers to the sections of the rule which states that the financial assurance plan must contain a proposal with provisions satisfactory to the Department for disposing of any excess monies received for financial assurance, and not use the funds for any purpose other than specified in the financial assurance plan. The rule also establishes how any such excess monies shall be used, e.g. to reduce rates for solid waste collection services.] This provision should not apply to counties that use general, unrestricted revenue to fund landfill

operation, development and closure. When such a county completes post-closure requirements, any established funds should be released to the county to be appropriated in any manner the local budget law permits. DEQ's role should not be to dictate use of these funds. Moreover, this provision appears to violate local budget and appropriation laws.

RESPONSE: The language in OAR 340-94-140(4)(e)(A) is taken directly from statute (ORS 459.273). This requires an applicant to "establish provisions satisfactory to the department for disposing of any excess moneys received or interest earned on moneys received for financial assurance." The statute further establishes two areas for which excess funds are to be used "to the extent practicable." The Attorney General's Office has informed DEQ that they do not see a conflict between the rule and any local requirements.

The proposed rules were not changed in response to this comment.

Comment 10: Department Determination that Additional Funding (for Financial Assurance) is Required

COMMENT: [Comments received from #4] The proposed rules allow DEQ to determine that closure and post-closure plans are not conservative enough, and to require additional funding. There is no protection to preclude DEQ from being overly conservative in requiring accumulation of funds and then mandating the extra funds be used for activities that the local government may not need or want. The permittee has no mechanism to appeal DEQ's actions. This is not the role DEQ should be assuming. This is another area in which a jury of professionals could be used. (The commenter clarified by phone on 10/21/94 that the reference was to the annual update requirement in OAR 340-94-140(6)(d). This requires a permittee to submit an annual certification to the Department that the "annual update" for closure and post-closure cost estimates has been completed, and that the financial assurance mechanism has been adjusted accordingly. The annual submittal to DEQ implies that DEQ could deem the amount of funds to be insufficient.)

RESPONSE: Permittees are required by law to "demonstrate evidence of financial assurance" and to "annually review and update the financial assurance" for closure and post-closure care. ORS 459.272(1) and (3). As the law does not specify how this is to be done, the rules spell out how this is to be "demonstrated." Namely, the permittee is to adjust cost estimates for inflation, and any changes in facility

> operations which affect the cost of closure or post-closure care; and adjust the amount of financial assurance accordingly. The permittee is then to certify that this has been done, and place the certification in the facility operating record as well as submit the certification to the Department. This is an **information** requirement, not an **approval** requirement. This provision was supported by the Department's Work Group. See Comment 9 above for discussion of the statutory requirement for disposition of excess financial assurance funds. The proposed rules were not changed in response to this comment.

Comment 11: Audits (OAR 340-94-140(8)(c))

COMMENT: [Comments received from #4] [Comment refers to stipulation that the permittee is subject to audit by the Department or the Secretary of State in order to determine compliance with financial assurance requirements.] Counties are required to have detailed annual audits by qualified CPAs, performed under the supervision of the Secretary of State. This provision should specify that such audits are sufficient, and that additional audits to satisfy the solid waste rules would be required only in the event of fraud, etc.

RESPONSE: The Secretary of State's Office has administrative rules which must be followed by cities and counties in performing an annual audit. These are submitted to the Secretary of State's Office, and are chosen randomly for additional checking. The DEQ rule provision allowing audits is not a change from existing rule. This audit provision is limited in scope, applying only to compliance with financial assurance requirements. It should not be duplicative of the audit performed under the Secretary of State's rules. The Department believes it needs to retain the ability to require an audit as part of its overall responsibility for assuring proper closure and post-closure procedures. The proposed rules were not changed in response to this comment.

Comment 12: Department as Beneficiary (OAR 340-94-145(2))

COMMENT: [Comments received from #4] The provision that the Department or a party approved by the Department shall be a beneficiary of the financial assurance is unnecessary, unwise and the intent is unclear. At most, DEQ should enjoy joint custody of the funds, and then only when proposed for expenditure on items not listed in the approved closure or post-closure plans.

RESPONSE: The Department was advised by its financial advisor and by the Attorney General's Office that DEQ or its designate should be named beneficiary of financial assurance mechanisms. This requirement protects the integrity of the funding mechanism by allowing the Department to have access to the funds if an owner/operator disappears. The Work Group on Financial Assurance agreed with this provision. (Note: a permittee is not allowed to make expenditures on items not identified in the closure or post-closure plans.) The Department is not proposing a change to the rule in response to this comment.

Comment 13: Expenditure of Trust Funds (OAR 340-94-145(5)(a))

COMMENT: [Comments received from #4] The provision that the permittee notify the Department in writing before any expenditure of trust fund moneys is made is unnecessarily burdensome, and should be changed to specify that the permittee shall notify the Department in writing only before expenditures for activities other than those identified in the adopted closure or post-closure plan.

RESPONSE: The Rulemaking Proposal contained a change from existing rule which is designed to make expenditures from a trust fund less burdensome. Namely, the Department would have 30 days (rather than 60) to respond to a notice of proposed expenditure; if no response is made within that time, the permittee could proceed with the expenditure. This gives the Department an opportunity to review the appropriateness of expenditures. This provision was supported by the Department's Work Group. See also Response to Comment 12 for note on allowable expenditures. No change is proposed in the rule.

Comment 14: Surety Bonds Guaranteeing Payment (OAR 340-94-145(5)(b))

COMMENT: [Comments received from #4] These bonds are probably not available, and if available in the future, the cost will likely be exorbitant.

RESPONSE: Surety bonds are an allowable mechanism should they be available and a permittee wish to use them.

Comment 15: Disallow Use of Corporate Guarantee (OAR 340-94-145(5)(f)

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COMMENT: [Comments received from #4] Public exposure [to future financial liabilities] through mismanagement, misappropriation or malfeasance may be high from privately operated facilities. The corporate guarantee should not be allowed as a financial assurance mechanism. It leaves the public vulnerable to financial reverses, bankruptcy, mismanagement, etc. by publicly or privately owned businesses. They should be required to use the same mechanisms as public agencies.

RESPONSE: A corporate guarantee is an allowable mechanism under the Environmental Protection Agency's Hazardous Waste Program (Subtitle C), on which the Department's financial assurance mechanisms were originally modelled. The Department believes that the various financial tests comprising the "corporate guarantee" provide sufficient security to protect the public interest. The proposed rules were not changed in response to this comment.

Comment 16: Use of Bond Rating for Corporate Guarantee (OAR 340-94-145(5)(f))

COMMENT: [Comments received from #3] The Department proposed modifying the corporate guarantee test to rely, partially, on Altman's Z-Score and Beaver's Ratio. Bond ratings are a frequently used and reliable indicator of the financial strength of corporate entities. There is a strong historic correlation between corporate defaults and previous downgrades of bond ratings. Bond ratings are simple to determine and easy to verify (unlike Altman's or Beaver's). The use of the latter would likely increase costs of compliance in developing the multiple "alternative ratios." A bond rating can be used for both a local government and corporate financial test; entities with highly rated bonds are quite unlikely to encounter shortterm financial distress. We believe it is appropriate to use a bond ratings-based approach.

RESPONSE: A bond rating usually applies to a specific security, not to the corporation itself; bond ratings are used to establish *price*. A bond rating in itself does not give a complete financial picture of the corporation (e.g. how much senior or junior debt there is). While a bond rating may give a reasonably good indication of a corporation's long-term viability, it does not measure the corporation's liquidity. If funds are needed for an unanticipated current problem, liquidity is a greater concern. If a bond rating basis is used, it is difficult to decide where to draw the line between acceptable and unacceptable ratings, and the permittee can use the basic, current financial test (assets, vs. assets, current and debt:equity ratios) without invoking Beaver or Altman, both of which are incorporated in EPA's ABEL (Ability to Pay)

> model. The Department believes that the Altman's Z-Score and Beaver's Ratio are not unduly complicated; they use quite standard formulas. From the point of view of demonstrating capability to provide financial assurance, they have the advantage of being less weighted to equity and more to cash flow, giving a better picture of the company. The proposed rules were not changed in response to this comment.

Comment 17: Account with the LGIP (OAR 340-94-145(5))

COMMENT: [Comments received from #4] The Department should consider adding another financial assurance mechanism for local governments. They should be allowed to establish an account with the State of Oregon Local Government Investment Pool (LGIP) under the joint custody of DEQ and the permittee. The LGIP is widely used by government agencies, is effectively administered, and less onerous than use of performance bonding.

RESPONSE: Use of the LGIP may offer advantages to local governments as a means of providing financial assurance, and the Department would encourage interested permittees to explore this option. The Department has contacted Oregon State Treasury officials about use of assets in the LGIP for financial assurance. They identified some unresolved questions as to how this might work in practice, including some legal issues. Under current rule a local government permittee could propose use of this use of the LGIP as an "alternative" financial assurance mechanism. The Department will be very willing to work with a permittee who proposes this. But because of the unresolved issues, the Department does not recommend changing the proposed rules to establish use of the LGIP as an outright approved mechanism.

Comment 18: Local Government Financial Test

COMMENT: [Comments received from #6] Our major concern is that the proposed rule does not include the "Local Government Financial Test" from 40 CFR Part 258, Subsection 258.74(f) ("Subtitle D"), as an allowable mechanism. It was our understanding that DEQ would adopt this to conform to EPA's rule. We have based our financial assurance plan on the criteria in that document.

RESPONSE: The Subtitle D Local Government Financial Test referred to was included in a proposed rule issued by the Environmental Protection Agency (EPA) on December 17, 1993. As of this date, EPA has not issued a final rule on this issue.

The Department cannot adopt a federal rule before it is finally promulgated. When EPA issues its final rule, the Department will consider adopting it by reference. In the meanwhile, a local government wishing to use the proposed Subtitle D Local Government Financial Test as a financial assurance mechanism may so propose to DEQ as an alternative form of financial assurance under OAR 340-94-145(5)(g). The proposed rules were not changed in response to this comment.

Comment 19: Definition of "Final Cover" (OAR 340-94-120(2))

COMMENT: [Comments received from #1] There is no definition of "final cover" in the rule. The DEQ rules specify one thing (three feet of compacted soil) while federal requirements are different. This is very important to estimating closure costs, and should be clarified.

RESPONSE: The rule as written is not incompatible with federal rules, and allows a Subtitle D-equivalent final cover. The determination of final cover is always made on a case-by-case basis. The Department believes that in some cases three feet of compacted soil (as required by current rule) are necessary. The question of final cover is technical and complicated. The Department believes it may be desirable to reconsider the "final cover" rule, but in the context of a separate rulemaking dealing with such matters. That would allow any Department proposal to be reviewed and commented on by the regulated community, rather than trying to formulate a quick fix now without the benefit of wider review. The proposed rules were not changed in response to this comment.

Comment 20: Reduction of Cost Estimates (OAR 340-94-140(6)(d)(B) and 340-95-090(6)(d)(B))

COMMENT: [Comments received from #1] A permittee should be able to reduce estimates of landfill closure as changing circumstances at the facility (e.g. filling cells) reduce the maximum financial exposure of the permittee.

RESPONSE: Subtitle D allows this. The Department agrees with the comment, and is changing the proposed rules for municipal and non-municipal landfills to reflect that.

Comment 21: Environmental Structured Settlements (OAR 340-94-145(5)(e))

COMMENT: [Comments received from #2] The "insurance policy" financial assurance mechanism is not very descriptive. It should be referred to as an "environmental structured settlement" or a "funding agreement contract." Such mechanisms are a development from the traditional structured settlement device used historically in the personal injury litigation arena and restructured to respond to long-term environmental liabilities. The rule should clarify that such an instrument is an option, rather than just referring to an "insurance policy."

RESPONSE: The Department has not received sufficient information to include this option outright as an approved financial assurance mechanism. However, a permittee could propose use of an "environmental structured settlement" as an alternative mechanism. The Department is prepared to consider the merits of such a mechanism. The proposed rules were not changed in response to this comment.

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Attachment F

State of Oregon DEPARTMENT OF ENVIRONMENTAL QUALITY

Rulemaking Proposal for Criteria for Financial Assurance for Closure and Post-Closure Care

Rule Implementation Plan

Summary of the Proposed Rule

The proposed rule would establish criteria and procedures for provision of financial assurance for closure, post-closure care and corrective action by permittees of solid waste land disposal sites. It would also require permittees to prepare two kinds of closure and post-closure plans. It affects all permittees of solid waste land disposal sites. Permittees of non-municipal land disposal sites and of municipal solid waste landfills not subject to the federal "Subtitle D" regulations may be exempted from the financial assurance requirement if they meet certain criteria.

Proposed Effective Date of the Rule

Upon filing. However the existing rule itself contains specific dates by which certain actions must take place (e.g. April 9, 1995 and October 9, 1995 when financial assurance must be demonstrated).

Proposal for Notification of Affected Persons

All permittees of solid waste land disposal sites will be notified of the rule's adoption and of its availability. The notification will include a summary of the procedures required to provide financial assurance.

Proposed Implementing Actions

The solid waste permit template will be changed to incorporate revised procedures and requirements.

DEQ's Solid Waste Permit Guidance document will be updated to include the amended requirements.

Most municipal solid waste landfill permittees subject to federal Subtitle D regulations should already have prepared a "worst case" closure plan and a "Subtitle D" post-closure plan. Very small facilities meeting federal criteria have until October 9, 1995 to prepare these plans. Closure and post-closure plans must be placed in the facility operating record. These facilities must provide financial assurance for closure and post-closure care by April 9, 1995 (October 9, 1995 for the "very small" facilities). This includes providing a copy of the financial assurance mechanism to the Department by those dates, together with a certification by the permittee that the financial assurance meets all applicable state and federal regulations. If a permittee wants to use an "alternative" form of financial assurance (i.e. one not specifically listed in the rule), it must submit a proposal describing that financial assurance mechanism to the Department for review and approval. This proposal must include certification by a qualified third party (such as a CPA) that the proposed mechanism meets all applicable state and federal requirements.

Municipal solid waste landfill permittees not subject to Federal Subtitle D requirements need to begin preparation of Final Engineered Site Closure and Post-Closure plans immediately, or establish a schedule with the Department for their preparation, together with associated financial assurance (unless exempted by the Department).

Non-municipal land disposal sites are required to prepare a conceptual "worst-case" closure plan and a conceptual post-closure plan by April 9, 1995. They must provide associated financial assurance by April 9, 1995, unless exempted by the Department.

All solid waste land disposal permittees must prepare Final Engineered Site Closure and Post-Closure plans five years before estimated final closure dates.

Financial assurance for corrective action must be provided if corrective action is required by the Department.

Permittees must prepare an annual update of their cost estimates for closure and post-closure care, and certify to the Department that the update has taken place and that their financial assurance mechanism has been updated accordingly.

Financial assurance mechanisms are not required to be reviewed or approved by the Department (except for alternative forms of financial assurance, as noted above), although the Department reserves the right to review these mechanisms.

It should be noted that the US Environmental Protection Agency (EPA) has recently published a proposed rule that would delay implementation of federal financial assurance requirements for municipal solid waste landfill owners and operators for one year -- until April 9, 1996. Should EPA adopt this rule, the Department would likely propose to the

Environmental Quality Commission to adopt similar dates in DEQ rule. This could affect both municipal and non-municipal permittees, as the Department has as a matter of policy in the past recommended identical effective dates for provision of financial assurance for both municipal and non-municipal permittees, based on dates set by EPA for municipal solid waste permittees. It is likely that any date extension would need to be done by temporary rule, as the EPA extension may be promulgated too close to the current effective date (April 9, 1995) to accommodate the regular DEQ rulemaking process.

Proposed Training/Assistance Actions

DEQ Solid Waste staff have been given summaries of the proposed new provisions; these will be further discussed during quarterly solid waste staff meetings.

DEQ Regional Solid Waste staff will work with existing solid waste permittees to further inform them of requirements and to develop schedules for preparation of needed closure and post-closure plans, and financial assurance plans.

As part of this rulemaking the Department has developed standard forms to be used in providing financial assurance. Permittees are required to use these forms.

The Department will prepare summaries of required procedures and make them available to affected persons. The Department is considering preparing a worksheet for use by third parties when third-party certification is required.

The Department will seek appropriate forums (such as workshops and conferences) to present information on financial assurance requirements to the regulated community.

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ATTACHMENT G

SOLID WASTE FINANCIAL ASSURANCE WORK GROUP MEMBERS

Paul Hribernick, Chair Black, Helterline Portland

Commissioner Rick Allen Jefferson County Courthouse Madras Carter Webb ESCO Corp Portland

Gary Barton Waste Control Systems, Inc. Corvallis

Lauri Aunan OSPIRG Portland

Rich Barrett Willamette Industries Albany

Doug Coenen Oregon Waste Systems Arlington

Bob Emrick (OSSI rep.) City Sanitary & Recycling Service McMinnville

Chip Pierce Public Financial Management Inc Portland

Ron Larvik Grande Ronde Recovery Center, Inc. LaGrande

Bruce McIntosh Sanifill Northwest Hillsboro, OR 97123

Craig Starr Lane County Land Management Eugene

(Financial Resource Persons:)

Chris Gram Preston Law Firm Portland

Duane Woods Heller Ehrman Portland

ENVIRONMENTAL STRUCTURED SETTLEMENTS CAN DRAMATICALLY REDUCE SUPERFUND SETTLEMENT COSTS

by Norman D. Carr

PORTLAND, OR --- After more than a decade of



investigations, studies, legal challenges, guarded responses to regulatory agencies and protracted litigation, thousands of potentially responsible parties (PRPs) are arriving at the same conclusion— It's time to get serious about settlement!

The PRPs have been forced to participate in lengthy and expensive remedial investigations and feasibility studies (RI/FS) under the threat

Norman D. Carr

of fines; administrative orders; punitive damages; and strict, joint and several liability. Finally, after completion of the RI/FS, settlement negotiations can commence. To expedite settlement, the PRP should have decided on a negotiation strategy and thoroughly investigated settlement options and funding sources so that a comprehensive settlement proposal can be offered at the first opportunity.

In all Superfund cases requiring long-term remedial actions, an environmental structured settlement should be considered.

An Old Idea - A New Application

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Since the mid '70s, the structured settlement has been used as an effective tool for resolving personal injury litigation outside the courtroom. It is a mechanism which focuses attention on a thorough needs assessment, rather than subjective demands and offers. When the long-term life care needs are determined, an annuity contract is purchased by the defendant to provide periodic payments over time to the injured party. The common result is a quicker and more satisfactory settlement which provides a secure and cost-effective funding vehicle, takes advantage of the time value of money and affords favorable tax treatment for both sides.

Structured settlements have revolutionized the tort industry, requiring all participating attorneys to re-evaluate their client responsibilities and to re-examine their settlement strategies. The environmental structured settlement is expected to have the same impact on the practice of environmental law as the traditional structured settlement has had in the tort arena.

The U.S. Justice Department and all of the federal tort claims agencies have embraced the structured-settlement concept and consistently utilize structured settlements to reduce their claims costs.

A 1988 Environmental Protection Agency study of existing

and alternative financing mechanisms found that structured settlements showed great promise for promoting Superfund settlements. A test case in the study showed that the structured settlement could have reduced the PRP's up-front expense by 34 percent at the Superfund site.

To date, only a handful of environmental structured settlements have been consummated. However, their use is expected to increase dramatically as the settling PRPs and their attorneys begin to discover the potential benefits they offer.

Potential Uses

The environmental structured settlement can be used as a creative settlement tool and a cost-effective funding mechanism for:

Hazardous waste cleanup actions;

- •Cleanups known as "corrective actions" under RCRA;
- •Financing the cost of closing RCRA business;
- •Environmental liability transfers in mergers and acquisitions;

•Insurance policy buyouts;

•Natural resource damage claims;

- Clean Water Act public works, such as building water treatment plants;
- •Clean Air Act emissions control devices;

Municipal settlements;

Toxic torts.

•International environmental disputes; and

Benefits

Some of the potential benefits of environmental structured settlements are as follows:

•Cost savings by virtue of the time value of money;

- Current income tax deductions allowed under some circumstances;
- •Reduced administrative and legal fees;
- Secure, flexible and cost-effective funding to assure regulatory agencies that agreed-upon funds will be available as required;
- •Improved PRP bargaining position;
- •Possibility of a more complete release;
- •Ouicker and more favorable settlement; and
- •Opportunity for favorable public relations.

Conclusion

It would be financially irresponsible for a PRP or an insurance company to agree to long-term remedial actions in a large environmental claim without first evaluating the potential benefits of an environmental structured settlement. In this regard, an early consultation with a qualified environmental structured settlement consultant is essential.

The settlement consultant's involvement should not be limited to providing quotations. Instead, he or she should be involved as active member of the defense team and interface with the PRPs, regulatory agencies, insurance companies, attorneys, and technical consultants throughout the settlement process.

In this fashion, the PRPs can take full advantage of the special knowledge and negotiating skills of the environmental structured settlement consultant.

(The writer is vice president-environmental affairs with Structured Settlements International, which has offices throughout the United States.)

ENVIRONMENTAL ACHIEVEMENT



BROWNING-FERRIS INDUSTRIES

WESTERN REGION

Deanna Mueller-Crispin Oregon Department of Environmental Quality Waste Management and Cleanup Division 811 S.W. 6th Avenue Portland, Oregon 97204

RE: Proposed Criteria for Financial Assurance for Closure and Post-Closure Care

Dear Ms. Mueller-Crispin:

Browning-Ferris Industries, Inc. ("BFI") appreciates the opportunity to comment on the above-referenced proposed rules. We congratulate the Department for its efforts to craft financial responsibility requirements that are both consistent with the Federal criteria and promote the equitable treatment of municipal and non-municipal solid waste land disposal sites. Our comments rule 340-94-145, concern proposed subpart (f) (corporate guarantee). In an earlier correspondence, which is referred to at page 8 of the August 29, 1994 background memorandum, we proposed the adoption of a bond ratings-based financial test/corporate guarantee mechanism. The Department has indicated that it "agrees that some relaxation of the current criteria may be appropriate, but disagrees with using the bond rating (approach)." Background Memorandum, at 8. We urge the Department to reconsider its position, for the following reasons:

(1) As the U.S. EPA has emphasized, bond ratings are a frequently used and reliable indicator of the financial strength of governmental and private entities:

(A) bond rating incorporates an evaluation of the (owner/operator's) financial management practices. Bond ratings are widely used as a measure of credit risk associated with a long-term general obligation debt instrument. The Agency has included bond rating measures in financial tests under other RCRA programs, including financial assurance requirements for subtitle C TSDFs and subtitle I underground storage tanks.

58 Fed. Reg. 68,353, 68,356 (Dec. 27, 1993) (preamble to proposed 40 C.F.R. Part 258 local government financial test/guarantee mechanism). The EPA's proposed Part 258 local government financial test would essentially focus on bond ratings, since only a small

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number of communities with ownership or operational interests in a MSWLF lack an investment-grade bond rating.

(2) The attached monogram demonstrates that there is a strong historic correlation between corporate defaults and previous downgrades of Moody's (as well as Standard and Poor's) bond ratings.

(3) In sharp contrast to the proposed "Beaver's Ratio" and "Altman's Z-Score", bond ratings are simple to determine and easy to verify. Unlike the proposed alternative ratios, environmental agencies, financial institutions, facility owners/operators, and governmental entities are all familiar with both the concept of bond ratings and their use. There would be no need for independent review and the submission of certifications by qualified third parties. Current bond ratings are publicly available, and can typically easily be obtained from local libraries.

(4) The adoption of recent SEC reporting requirements regarding long-term closure and post-closure obligations, and Statement No. 18 of the Governmental Accounting Standards Board ("Accounting for Municipal Solid Waste Landfill Closure and Postclosure Care Costs") (copy attached) will help to ensure that bond rating agencies carefully, and continuously, examine a company's fiscal status. BFI believes that a bond-ratings based test is appropriate for use by both the public and the private sectors.

(5) A financial test for use by either local governments or the private sector should be designed to be:

(a) Readily understood by the regulated community;

(b) Based on appropriate measures of credit risk and financial obligations; and

(c) To the maximum practicable extent, roughly "available" to all regulated sectors.

Accordingly, we submit that the use of a bond ratings-based approach would not only simplify the regulations but provide a ready yardstick for evaluating the ability of an owner/operator to satisfy its closure and post-closure care obligations. The proposal, with its use of multiple "alternative ratios" (ratios that apparently have not previously been utilized in any Federal or state waste management financial obligation rules), would likely increase the costs of complying with the regulation, as companies attempt to fashion the ratios to accommodate the test.

Simplicity is an important, but by no means the only, virtue of bond ratings. Bond ratings are, indeed, an excellent measure of an entity's financial status and serve as a valuable barometer of the potential for bankruptcy. There is strong evidence that firms with

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highly rated bonds are quite unlikely to encounter short-term financial distress. Similar evidence exists regarding rated municipal bonds.

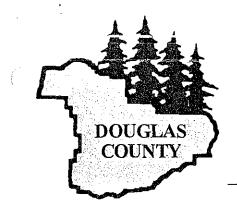
The adoption of a bond ratings based financial test/corporate guarantee would afford the Department an opportunity to facilitate the availability of a cost-effective means of demonstrating financial responsibility while ensuring that the interests of the Department and the general public are fully protected. We appreciate the opportunity to comment, and would be pleased to further discuss our recommended approach at any time.

Sincerely,

Mark E. Leary Manager, Regulatory Affairs

Enclosures

(Available on request)



PUBLIC WORKS DEPARTMENT

Administration 1036 SE Douglas, Room 219 Roseburg, Oregon 97470 (503) 440-4208

DIVISIONS

Administrative Services 1036 SE Douglas, Room 220 Roseburg, Oregon 97470 (503) 440-4526 Engineering and Construction 1036 SE Douglas, Room 304 Roseburg, Oregon 97470 (503) 440-4481 Operations and Maintenance 433 Rifle Range Road Roseburg, Oregon 97470 (503) 440-4268 Natural Resources 1036 SE Douglas, Room 306 Roseburg, Oregon 97470 (503) 440-4255

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October 4, 1994

Department of Environmental Quality Waste Management & Cleanup Division 811 S.W. Sixth Avenue Portland, OR 97204

Attention: Deanna Mueller-Crispin

Reference: Proposed Rulemaking, Financial Assurance

Gentlemen:

Thank you for the opportunity to comment on the proposed rules for financial assurance for closure and post-closure care. I share DEQ's concerns regarding closure and believe these rules, if more fully developed, will be a very effective environmental tool. If poorly developed or not fully thought through prior to adoption, the results will be burdensome and difficult to manage.

Please consider the following comments;

<u>General</u>

The Department of Environmental Quality rulemaking process is philosophically troublesome. Any rulemaking process where an agency, DEQ in this case, solicits



comments from affected entities on rulemaking proposed by that agency, and which then interprets those comments for the governing board, the Environmental Quality Commission in this case, is suspect. How can the affected entities be assured that their comments and concerns are being clearly interpreted and objectively presented?

Publicly and privately, DEQ makes much of the fact that Oregon rules are often more stringent than Federal law. I do not believe that most, possibly none, of the provisions that are more stringent serve the public interest. I urge you to reexamine each of these provisions objectively and carefully.

You have proposed a discount rate equal to the current yield of a five-year U.S. Treasury note. I believe it appropriate to specify a discount rate, but believe that the five-year U.S. Treasury note rate is not an accurate indicator, being too liberal in most cases. Few agencies consistently match U.S. Treasury note performance. In most cases, public agencies in Oregon are limited by statute to short-term investments for a term of less than two years. Most public agencies invest their funds in the Local Government Investment Pool (LGIP) administered by the State Treasurer. The rate on these short-term investments can vary dramatically with that on the five-year U.S. Treasury note, usually being lower because of the short-term nature of the investments. An index based on the LGIP average rate would be more conservative, and inherently more accurate because of the large number of regulated agencies using this investment mechanism.

Paragraph 340-94-110 (5) (e): Although I do not take exception to DEQ's need for access to permitted sites at reasonable times, I believe that a representative of the site operator should be allowed, or even required to accompany the visit, even on short notice. My firsthand experience is that, too often, the DEQ inspector is poorly prepared for a site visit, jumps to faulty conclusions, and frivolously asserts his regulatory authority, requiring substantial effort to respond on the part of the

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Page 2 of 6

permittee. In many cases, an owner's representative could provide sufficient firsthand information to satisfy the inspector's concerns. Access for inspection of a site should be regulatorily similar to OR-OSHA.

Paragraph 340-94-115 (3) (d) (B): DEQ's role as maker of rules, interpreter of rules, as well as arbitrator of requests to vary from the rules, by agencies or design professionals trying to use professional judgement, is logically unsound. Absolute power does, in fact, corrupt. I suggest that a jury of professionals to arbitrate differences of opinion between DEQ and the permittees would provide a more objective method of satisfying the intent of the rules in an impartial fashion. <u>Any</u> reference in any rule to "evidence demonstrating to the satisfaction of the Department" leaves the permittee in a very vulnerable position, too easily manipulated by DEQ in general or by an individual DEQ employee. A jury of professionals practicing in the field in question would be more cost and time effective, as well as add impartiality.

Paragraph 340-94-120 (4): Many, many landfills have been closed in the past 100 years. This provision is overly broad, and leaves the local entity very vulnerable to hidden, or unknown, liabilities. It is not productive, and places an unfair cloud on the financial stability of an agency for the rules to be overly broad. I suggest that landfills closed prior to a specific point in time, 1975, 1980, adoption of Subtitle D, etc. would be most appropriate.

Paragraph 340-94-140 (4) (e): This provision should not apply to counties, such as Douglas, that use general, unrestricted revenue to fund landfill operation, development and closure. When Douglas, or any similar county, meets whatever post-closure requirements necessary, the funds that have been established should be released to the county to be appropriated in any manner that local budget law permits. Succinctly, if closure and post-closure funds are developed from solid waste fees, then

Page 3 of 6

it <u>may</u> be appropriate for DEQ to have a voice in disposition of excess revenues. In the case where funds are not established through fees, it is clearly not the role of DEQ to dictate use of excess funds. Even more troublesome, the proposed rules allow DEQ to determine that closure and post-closure care plans are not conservative enough, that additional efforts, i.e. additional funding will be required. There is <u>no</u> protection for a permittee to preclude DEQ from being overly conservative or overly aggressive in accumulating closure and post-closure funds, then mandating that the funds be used for activities that the local government may not need, would normally not fund, or would otherwise not desire. This is simply not the role that DEQ should be assuming, and, again, the permittee has no mechanism to appeal DEQ's actions. This is another area in which a jury of professionals could be used.

Paragraph 340-94-140 (8) (b) (E): See my comment on 4 (e).

and C :

Paragraph 340-94-140 (c): The counties and other municipal corporations are required to have extremely detailed annual audits by qualified firms of certified public accountants, performed under the supervision of the Secretary of State. This provision should specify that the annual audit under the supervision of the Secretary of State is sufficient, and that additional audits to satisfy the solid waste rules would only be required in the event of fraud, etc., if even then.

Paragraph 340-94-140 (d): I do not practice law, however am of the opinion that this provision violates local budget and appropriation laws.

Paragraph 340-94-140 (e): See my comments on 4 (e).

Paragraph 340-94-145 (2): This provision is unnecessary, unwise and the intent is

unclear. At the very most, DEQ should enjoy joint custody of the funds, and then only when proposed for expenditure on items not listed in the approved closure or postclosure plans.

Paragraph 340-94-145 (5) (a): This provision is unnecessarily burdensome, and should be changed to reflect that the permittee shall notify the Department in writing before trust funds are expended for activities other than those identified in the adopted closure or post-closure plan.

Paragraph 340-94-145 (5) (b): These bonds are probably not available, and if available in the future, the cost will likely be exorbitant.

Paragraph 340-94-145 (5) (f): The proposed closure and post-closure care rules intend to safeguard the public from mismanagement, misappropriation or malfeasance by government officials. The public exposure is at least as high, however, from privately operated facilities, and I believe that corporate guarantee should <u>not</u> be allowed. In addition to creating an unlevel playing field, so to speak, the corporate guarantee leaves the public vulnerable to financial reverses, bankruptcy, mismanagement, etc. by publicly or privately owned businesses. I strongly suggest that these companies be required to bond in a similar fashion as public agencies.

Paragraph 349-94-145 (5) (g): Another alternative financial assurance mechanism that should be considered is to allow a government permittee to establish an account with the State of Oregon Local Government Investment Pool under the joint custody of DEQ and the permittee in accordance with 340-94-145 (2) as modified by my comments. Reiterating, the LGIP is widely used by government agencies in the State, is effectively administered, and much less onerous than use of performance bonding, etc.

Again, thank you for the opportunity to comment. Since I disagree with the concept of DEQ staff interpreting for the Environmental Quality Commission my concerns about proposed rulemaking, I have provided a copy of these comments directly to the Environmental Quality Commission and others, as appropriate.

Please contact me if you have any questions.

Sincerely,

Dave Leonard, P.E.

Director of Public Works

DML:DJW

cc: Oregon State Legislators (Douglas County) Environmental Quality Commission Douglas County Commissioners

assurance.djw

Page 6 of 6

Environmental Quality Commission cc:

The Wall Street Journa October 4, 1994

THE WALL STREET JOURNAL

Curbside Recycling Programs Divert Little Trash, From Dumps, Study Finds

BY JEFF BAILEY & A IF Reporter of THE WALL STREET JOURNAL Fooular curbside collection of recyclaie materials from homes diverts only a small portion of U.S. trash from dumps and incinerators; but is adding hundreds of millions of dollars annually to the nation's sanitation bills a new study concludes The study to be released fomorrow could be disturbing to the more than 6,100 is pulled out (5,656,853, 5,24 communities, that have, already, set, un recycling programs : Usually rolling out a second and sometimes a third fleet of trasfr rucks to collect separately garbage, rec lible items and yard waste "The study's findings indicate that others peans of collecting consumer items, such as drop-off and buyback bins, are much less expensive and surprisingly effective And the study also points out that retrieve tipf recyclable items from businesses is far more cost-effective; though many munici-s palities have focused the bulk of their recycling efforts on residences. Curbside programs, the most visible

element in the nation's growing recycling movement - covered st one third as of single family residences in the U.S. as of 1992 or 27 million homes, but were diverting just 25% of the nation's total trash volume for recycling More, traditional drop off and buyback programs, including paper drives beverage container, deposit; laws and other consumer scrap efforts, Collection of yard waste diverted another 3% from dumps and incinerators: And commercial recycling efforts accounted for 11% Overall in 1992, the U.S. generated about 203 million tons of socalled municipal solid waster and 21% of that was either recycled or composted The study was done by Franklin Associates Ltd. Prairie Village: Kan., a consulting firm that also regularly quantifies waste trends for the Environmental Protection Agency and for companies in the packaging and consumer-products industry About 20 big companies that are members of an industry-backed group,

Keep America Beaufinu, including Morris Cos, Coca Cola Co, Georgia Pa.; itation costs, Collection cost cific Corp and WMX Technologies Inc.; the economics of recycling; said William cific Corp and WMX Technologies inc.; Trankin, the concern s chairman Frankin, the concern s chairman Keep America Beautiful, including Philip endustry has been trustrated and bewiles sees Consumer (surveys, never thefess, indi-dered as recycling's popularity has grown a scale, that, many Americans continues bu even as the environmental and economic is believe that dump space is scirce; and that justifications for it have been sharply. questioned. Companies don't generally on a nomic benefits. Curbside collection is thus pose curbside programs, because con-svervoopular, seas terr sumers pay, not industry, they do oppose other outgrowths of recycling, Such asmandatory deposits on beverages containers, laws that require recycled content + or \$382 million a year nationally based on in packaging and products, and so-called is the 1992 level of programs. In addition to advanced disposal fees that are charged to se that? billions of dollars of processing and distributors, one packaging, that, doesn't meet recycling goals These recycling? movement sinitially boomed in the late 1980s based on the belief now known to be false that the nation/was_running_out_of_dump_space> Proponents also claimed that, recycling, would save money, if only markets for recyclable materials would develop In the past 18 months, huge amounts of papermaking capacity targeted, at old newspapers, cardboard and other paper, has come on line, providing markets: But the Franklin study makes clear that curbside collection is so expensive that, even, with favorable prices for waste items,

community recycling programs and to sanrecycling has big environmental and eco But even a very efficient curbside pro gram would add about \$1.50 to a monthly shousehold trash bill, the study estimates, manufacturing infrastructure is required to do actual recycling. California alone estimated if would require \$22 hillion of investment to reach its 50% recycling goal in 2000 States have set goals from 25% to 70% for recycling, and the study concludes that all but the bottom end of that range would be very difficult and expensive to reach

Oregon Waste Systems, Inc. Columbia Ridge Landfill & Recycling Center 18177 Cedar Springs Lane Arlington, Oregon 97812 503/454-2030 • FAX: 503/454-2133



A Waste Management Company

October 10, 1994

Deanna Mueller-Crispin Oregon Department of Environmental Quality Solid Waste Policy and Programs 811 S.W. 6th Avenue Portland, OR 97204

Subject: Comments on Proposed Rules; Financial Assurance for Closure and Post-Closure Care

Dear Deanna:

Thank you for the opportunity to have served on the Financial Assurance Work Group. Having had a chance to review the final version of the proposed rules, it is clear that all of the thoughts raised by the Work Group were seriously considered in developing this draft.

In general, the proposed rule is an outstanding effort, and those DEQ people involved should be complimented. We respectfully offer the following comments/suggestions based on our review of the most recent draft issued for public comment.

1. <u>Trust Fund Pay In Period</u>

We are concerned that permittees that opt for the use of a trust fund can build up the funds over the entire projected life of the site. This means that adequate funds would not be available for both closure and post-closure care in any contingency situation that would force premature closure prior to the forecasted site life. While this may meet with EPA's approval, it does not assure that the necessary funds are available when needed, which is the fundamental objective of this rule.

This concern is emphasized by a fairly simple consideration. Forms of financial assurance other than the trust fund approach <u>are</u> available in the marketplace to all permittees. Some permittees may choose not to pursue these alternatives because they do not meet financial standards required by the financing institution, or because these options appear too expensive. In either case, the financial fitness and wherewithal of the permittee comes into question. The proposed rule could have the effect of encouraging inadequately financed permittees to postpone recognition of their true liabilities, which is clearly counter to the intent of the rule.

However, if DEQ believes that the "pay-in" approach is acceptable, we suggest that the same standard be applied to other instruments. For example, if a permittee chooses to utilize a surety bond, then the required bond amount in any given year would be the same as the amount required to be in trust fund in that year, and would increase from year-to-year like the trust fund would. This would help to minimize a built-in financial advantage that could otherwise be enjoyed by permittees having marginal financial wherewithal that may represent the highest risk.

2. <u>"Worst-Case" Closure Performance Standard</u>

Sections 340-94-110 and 340-95-060 reference a "worst-case" closure scenario, which is then used to establish closure funding requirements. A key element in estimating this cost is to forecast the largest open (i.e. unclosed) area that will exist over the site life.

We propose that a performance standard be added to the rules that explicitly forbids a permittee from expanding the "unclosed" portion of the landfill to an area larger than that represented by the worst-case closure area. Our suggested approach would be to add the following (or equivalent):

New Sections: OAR 340-94-100(7)

"No person shall operate a disposal site having a total unclosed area that exceeds the area specified in the closure plan pursuant to 340-94-110(3)(c)."

OAR 340-95-050(7)

"No person shall operate a disposal site having a total unclosed area that exceeds the area specified in the closure plan pursuant to 340-95-060(3)(a)(c)."

This change would assist DEQ inspectors in verifying compliance and would emphasize the need to keep closure plans up-to-date.

Thank you for the opportunity to comment. If you have any questions, feel free to contact me.

Sincerely,

OREGON WASTE SYSTEMS, INC.

Doug Coenen Division President and General Manager

cc: Will Spears Gerry Preston, ODEQ OCT-11-94 TUE 15:20

DESCHUTES CTY PUB WORKS

FAX NO. 503+388+2719



Department of Public Works

61150 S.E. 27th St., Bend, 08,97702. (503) 388-6581 • FAX (503) 388-2719.

Deanna Mueller-Crispin Waste Management and Cleanup Division 811 S.W. 6th Avenue Portland, OR. 97204

Dear Deanna,

Deschutes County was not able to present their concerns regarding the "Criteria for Financial Assurance for Closure and Post-Closure Care" at the October 4th, 1994 hearings.

Please accept this letter wherein we express our concerns relating to the above mentioned rulemaking.

Our major concern is the deletion of the process as provided for by CFR 40, Part 258, Subsection 258.74, (f), entitled " Allowable Mechanisms, Local Government Financial Test". This County has prepared its Financial Assurance Plan based on the criteria as spelled out in this document. It was our understanding that DEQ would adopt this process for comformity to EPA's rulemaking.

Thank you for the opportunity to comment and please call if you have any questions.

Sincerely,

Al Driver Transportation and Solid Waste Director

c.c. Don Bramhall Gerry Preston Timm Schimke

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*ALSO ADMITTED IN WASHINGTON †ADMITTED IN WASHINGTON ONLY

OUR FILE NUMBER

December 1, 1994

HAND-DELIVERED

Environmental Quality Commission 811 S.W. Sixth Avenue Portland, OR 97204

Reference: Financial Assurance Work Group

Dear Members of the Commission:

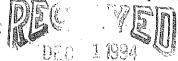
I served as Chair of the Department of Environmental Quality's Work Group on Financial Assurance. The Group met in early 1994 to help develop procedures to provide required financial assurance, and to integrate the federal and state requirements.

After thorough discussion of the multiple issues involved, the Work Group was in basic agreement with the rule as now proposed, with the "third-party certification" requirement restricted to alternative forms of financial assurance. As Chair of the Work Group, I recommend that you adopt the draft rules as presented.

> Sincerely, Paul R. Hribernick

PRH:jp prh009

> State of Oregon DEPARTMENT OF ENVIRONMENTAL QUALITY



OFFICE OF THE DIRECTOR