

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

Tier 2 (Bullseye and Uroboros)		
Requirements summary	Install control device on all furnaces using metal HAPs If using chrome: Source test & modeling to develop daily & annual max usage Then follow the max usage limits	
	Cost Estimate	
	low	high

Permitting costs

NESHAP 6S applies?	Y	
Needs Title V permit because of 6S?	Y	
Cost of Title V application (including DEQ fees + consultant to prepare	\$25,000	\$100,000
Incremental extra cost of Title V application due to art 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.

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Control Device Costs

install baghouse	\$250,000	\$300,000
annual operation	\$15,000	\$70,000

Assume install of 1 additional baghouse, above what would have been installed due to NESHAP 6S.
electricity, bag replacement etc

Reporting Costs

Annual cost to monitor and report on baghouse to DEQ	\$12,000	\$12,000
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Source Testing Costs

One-time source test to measure Cr6 emissions when making products containing Cr3 or Cr6	\$60,000	\$65,000
One-time source test to demonstrate 99% PM control efficiency	\$4,000	\$15,000

Assume this requires 16 hr runs. At some facilities, may be able to run concurrently with 99% control efficiency test, reducing cost.
Assume length of run depends on detection limits, does not have to be entire production run to show capture efficiency.

\$10-15k if test can be done in 1-3 hr runs. If 16hr runs, \$65k. If 4-day runs, \$100k.

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

Total Costs

one-time costs	\$324,000	\$415,000
annual costs	\$27,000	\$82,000