

TWENTY-FIRST MEETING

OF THE

OREGON STATE AIR POLLUTION AUTHORITY

The twenty-first meeting of the Oregon State Air Pollution Authority was called to order by the Chairman at 2:00 P.M. Thursday, April 10, 1958 in Room 36, State Office Bldg., 1400 S.W. 5th Avenue, Portland, Oregon. Those present were Carl E. Green, Chairman, Merle S. West, Vice Chairman, Mr. R. P. Dixon, Dr. Harold M. Erickson, members and Curtiss M. Everts, Jr., Secretary, Mrs. Catharine C. Barsch, Special Assistant Attorney General, R.E. Hatchard, Chief of the Air Pollution Control Section, J. L. Agee, Associate Sanitary Engineer, R. B. Percy and Edward Taylor, Chemists, State Board of Health.

MOTION RE: MINUTES OF PREVIOUS MEETING

The minutes of the twentieth meeting held December 16, 1957 were summarized by the Secretary. The Chairman declared that if there were no corrections the minutes would stand approved as prepared by the Secretary.

ADMINISTRATIVE RULES RE: Changes required by Chapter 717 Oregon Laws 1957

The Chairman stated that a year ago the Authority adopted administrative and technical rules and there was a need to consider revisions to the administrative rules under the provisions of Chapt. 717, Oregon Laws 1957. Mrs. Barsch reported that the Attorney General's office had prepared a model set of regulations which could be followed in the preparation of revisions of the Authority's existing regulations.

MOTION RE: Changes required by Chapt. 717 OL-1957

It was MOVED by Mr. West and seconded by Mr. Dixon and carried that the Authority hold a public hearing at its next regular meeting to consider the adoption of the revised administrative rules and regulations in accordance with the provisions of Chapt. 717 O.L. 1957 and that public announcement of such hearing be made.

THE DALLES RE: Harvey Aluminum Company

The Chairman requested Mr. Agee to report on the status of the Harvey Aluminum Company's plans for installing control equipment in their aluminum reduction

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plant now under construction at The Dalles.

Mr. Agee reported that the final plans and specifications of the fume disposal system have been received and reviewed by the staff and that a conference was held with Dr. Rochon and Mr. Rene Legault concerning the operation of this equipment. Mr. Agee stated that procedure for testing and determining the fluoride removal efficiency of this equipment was outlined by the company representatives. He explained that background samples have been collected to determine natural fluoride levels in The Dalles area for the past three years. He recommended that conditional approval be granted for the control equipment providing the company will agree to:

1. Comply with the regulations of the Oregon State Air Pollution Authority.
2. Make periodic stack sampling and analyses to determine the fluoride discharge.
3. Submit periodic reports to the State Air Pollution Authority.

The Chairman asked Mr. Agee if background values had been determined.

Mr. Agee replied that over 600 samples had been collected and most of the background fluoride concentrations were within 0.1 to 1.0 part per billion.

The Chairman asked Dr. M. Holmes if he had a report to present at this time.

Dr. Holmes stated that he would delay his report until the next meeting.

The Chairman asked if a representative of Harvey Aluminum was present.

Mr. Legault, General Superintendent, Harvey Aluminum Company stated that his company has conducted simulated tests, that the analyses would be completed soon and that the data could be presented at the next meeting of the Authority. He explained that the simulated test run will approximate the working conditions and should give a clear picture of the fluoride removal efficiency. Mr. Legault concluded by saying that his company will cooperate with the Authority and would have the best control equipment available.

MOTION RE: The Dalles Harvey Aluminum Company

It was MOVED by Dr. Erickson and seconded by Mr. West and carried that plans and specifications for the air pollution control installation at Harvey Aluminum

Company be given conditional approval with the understanding that the company will comply with regulations, make periodic stack sampling tests and submit periodic reports to the Authority.

NORTH ALBANY RE: Western Kraft Corporation

The Chairman requested Mr. Merryman to report on the control of air pollution at the Western Kraft Corporation's mill.

Mr. Merryman stated that the company had completed installation of the blow heat recovery system in December and that the staff had completed some area surveys since that time. He explained that area odor survey data was needed to indicate what change had occurred in the odor conditions near the Western Kraft mill.

He stated that the data obtained thus far is inconclusive since the weather conditions during the surveys had favored the dilution and dispersion of the mill effluents.

Mr. Merryman reported that the company had developed a stack sampling program to measure the concentration of several odorous compounds. He stated that some data was obtained before the blow heat recovery system was installed and after completion of the project. He stated that the information from the company's technical staff showed a reduction of 63% in the hydrogen sulfide concentration, 33% in methyl mercaptans and 68% in the organic solubles which would include the dimethylsulfide and dimethyl disulfide fractions. He stated that the staff recommended that the area odor surveys be continued; that the company continue the program of measuring the major mill effluents and that progress reports be submitted at the next meeting.

The Chairman asked Mr. Robert O. Beatty, Ass't to the President, Western Kraft if he wished to present a report.

Mr. Beatty replied that Mr. Merryman's report summarized the present status and that the company intended to continue the stack studies.

Mr. West stated that he passed the plant driving to Portland for this meeting and there was still quite an offensive odor in the air.

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Mr. Beatty replied that only one ppm would be just as offensive to the human nose as a great deal more. He further stated that this concentration could be reduced but that they would never reach the level of complete satisfaction for every human nose.

The Chairman stated that the Authority would accept these progress reports and that it appeared the company has been making progress.

MULTNOMAH COUNTY RE: Pacific Carbide and Alloy Company

The Chairman requested Mr. Percy to report on the Pacific Carbide Company's dust emission problem.

Mr. Percy stated that a plant survey was made in January when the calcium carbide electric furnace was shut down for maintenance. He reported that air samples were collected at a station on the roof of Morrison Oil Company from March 11-15, at a time when Pacific Carbide was also measuring their stack discharges.

Mr. Percy stated that the samples showed a suspended particulate concentration of 514 micrograms per cubic meter for the 50° arc of wind direction towards the plant and contained 34.2% lime (CaO). He explained that the filter from the high volume sampler which operated when the wind direction was away from the plant showed suspended particulates of 221 micrograms per cubic meter with 10.3% lime content. He stated that the results obtained when the wind was toward the plant are comparable to sampling results during August 1957. The suspended particulates for the opposite direction are higher than those obtained in August 1957 and this was probably caused by the changeable wind conditions in the area at this time of the year. He stated that the fallout samples collected during the March sampling period were comparable to those collected during the past and averaged 104 tons per square mile per month with an average calcium oxide of 23.5%. He pointed out that fallout samples collected during the plant shut down period showed a substantial decrease in weight and lime dust content. Mr. Percy stated that the staff recommended that a summary report be prepared including the company stack sampling data; that the company sample the discharge from other dust sources and that the company should continue development of additional

electric furnace dust control facilities.

The Chairman asked if a representative of the company was present.

Mr. Thomas J. Waters, Manager, Pacific Carbide, stated there was nothing further to report as Mr. Percy had covered it well. He added that their stack tests showed that they are able to reduce the electric furnace emissions by 83%; however, there will be more sampling and further testing. He stated that they will continue to make progress and will keep in close touch with the Authority.

The Chairman asked Mr. Hatchard if the staff had any additional comments.

Mr. Hatchard replied that the staff would like to work further with the company using the information obtained from area sampling. He stated that one problem was that Pacific Carbide's production now was less than the normal production periods.

The Chairman requested the company to continue working with the Authority's staff and that the Board would accept this as a progress report and would expect reports of further developments.

PUBLIC HEARING RE: Proposed Regulations for Open Burning Refuse Dumps

The Chairman stated that the public hearing would now be held to consider the proposed open burning refuse dump regulations; that the proponents and opponents would have an opportunity to present statements and give verbal testimony. He stated that the members of the Authority would not take final action today in view of a request from the League of Oregon Cities requesting more time to study the proposals.

The Secretary stated that copies of the proposed regulations had been sent to all parties who had indicated an interest at previous Authority meetings and to County Health Departments.

Mr. Joseph Hunt, Vector Control Specialist, Communicable Disease Center, US PHS, now assigned to the Umatilla County Demonstration Project, showed a series of colored slides which revealed typical open burning refuse disposal problems created in Oregon, Idaho and California. He explained the sanitary landfill dis-

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posal method outlining the various types of operations, equipment used and the lack of air pollution problems resulting from sanitary landfill. He answered questions regarding the cost comparison between sanitary landfill, complete incineration and open burning, disposal of lumber, brush and logs on sanitary landfill, methods of operation on low land, control of odors and the foundation conditions for building on former sanitary landfills.

Miss Carlie Gilstrap stated that the complainants in North Portland had been waiting for two years for appropriate action to control the smoke, odors and flyash from open burning refuse dumps. She indicated that some improvement had resulted from the Authority's action this spring but pointed out the problem was far from solved. She reported that her group has been in contact with the city and county officials but that little progress had been made as yet. She expressed her concern regarding the possible effect of excessive air pollution upon the increasing lung cancer and other human health aspects and requested the Authority members to take action to protect Oregon communities from the unnecessary air pollution from burning refuse dumps. She then narrated a series of colored slides which showed instances where refuse dumps north of Portland were burning during February to April 1958.

Mr. Walter A. Holt, representing the Oregon Centennial Commission, stated that there was a smoke problem in the area and that their organization hoped corrective action would be taken.

Clara Shaw, Rt. 2, Hillsboro, stated that the practice of open burning of refuse has to be changed and that satisfactory methods must be implemented that will protect our communities.

The Chairman stated that the Authority would now like to hear from those speaking against the proposed regulations.

Dean Bryson, Attorney, representing the Sanitary Truck Drivers Local No. 220, stated that the union was not opposed to a ban upon open burning but was concerned about the over-all problem. He stated that he believed something must be done

but questioned the provision in the proposed regulation that would allow the householder to burn refuse on their property. He suggested that the proposed regulations ought to consider segregating the types of refuse and also include consideration of the total cost to the community for changing from present disposal methods.

Mrs. Ezra Cook representing the City Sanitary Service, McMinnville, Oregon stated that about four years ago the McMinnville dump had been relocated to a site approximately seven miles west of the city and that their present operation consists of intermittent burning and covering. He pointed out that they have no problems since the nearest resident is about a mile away and he requested the Authority to give individual consideration to refuse dump operations which would be preferable to a blanket prohibition.

Mrs. George Heryford, Sanitarian, Lincoln County, stated that refuse disposal methods are necessarily individualized and that due to the rainfall and soil conditions on the coast the sanitary landfill procedure would not be practical.

E. N. McKinstry, City Engineer, North Bend, stated he agreed with the intent of the proposed regulations but if adopted would cause some difficult problems. He explained that the city of North Bend's refuse dump required burning because the strong prevailing trade winds would spread the refuse downwind.

Mr. Gordon Burt, City Engineer of Portland, submitted pictures of Portland's refuse disposal site and explained the operation of the city incinerator and modified landfill. He reported that since the Authority's action this spring the city has been reducing the amount of open burning through increased use of the incinerator. He pointed out that their problems involve the disposal of several thousand gallons of waste oil daily, large quantities of scrap lumber, tree stumps and also a lack of earth covering. He stated that the 1959 budget included a request for eight more employees and equipment purchases such as a chipper and cut-off saw and funds for purchasing excess earth fill. He explained that the Refuse Bureau could provide the type of refuse disposal that the citizens of

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Portland are willing to pay for.

Mr. Gene Fields, Sanitarian, Coos County, indicated that sanitary landfill methods would not be adaptable to many locations along the coast. He also questioned the provisions in Section 4.4 which gave the county health officer the responsibility for approving a variance in the open burning prohibition if it was in the public interest to protect undue hardship. He commented that any change in a city's disposal methods could be considered undue hardship and this section would be difficult for the health officer to administer. He suggested that other refuse disposal methods such as the Dano composting system may provide the answer.

The Chairman requested Mr. Hatchard to comment on questions raised during the discussion.

Mr. Hatchard stated that several references had been made to the California activities on refuse disposal to control air pollution. He reported that the first regulation of the San Francisco Bay Area Control District which includes six counties prohibited the open burning of all refuse, excepting for household rubbish, agricultural practices, and fireman training, and was adopted in October 1957.

He stated that the Los Angeles Control District began the control of refuse air pollution problems in 1948 when a regulation was adopted prohibiting open burning refuse dumps throughout the county and that other outdoor burning regulations had been adopted subsequently. He stated that the final step was taken in October 1957 when burning with the individual householder's single chamber incinerator was outlawed. The main point is to recognize that all air pollution control programs eventually must prohibit open burning. He pointed out that several references had been made during the discussion to the problem that may occur since the proposed regulations allow the householder to burn rubbish. He explained that rubbish does not include garbage or similar organic material.

The Secretary stated that the following letters had been received concerning the proposed regulations.



April 3, John C. Stoner, Sanitarian  
 Lane County Health Dept.  
 April 3, Lester M. Bennett, Sanitarian  
 Yamhill County  
 April 7, Mr. Ezra Cook  
 McMinnville, Oregon  
 April 7, A. W. Westfall, Sanitarian  
 Tri-County Health Dept.  
 April 4, Mr. Kenneth T. Adams  
 Mayor of Empire  
 April 7, I. Hartley,  
 Mayor of North Bend  
 April 8, Dean F. Bryson, Attorney  
 April 8, Edward Brown, City Recorder  
 Powers, Oregon  
 April 9, Herman Kehrli, Executive Secretary  
 League of Oregon Cities  
 April 9, John H. Fasnacht, Mgr. of Utilities  
 City of Bandon  
 April 9, Ben E. Nicols, City Administrator  
 City of Myrtle Point  
 April 7, George J. Spady  
 Coos Bay Sanitary Service  
 April 10, Coos County Health Dept.

The Chairman stated that the comments, suggestions, recommendations would be reviewed and the matter would be considered at the next regular meeting of the Authority.

ADMINISTRATIVE MATTERS

The Chairman requested the Secretary to read the new complaints received.

The Secretary read a complaint against Hopkins Wrecking Yard submitted by Mrs. Yoes.

The Chairman asked if the staff could investigate the matter.

Mr. Hatchard replied that the staff should investigate this complaint along with several others involving the burning of wrecked automobile bodies.

The Chairman directed the staff to investigate the complaint and confer with all

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other parties concerned and report back to the Authority.

The Secretary read a complaint from the City of North Bend, signed by Mr. Herrington regarding open burning by Weyerhaeuser Timber Company.

The Chairman referred this to the staff for investigation when other activities permit.

The Secretary read a complaint dated 12-29-57 from Mrs. Emma Burk regarding emissions from the Chipman Chemical Company's plant in Guilds Lake, Portland.

The Chairman directed the staff to continue its work on this matter.

#### PLANNING & ZONING AGENCIES PERFORMANCE REGULATIONS

The Chairman requested Mr. Agee to report on the development of industrial park regulations to prevent air pollution.

Mr. Agee stated that the Air Pollution Authority has been requested by the Bureau of Municipal Research to recommend performance standards which may be applied to industrial park developments. The Bureau has indicated that a number of cities have requested such information to be used by their planning commissions. This approach to air pollution control is somewhat different than has been applied in Oregon to date. The Authority has approached air pollution control on an area air quality basis. Performance standards as such have not been employed to date. The staff has initiated a review of the literature and has tentatively developed performance standards as the Bureau requested. Mr. Agee stated that the staff expects to continue in this work to develop and test additional standards in the future.

The Chairman asked Mr. Agee how much more time was needed on this project.

Mr. Agee replied that this was an extensive study and would require a full scale investigation.

Mr. Hatchard stated that the time when the staff would have something definite would be determined on the success of getting an over-all research operation completed.

The Chairman instructed the staff to continue the work and to present the recommendations to the Authority for consideration.

BUDGET 1959-1961

The Secretary stated that the present staff consists of 4 engineers, 2 chemists and one stenographer; that the Authority is requesting one additional field representative be added to the budget for 1959-61. He stated this person would make initial field investigations that do not require engineering skill so the engineers can be used on more urgent work.

The Chairman asked if the budget had been submitted to the State Board of Health members.

The Secretary replied that it was still under discussion.

Dr. Erickson added that preliminary conferences had been held and the requests would be considered on May 8, 9, and 10th, by the members of the Board of Health and that he would support the request for the additional staff member.

Mr. Dixon stated he believed it right to have a field man do certain work if it would free the engineer for performing more technical duties.

The Chairman stated that those who attended the Authority meetings recognized that the Air Pollution Authority's staff has more than it can do; there are more requests for work and field trips than is possible for a staff of this present size; and that he thought it was appropriate to ask for the additional man to help on the field work.

MOTION RE: Budget 1959-1961

It was MOVED by Mr. Dixon and seconded by Mr. West and carried that a request be made for an additional field man for the Air Pollution Authority's 1959-1961 biennial budget.

There being no further business the meeting was adjourned at 4:50 P.M.

The next regular Air Pollution Authority meeting was set at the call of the Chairman.

Respectfully submitted,

*Curtiss M. Everts, Jr.*  
CURTISS M. EVERTS, Jr. Secretary  
Oregon State Air Pollution Authority

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