DEQ Art Glass Permanent Rule Fiscal Impact Estimate for proposed rule- Tier 2 CAGM

One-time costs

Annual costs

\$324,000

\$27,000

\$415,000 \$82,000

Insta	metal HAPs If	on all furnaces using using chrome: ng to develop daily & ax usage max usage limits timates high	
Permitting costs NESHAP 6S applies? Needs Title V permit because of 6S Cost of Title V application	metal HAPs If rce test & modeling annual mandal man	using chrome: ng to develop daily & ax usage max usage limits timates high	
Permitting costs NESHAP 6S applies? Needs Title V permit because of 6S Cost of Title V application	rce test & modeling annual manual man	ng to develop daily & ax usage max usage limits timates high	
Permitting costs NESHAP 6S applies? Needs Title V permit because of 6S Cost of Title V application	annual m Then follow the r Cost Es Iow	ax usage max usage limits timates high	
NESHAP 6S applies? Needs Title V permit because of 6S Cost of Title V application	Then follow the r Cost Es low	max usage limits timates high	
NESHAP 6S applies? Needs Title V permit because of 6S Cost of Title V application	Cost Es	timates high	
NESHAP 6S applies? Needs Title V permit because of 6S Cost of Title V application	low	high	
NESHAP 6S applies? Needs Title V permit because of 6S Cost of Title V application	Y		
NESHAP 6S applies? Needs Title V permit because of 6S Cost of Title V application		/	
Needs Title V permit because of 6S Cost of Title V application			٦
because of 6S Cost of Title V application	Y		-
Cost of Title V application		/	
consultant to prepare)	\$25,000	\$100,000	If a facility needs a Title V due to NESHAP 6S, that is independent of this art glass rule, so this cost isn't included in the totals.
Incremental extra cost of Title V application due to are glass rule	\$0	\$5,000	
Annual DEQ Title V permit costs	\$10,310	\$11,510	If a facility needs a Title V due to NESHAP 6S, that is independent of this art glass rule, so this cost isn't included in the totals.
Control Device Costs			-
Install baghouse	\$250,000	\$300,000	Assume install of 1 additional baghouse, above what would have been installed due to NESHAP 6S.
Annual operation	\$15,000	\$70,000	Electricity, bag replacement etc
Reporting Costs	,	· ,	
One-time source test to measure Cr6 emissions when making products containing Cr3 or Cr6	\$60,000	\$65,000	Assume this requires 16hr runs. At some facilities, may be able to run concurrently with 99% control efficiency test, reducing cost. \$10-15k if test can be done in 1-3hr runs. If 16hr runs, \$65k. If 4-day runs, \$100k.
One-time source test to demonstrate 99% PM control efficiency	\$4,000	\$15,000	Assume length of run depends on detection limits, does not have to be entire production run to show capture efficiency.
Modeling Costs			_
One-time modeling to find m acceptable so	ax production rat ource impact leve		
AERSCREEN model only	\$10,000	-	
AERSCREEN followed by AERMOD model	-	\$30,000	
Total Costs			

DEQ Art Glass Permanent Rule Fiscal Impact Estimate for proposed rule- Tier 1 CAGM

Tier 1 (Northstar, Trautman and Glass Alchemy)									
Do 1 of these at all furnaces:									
Requirements summary	Install control device								
	Source test & modeling to show impact below limits Request permit condition to not use metal HAPs								
	Cost Estimate								
	If doing source test If installing control				If taking permit condition				
		eling only		vice	to stop using				
	low	high	low	high	low	high			
Permitting costs	T .								
NESHAP 6S applies?	N		N		N				
Rule would require facility to get new permit	Yes, ACDP		Yes, ACDP		Yes, ACDP				
Application Fee	\$7,200	\$7,200	\$7,200	\$7,200	\$7,200	\$7,200			
Consultant to prepare application	-	-	-	-	-	-			
Annual Permit Fee (applies at									
time of application and each year	\$4,608	\$4,608	\$4,608	\$4,608	\$4,608	\$4,608			
after)									
Control Device Costs			\$250,000	\$200 000					
Install baghouse Annual operation (electricity, bag	-	-		\$300,000	-	-			
replacement, etc)	-	-	\$15,000	\$70,000	-	-			
Reporting Costs									
Annual cost to monitor and report			¢42.000	¢42.000					
on baghouse to DEQ	-	-	\$12,000	\$12,000	-	-			
Source Testing Costs	1								
One-time source test to measure									
metal emissions including total	\$15,000	\$25,000	-	-	-	-			
Cr. (Total Cr can be used as a									
proxy for Cr6) One-time source test to measure									
Cr6 emissions when making	Φ0	405.000	If Tier 1 and using						
products containing Cr3	\$0	\$65,000		evice, don't est for Cr6					
(optional)			nave to to	est for Cro					
One-time source test to				•					
demonstrate 99% PM control	-	-	\$4,000	\$15,000	-	-			
efficiency Modeling Costs									
One-time modeling to find	d max prod	uction rate	that results	s in accenta	ble source imp	act level			
AERSCREEN model only	\$10,000	-	-	-	-	-			
AERSCREEN followed by	4 10,000	# 00 000							
AERMOD model	-	\$30,000	-	-	-	-			
Cost of reduced production									
stopping production of materials						roducts contain			
containing Cr6 (required to take	unknown	unknown	-	-		There may not le substitute			
source test + modeling exemption)						Facilities may			
oxompton)	unknown	unknown	-	-		se out one or a			
reduced production if source					few metal HAF	es but are likely			
testing shows it's needed to meet						source test &			
receptor conc limits						nstallation of a			
Total Costs					control	device.			
One-time costs	\$17,200	\$102.200	\$261,200	\$322,200	\$7,200	\$7,200			
Annual costs						lity profit (?)			
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