Environmental Protection Agency

(p) Bertrandite Ore Countercurrent and Decantation (CCD) Scrubber.

BAT LIMITATIONS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg of bertrandite ore processed	
Beryllium Chromium (Total) Copper Cyanide (Total) Ammonia (as N) Fluoride	0.083 0.037 0.129 0.020 13.463 3.535	0.037 0.015 0.062 0.008 5.919 2.010

 $[50~{\rm FR}~38346,~{\rm Sept.}~20,~1985,~{\rm as~amended}~{\rm at}~55~{\rm FR}~31698,~{\rm Aug.}~3,~1990]$

§ 421.154 Standards of performance for new sources.

Any new source subject to this subpart shall achieve the following new source performance standards:

(a) Solvent extraction raffinate from bertrandite ore.

NSPS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds millior pounds) of beryllium car- bonate produced from bertrandite ore as beryl- lium	
Beryllium	1,842.000	831.000
Chromium (total)	831.000	336.900
Copper	2,875.000	1,370.000
Cyanide (total)	449.200	179.700
Ammonia (as N)	299,400.000	131,600.000
Fluoride	78,610.000	44,700.000
Total Suspended solids	33,690.000	26,950.000
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(b) Solvent extraction raffinate from beryl ore.

NSPS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of beryllium ca bonate produced from beryl ore as beryllium	
Beryllium	180.4	81.4

NSPS FOR THE PRIMARY BERYLLIUM SUBCATEGORY—Continued

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Chromium (total)	81.4	33.0
Copper	281.6	134.2
Cyanide (total)	44.0	17.6
Ammonia (as N)	29,330.0	12,890.0
Fluoride	7,700.0	4,378.0
Total Suspended solids	3,300.0	2,640.0
pH	(1)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

(c) Beryllium carbonate filtrate.

NSPS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Maximum for any 1 day	Maximum for monthly average
pounds) of	ds per million beryllium car- duced as be-
475.000	70.070
175.900	79.370
79.370	32.180
274.600	130.800
42.900	17.160
28,590.000	12,579.000
7,508.000	4,269.000
3,218.000	2,574.000
(1)	(1)
	for any 1 day mg/kg (pount pounds) of bonate pro ryllium 175.900 79.370 274.600 42.900 28,590.000 7,508.000 3,218.000

¹ Within the range of 7.5 to 10.0 at all times.

(d) Beryllium hydroxide filtrate.

NSPS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	pounds) of	ds per million beryllium hy- duced as be-
Beryllium	111.520 50.320 174.080 27.200 18128.800 4760.000 2040.000	50.320 20.400 82.960 10.880 7969.600 2706.400 1632.000
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(e) Beryllium oxide calcining furnace wet air pollution control.

§421.154

NSPS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million of beryllium iced
Donalli ma	216.20	07.57
Beryllium	216.20	97.57
Chromium (total)	95.57	39.56
Copper	337.50	160.90
Cyanide (total)	52.74	21.10
Ammonia (as N)	35,150.00	15,450.00
Fluoride	9,230.00	5,248.00
Total suspended solids	3,956.00	3,164.00
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(f) Beryllium hydroxide supernatant.

NSPS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of beryllium hy- droxide produced from scrap and residues as beryllium	
Beryllium	188.6	85.1
Chromium (total)	85.1	34.5
Copper	294.4	140.3
Cyanide (total)	46.0	18.4
Ammonia (as N)	30,660.0	13,480.0
Fluoride	160,308.0	71,201.0
Total Suspended solids	3,450.0	2,760.0
pH	(1)	(1)

 $^{^{\}rm 1}\,\mbox{Within}$ the range of 7.5 to 10.0 at all times.

(g) Process water.

NSPS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of berylliu pebbles produced	
Beryllium	143.30	64.68
Chromium (total)	64.68	26.22
Copper	223.70	106.60
Cyanide (total)	34.96	13.98
Ammonia (as N)	23,300.00	10,240.00
Fluoride	6,118.00	3,479.00
Total suspended solids	2,622.00	2,098.00
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

40 CFR Ch. I (7-1-09 Edition)

NSPS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million of beryllium oduced
Beryllium	0.000	0.000
Chromium (total)	0.000	0.000
Copper	0.000	0.000
Cyanide (total)	0.000	0.000
Ammonia (as N)	0.000	0.000
Fluoride	0.000	0.000
Total suspended solids	0.000	0.000
pH	(1)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

(i) Chip treatment wastewater.

NSPS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds) scrap chips	of beryllium
Beryllium	6.355 2.868	2.868
Copper	9.920	4.728
Cyanide (total)	1.550	0.620
Ammonia (as N)	1,033.000	454.200
Fluoride	271.300	154.200
Total suspended solids	116.300	93.000
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(j) Beryllium pebble plant area vent wet air pollution control.

NSPS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million of beryllium oduced
Beryllium	0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000
Ammonia (as N)Fluoride	0.000 0.000	0.000 0.000
Total suspended solidspH	0.000 (¹)	0.000 (¹)

¹ Within the range of 7.5 to 10.0 at all times.

(k) Beryl Ore Gangue Dewatering.

⁽h) Fluoride furnace scrubber.

Environmental Protection Agency

NSPS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of beryl ore processed	
Beryllium	0.855	0.386
Chromium (Total)	0.386	0.156
Copper	1.335	0.636
Cyanide (Total)	0.209	0.083
Ammonia (as N)	139.032	61.120
Fluoride	36.505	20.756
Total Suspended Solids	15.645	12.516
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(1) Bertrandite Ore Gangue Dewatering.

NSPS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of bertrandite ore processed	
Beryllium	2.185	0.986
Chromium (Total)	0.986	0.400
Copper	3.411	1.626
Cyanide (Total)	0.533	0.213
Ammonia (as N)	355.245	156.169
Fluoride	93,275	53.034
Total Suspended Solids	39.975	31.980
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(m) Beryl Ore Processing.

NSPS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds) of processed	ds per millior of beryl ore
Beryllium Chromium (Total) Copper Cyanide (Total) Ammonia (as N) Fluoride Total Suspended Solids pH	5.988 2.702 9.348 1.461 973.490 255.605 109.545	2.702 1.095 4.455 0.584 427.956 145.330 87.636

¹ Within the range of 7.5 to 10.0 at all times.

(n) Aluminum Iron Sludge (AIS) Area Wastewater.

NSPS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

pounds) of total berylliu carbonate produced a	Pollutant or pollutant property	for any 1	Maximum for monthly average
		pounds) of carbonate	total beryllium
D	D a sa dilia sea	000 700	170 100
			173.160
			70.200
			285.480
-,		93.600	37.440
Ammonia (as N) 62384.400 27424.80	Ammonia (as N)	62384.400	27424.800
Fluoride	Fluoride	16380.000	9313.200
Total Suspended Solids	Total Suspended Solids	7020.000	5616.000
pH (¹) (pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(o) Bertrandite Ore Leaching Scrubber.

NSPS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		rtrandite ore essed
Beryllium	1.239 0.559 1.934 0.302 201.416 52.885 22.665 (¹)	0.559 0.227 0.922 0.121 88.545 30.069 18.132 (¹)

¹ Within the range of 7.5 to 10.0 at all times.

(p) Bertrandite Ore Countercurrent and Decantation (CCD) Scrubber.

NSPS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg of bertrandite ore processed	
Beryllium	0.083 0.037 0.129 0.020 13.463 3.535 1.515	0.037 0.015 0.062 0.008 5.919 2.010 1.212

¹ Within the range of 7.5 to 10.0 at all times.

 $[50~{\rm FR}~38346,~{\rm Sept.}~20,~1985,~{\rm as~amended}~{\rm at}~55~{\rm FR}~31699,~{\rm Aug.}~3,~1990]$