

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

Tier 1 (Northstar, Trautman and Glass Alchemy)						
Requirements summary	Do 1 of these at all furnaces: 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 and modeling only		If installing control device		If taking permit condition to stop using metal HAPs	
	low	high	low	high	low	high
Permitting costs						
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 after)	\$ 4,608	\$ 4,608	\$ 4,608	\$ 4,608	\$ 4,608	\$ 4,608
Control Device Costs						
install baghouse	-	-	\$250,000	\$300,000	-	-
annual operation	-	-	\$15,000	\$70,000	-	-
Reporting Costs						
Annual cost to monitor and report on baghouse to DEQ	-	-	\$12,000	\$12,000	-	-
Source Testing Costs						
One-time source test to measure metal emissions including total Cr. (Total Cr can be used as a proxy for Cr6)	\$15,000	\$25,000				
One-time source test to measure Cr6 emissions when making products containing Cr3 (optional)	\$0	\$65,000	If Tier 1 and using control device, don't have to test for Cr6.		-	-
One-time source test to demonstrate 99% PM control efficiency	-	-	\$4,000	\$15,000	-	-
Modeling Costs						
One-time modeling to find max production rate that results in acceptable source impact level						
AERSCREEN model only	\$10,000	-	-	-	-	-
AERSCREEN followed by AERMOD model	-	\$30,000	-	-	-	-
Cost of reduced production						
stopping production of materials containing Cr6 (required to take source test + modeling exemption)	unknown	unknown	-	-	About 1/2 of products contain metal HAPs. There may not be workable substitute formulations. Facilities may choose to phase out one or a few metal HAPs but are likely to choose source test & modeling or installation of a control device.	
reduced production if source testing shows it's needed to meet receptor conc limits	unknown	unknown	-	-		
Total Costs						
one-time costs	\$32,200	\$127,200	\$261,200	\$322,200	\$7,200	\$7,200
annual costs	\$4,608	\$4,608	\$31,608	\$86,608	50% of facility profit (?)	