

NESHAP for Source Categories: Generic Maximum Achievable Control Technology Stand

Burden Item	(A) Person-hours per occurrence ^a	(B) No. of occurrences per source per year ^b	(C) Person-hours per source per year (C=AxB)
1. Applications	N/A		
2. Survey and Studies	N/A		
3. Reporting Requirements			
A. Familiarize with Rule Requirements ^e	See 4A		
B. Required Activities for PC, AMF, AR, HF ^e	See 4C		
C. Create Information for PC, AMF, AR, HF ^e	See 4C		
D. Gather Information for PC, AMF, AR, HF ^e	See 4C		
E. Write report			
Initial notification requirements for pressure relief devices			
Polycarbonates (PC)	4	1	4
Acrylic and Modacrylic Fibers (AMF)	4	1	4
General initial notification requirements ^{e, f}			
Polycarbonates (PC)	52	1	52
Acrylic and Modacrylic Fibers (AMF)	52	1	52
Acetal Resins (AR)	52	1	52
Hydrogen Fluoride (HF)	52	1	52
Startup, shutdown and malfunction reports ^g			
Polycarbonates (PC)	N/A		
Acrylic and Modacrylic Fibers (AMF)	N/A		
Acetal Resins (AR)	2	1	2
Hydrogen Fluoride (HF)	2	1	2
Periodic reports ^h			
Polycarbonates (PC)	13.5	2	27
Acrylic and Modacrylic Fibers (AMF)	15.5	2	31
Acetal Resins (AR)	8	2	16
Hydrogen Fluoride (HF)	8	2	16
Leak detection and repair reporting ⁱ			
Polycarbonates (PC)	12	2	24
Acrylic and Modacrylic Fibers (AMF)	12	2	24
Acetal Resins (AR)	8	2	16
Hydrogen Fluoride (HF)	8	2	16
REPORTING SUBTOTAL (Rounded)			
4. Recordkeeping Requirements			
A. Familiarize with Rule Requirements			
Polycarbonates (PC)	4	1	4
Acrylic and Modacrylic Fibers (AMF)	4	1	4

Acetal Resins (AR)	4	1	4
Hydrogen Fluoride (HF)	4	1	4
B. Plan activities			
Polycarbonates (PC)	40	1	40
Acrylic and Modacrylic Fibers (AMF)	40	1	40
Acetal Resins (AR) ^e	40	1	40
Hydrogen Fluoride (HF) ^e	40	1	40
C. Implementation activities			
Material determinations ^e	N/A		
Control equipment inspections			
a. Tanks			
Polycarbonates (PC)	N/A		
Acrylic and Modacrylic Fibers (AMF)	2	12	24
Acetal Resins (AR)	2	12	24
Hydrogen Fluoride (HF)	N/A		
b. Closed-vent systems			
Polycarbonates (PC)	2	2	4
Acrylic and Modacrylic Fibers (AMF)	2	2	4
Acetal Resins (AR)	2	2	4
Hydrogen Fluoride (HF)	2	2	4
Control equipment leak monitoring			
a. Cover vented to control device			
Polycarbonates (PC)	1	2	2
Acrylic and Modacrylic Fibers (AMF)	1	2	2
Acetal Resins (AR)	1	2	2
Hydrogen Fluoride (HF)	1	2	2
a. Closed vent system			
Polycarbonates (PC)	1	2	2
Acrylic and Modacrylic Fibers (AMF)	1	2	2
Acetal Resins (AR)	1	2	2
Hydrogen Fluoride (HF)	1	2	2
Control devices			
a. Initial requirements design analysis, performance test			
Polycarbonates (PC) ^e	80	1	80
Acrylic and Modacrylic Fibers (AMF)	80	1	80
Acetal Resins (AR) ^e	80	1	80
Hydrogen Fluoride (HF) ^e	80	1	80
b. Operate and maintain CMS			
Polycarbonates (PC)	8	12	96
Acrylic and Modacrylic Fibers (AMF)	8	12	96
Acetal Resins (AR)	8	12	96
Hydrogen Fluoride (HF)	8	12	96
Pressure relief devices			
Polycarbonates (PC)	2	1	2
Acrylic and Modacrylic Fibers (AMF)	2	1	2
Leak detection and repair program			

a. Initial requirements: Identify all affected streams			
Polycarbonates (PC)	2	1	2
Acrylic and Modacrylic Fibers (AMF)	2	1	2
General Burden ^e			
Polycarbonates (PC)	20	1	20
Acrylic and Modacrylic Fibers (AMF)	20	1	20
Acetal Resins (AR)	20	1	20
Hydrogen Fluoride (HF)	20	1	20
b. Perform monitoring/repairs			
Polycarbonates (PC) ^j			
Acrylic and Modacrylic Fibers (AMF) ^j			
Acetal Resins (AR)	16	12	192
Hydrogen Fluoride (HF) ^k	0.1	1092	109.2
Container vapor tightness certification	N/A		
D. Develop Record System			
Develop startup, shutdown, malfunction plan ^{e, g}			
Polycarbonates (PC)	N/A		
Acrylic and Modacrylic Fibers (AMF)	N/A		
Acetal Resins (AR)	20	1	20
Hydrogen Fluoride (HF)	20	1	20
Control equipment			
General Burden ^e			
Polycarbonates (PC)	16	1	16
Acrylic and Modacrylic Fibers (AMF)	16	1	16
Spinning Lines (AMF)	2	1	2
Acetal Resins (AR)	16	1	16
Hydrogen Fluoride (HF)	16	1	16
Pressure relief devices ^e			
Polycarbonates (PC)	2	1	2
Acrylic and Modacrylic Fibers (AMF)	2	1	2
Leak detection and repair program ^e			
Polycarbonates (PC)	44	1	44
Acrylic and Modacrylic Fibers (AMF)	44	1	44
Acetal Resins (AR)	40	1	40
Hydrogen Fluoride (HF)	40	1	40
E. Record All Information Required by Standards			
Initial requirements ^e			
Polycarbonates (PC)	17	1	17
Acrylic and Modacrylic Fibers (AMF)	17	1	17
Acetal Resins (AR)	17	1	17
Hydrogen Fluoride (HF)	17	1	17
Control equipment inspections			
Polycarbonates (PC)	1	2	2
Acrylic and Modacrylic Fibers (AMF)	1	2	2
Acetal Resins (AR)	1	2	2
Hydrogen Fluoride (HF)	1	2	2

Control equipment monitoring ^l			
Polycarbonates (PC)	1	52	52
Acrylic and Modacrylic Fibers (AMF)	1	52	52
Acetal Resins (AR)	1	52	52
Hydrogen Fluoride (HF)	1	52	52
Control device CMS			
Polycarbonates (PC)	1	12	12
Acrylic and Modacrylic Fibers (AMF)	1	12	12
Acetal Resins (AR)	1	12	12
Hydrogen Fluoride (HF)	1	12	12
Pressure relief devices			
Polycarbonates (PC)	2	1	2
Acrylic and Modacrylic Fibers (AMF)	2	1	2
Leak detection and repair program			
Polycarbonates (PC)	20	1	20
Acrylic and Modacrylic Fibers (AMF)	20	1	20
Acetal Resins (AR)	16	1	16
Hydrogen Fluoride (HF)	16	1	16
F. Time to Train Personnel			
Material determination methods	N/A		
Control equipment inspection and monitoring ^m			
Polycarbonates (PC)	8	1	8
Acrylic and Modacrylic Fibers (AMF)	8	1	8
Acetal Resins (AR)	8	1	8
Hydrogen Fluoride (HF)	8	1	8
Leak detection and repair program ^{h,m}			
Polycarbonates (PC)	10	1	10
Acrylic and Modacrylic Fibers (AMF)	10	1	10
Acetal Resins (AR)	2	1	2
Hydrogen Fluoride (HF)	2	1	2
Container leak tight method	N/A		
RECORDKEEPING SUBTOTAL			
TOTAL LABOR BURDEN AND COST (Rounded)ⁿ			
TOTAL CAPITAL AND O&M COST (Rounded)ⁿ			
GRAND TOTAL (Rounded)ⁿ			

Assumptions:

N/A = Not Applicable.

^a Estimate of burden for each activity, technical hours only.

^b Estimate based on average facilities.

^c We have assumed that there are 7 existing sources (3 PC, 1 AMF, 2 AR, and 1 HF) and that no additional new sources will becon

^d Costs are rounded and based on the following hourly rates: Technical at \$122.20, Management at \$153.55, and Clerical at \$61 Statistics, March 2021, "Table 2. Civilian Workers, by occupational and industry group".

^e Since there are no new respondents estimated, these requirements do not apply.

^f Initial notification requirements include: initial notifications, initial compliance determination, and initial performance tests.

^g All major sources except for those in the PC and AMF subcategories must submit startup, shutdown, malfunction reports semi-consistent with the source's SSM plans. Sources can submit this information with the periodic reports.

^h The rules requires that all sources submit periodic reports (semiannually or according to the schedule for Title V).

ⁱ The standards for equipment leak requires the submittal of an initial report and semiannual reports of leak detection and repair improvement program. These estimates assume sources are submitting the required periodic LDAR information with the semiannual initial report do not apply.

^j Costs for performing monitoring and repairs for the polycarbonates (PC) and acrylic and modacrylic fibers (AMF) categories are instead of conducted in house) (see section 6(b)(iii)).

^k Visual inspections are required once per shift with a total of three shifts per day, at seven days per week, for 52 weeks per year

^l We have assumed that control equipment monitoring should be done on a weekly basis.

^m We have assumed that there will be some labor hours associated with rule analysis and training per year.

ⁿ Totals have been rounded to 3 significant figures. Figures may not add exactly due to rounding.

ards for Acetal Resin; Acrylic and Modacrylic Fiber; Hydrogen Fluoride and Polycarbonate Pr

122.2 153.55 61.51

(D) Respondents per year ^c	(E) Technical person-hours per year (E=CxD)	(F) Management person-hours per year (Ex0.05)	(G) Clerical person- hours per year (Ex0.1)	(H) Cost,\$ ^d
0	0	0	0	\$0
0	0	0	0	\$0
0	0	0	0	\$0
0	0	0	0	\$0
0	0	0	0	\$0
0	0	0	0	\$0
2	4	0.2	0.4	\$544.11
1	2	0.1	0.2	\$272.06
3	108	5.4	10.8	\$14,691.08
1	31	1.55	3.1	\$4,216.88
2	32	1.6	3.2	\$4,352.91
1	16	0.8	1.6	\$2,176.46
3	72	3.6	7.2	\$9,794.05
1	24	1.2	2.4	\$3,264.68
2	32	1.6	3.2	\$4,352.91
1	16	0.8	1.6	\$2,176.46
		388		\$45,842
3	12	0.6	1.2	\$1,632.34
1	4	0.2	0.4	\$544.11

2	8	0.4	0.8	\$1,088.23
1	4	0.2	0.4	\$544.11
3	120	6	12	\$16,323.42
1	40	2	4	\$5,441.14
0	0	0	0	\$0
0	0	0	0	\$0
1	24	1.2	2.4	\$3,264.68
2	48	2.4	4.8	\$6,529.37
3	12	0.6	1.2	\$1,632.34
1	4	0.2	0.4	\$544.11
2	8	0.4	0.8	\$1,088.23
1	4	0.2	0.4	\$544.11
3	6	0.3	0.6	\$816.17
1	2	0.1	0.2	\$272.06
2	4	0.2	0.4	\$544.11
1	2	0.1	0.2	\$272.06
3	6	0.3	0.6	\$816.17
1	2	0.1	0.2	\$272.06
2	4	0.2	0.4	\$544.11
1	2	0.1	0.2	\$272.06
0	0	0	0	\$0
0	0	0	0	\$0
0	0	0	0	\$0
0	0	0	0	\$0
3	288	14.4	28.8	\$39,176.21
1	96	4.8	9.6	\$13,058.74
2	192	9.6	19.2	\$26,117.47
1	96	4.8	9.6	\$13,058.74
3	6	0.3	0.6	\$816.17
1	2	0.1	0.2	\$272.06

0	0	0	0	\$0
0	0	0	0	\$0
0	0	0	0	\$0
0	0	0	0	\$0
0	0	0	0	\$0
0	0	0	0	\$0
2	384	19.2	38.4	\$52,234.94
1	109.2	5.46	10.92	\$14,854.31
0	0	0	0	\$0
0	0	0	0	\$0
0	0	0	0	\$0
0	0	0	0	\$0
0	0	0	0	\$0
0	0	0	0	\$0
0	0	0	0	\$0
0	0	0	0	\$0
0	0	0	0	\$0
0	0	0	0	\$0
0	0	0	0	\$0
0	0	0	0	\$0
0	0	0	0	\$0
0	0	0	0	\$0
0	0	0	0	\$0
0	0	0	0	\$0
0	0	0	0	\$0
0	0	0	0	\$0
0	0	0	0	\$0
0	0	0	0	\$0
0	0	0	0	\$0
3	6	0.3	0.6	\$816.17
1	2	0.1	0.2	\$272.06
2	4	0.2	0.4	\$544.11
1	2	0.1	0.2	\$272.06

3	156	7.8	15.6	\$21,220.45
1	52	2.6	5.2	\$7,073.48
2	104	5.2	10.4	\$14,146.96
1	52	2.6	5.2	\$7,073.48
3	36	1.8	3.6	\$4,897.03
1	12	0.6	1.2	\$1,632.34
2	24	1.2	2.4	\$3,264.68
1	12	0.6	1.2	\$1,632.34
3	6	0.3	0.6	\$816.17
1	2	0.1	0.2	\$272.06
3	60	3	6	\$8,161.71
1	20	1	2	\$2,720.57
2	32	1.6	3.2	\$4,352.91
1	16	0.8	1.6	\$2,176.46
3	24	1.2	2.4	\$3,264.68
1	8	0.4	0.8	\$1,088.23
2	16	0.8	1.6	\$2,176.46
1	8	0.4	0.8	\$1,088.23
3	30	1.5	3	\$4,080.86
1	10	0.5	1	\$1,360.29
2	4	0.2	0.4	\$544.11
1	2	0.1	0.2	\$272.06
		2,518		\$297,794
		2,910		\$344,000
				\$43,900
				\$388,000

94 hr/response

ne subject to the rule over the next three years.

.51. These labor rates are based on the United States Department of Labor, Bureau of Labor

annually when actions are taken in the event of a startup, shutdown, or malfunction that are

(LDAR) and any changes to the processes, monitoring frequency and initiation of a quality annual reports. Since there are no new respondents estimated, the requirements for a one-

accounted for in operation and maintenance costs (i.e. the LDAR program is contracted out

: (3x7x52) for a total of 1,092 inspections per year.

roduction (40 CFR Part 63, Subpart YY) (Renewal)

Table 2: Average Annual EPA Burden and Cost – NESHAP for Source Categories: Generic M

Burden Item	(A) EPA person-hours per occurrence	(B) No. of occurrences per plant per year	(C) EPA person-hours per plant per year (C=AxB)	(D) Plants per year ^a
REPORT REVIEW				
1. Initial Requirements				
a. Initial notification ^c	2	1	2	0
b. Performance test ^{c, d}	2	1	2	0
c. Compliance status ^e	4	1	4	0
d. Performance test reports ^{c, d}	4	1	4	0
2. Periodic Requirements				
a. Periodic reports	3	2	6	7
b. Leak detection and repair reports ^{c, f}	3	2	6	7
c. Startup, shutdown, malfunction report	2	1	2	0
TOTAL (Rounded)^h				

Assumptions

^a We have assumed that there are 7 existing sources (3 PC, 1 AMF, 2 AR, and 1 HF) and that no additional new source

^b This cost is based on the following hourly labor rates times a 1.6 benefits multiplication factor to account for govern \$51.23 for Technical (GS-12, Step 1) and \$27.73 Clerical (GS-6, Step 3). These rates are from the Office of Personnel M locality rates of pay.

^c We have assumed there will be no new sources over the next three years of this ICR. Since there are no new respon

^d We have assumed that the Agency will not have additional burden from sources conducting performance tests due meeting additional requirements

^e Since there are no new respondents estimated, these requirements do not apply.

^f The equipment leak standards require the submittal of an initial report and semiannual report of leak detection and monitoring frequency and initiation of a quality improvement program. We have assumed that sources are submittir

^g All major sources except for those in the PC and AMF subcategories must submit startup, shutdown, malfunction re shutdown, or malfunction that are consistent with the source’s SSM plans. Since there are no new respondents estim malfunction (SSM) plan do not apply. These estimates assume that sources are submitting their information on SSM \

^h Totals have been rounded to 3 significant figures. Figures may not add exactly due to rounding.

Maximum Achievable Control Technology Standards for Acetal Resin; Acrylic and Modacryl

	51.23	69.04	27.73	
(E) Technical person-hours per year (E=CxD)	(F) Management person-hours per year (Ex0.05)	(G) Clerical person-hours per year (Ex0.1)	(H) Agency Cost, \$ ^b	
0	0	0	\$0	
0	0	0	\$0	
0	0	0	\$0	
0	0	0	\$0	
42	2.1	4.2	\$2,413.11	
42	2.1	4.2	\$2,413.11	
0	0	0	\$0	
	97		\$4,830	

s will become subject to the rule over the next three years.

iment overhead expenses: \$69.04 for Managerial (GS-13, Step 5),
Management (OPM) "2021 General Schedule", which excludes

dents estimated, these requirements do not apply.
to a process change that may or may not result in the source

repair (LDAR) program experiencing any changes to the processes,
ing the required LDAR information with the periodic reports.

ports semiannually when actions are taken in the event of a startup,
iated, the requirements to develop a startup, shutdown and
with the periodic report which is submitted on a semiannual basis.

lic Fiber; Hydrogen Fluoride and Polycarbonate Production (40 CFR Part 63, Subpart YY) (R

enewal)

Capital/Startup and Operation and Maintenance (O&M) Costs						
(A)	(B)	(C)	(D)	(E)	(F)	(G)
Source Category and Cost Type	Capital/Startup Cost for One Respondent	Number of Respondents	Total Capital/Startup Cost	Annual Costs for One Respondent	Number of Respondents	Total Annual Cost
			(B X C)			(E X F)
PC (O&M)	\$0	0	\$0	\$1,505	3	\$4,515
PC (PRD)	\$12,649	0	\$0	\$1,804	3	\$5,412
PC (LDAR)	\$3,899	0	\$0	\$541	3	\$1,623
AMF (O&M)	\$0	0	\$0	\$1,505	1	\$1,505
AMF (PRD)	\$37,063	0	\$0	\$5,277	1	\$5,277
AMF (LDAR)	\$1,428	0	\$0	\$223	1	\$223
AR ^{1,2}	\$0	0	\$0	\$192	2	\$384
				\$7,500	2	\$15,000
HF ^{1,3}	\$0	0	\$0	\$192	1	\$192
				\$9,776	1	\$9,776
Total (rounded)						\$43,900

postage:

153.78

38.15

191.93

30.76

9776