Permit Number: 979077

## 65-0049-14

Source Status: New Modification Expansion Relocation Permit Status: New Renewal

PSD NSPS NESHAPs Previous Permit Number:

Construction \_\_\_\_\_ Operating \_\_\_\_570857

	Pounds/Hour				Year	Date of	*	Applicable Standard			
	Actual	Potential	Allowable	Actual	Potential	Allowable	Net Change	Data			
	Source 14 - Smelter										
										1200-03	
РМ		0.92	0.92		4.04	4.04		5/25/2021		0701(5)	
$SO_2$		21.88	21.88		95.83	95.83		5/25/2021		1401(3)	
СО					14.59	14.59		5/25/2021		0707(2)	
VOC					0.05	0.05		5/25/2021		0707(2)	
NO <sub>X</sub>					1.11	1.11		5/25/2021		0707(2)	
HCl		11.24	11.24		49.22	49.22		5/25/2021		0903(8)	
Total HAPs		11.24	11.24		49.22	49.22		5/25/2021		0903(8)	

\* - Source of data

PERMITTING PROGRAM: <u>SPA</u>DATE: <u>1/4/2024</u>

Permit Number: 979077

### 65-0049-15

Source Status: New Modification Expansion Relocation Permit Status: New Renewal

PSD NSPS NESHAPs Previous Permit Number:

Construction \_\_\_\_\_ Operating \_\_\_\_\_570857

	Pounds/Hour				Year	Date of	*	Applicable Standard			
	Actual	Potential	Allowable	Actual	Potential	Allowable	Net Change	Data			
	Source 15 – Calciner, Ball mills, Blender, and pouring										
										1200-03	
PM		4.87	4.87		21.33	21.33		5/25/2021		0701(5)	
$SO_2$		0.002	0.002		0.01	0.01		5/25/2021		1403(5)	
СО		0.31	0.31		1.37	1.37		5/25/2021		0707(2)	
VOC		4.18	4.18		18.31	18.31		5/25/2021		0707(2)	
NO <sub>X</sub>		0.37	0.37		1.64	1.64		5/25/2021		0707(2)	
Pb		0.01	0.01		0.04	0.04		5/25/2021			
Total HAPs		0.13	0.13		0.55	0.55		5/25/2021		0903(8)	

\* - Source of data

PERMITTING PROGRAM: <u>SPA</u>DATE: <u>1/4/2024</u>

Permit Number: 979077

09-.03(8)

#### 65-0049-16 Source Status: New Modification Expansion Relocation Permit Status: New Renewal PSD NSPS NESHAPs **Previous Permit Number:** Construction Operating 570857 Pounds/Hour Tons/Year Date of \* Applicable Standard Net Change Actual Potential Allowable Actual Potential Allowable Data Source 16 – Hammer Mill, Silos, and Day Bins 1200-03 4.04 PM 0.78 0.78 4.04 5/25/2021 07-.01(5)

0.01

0.01

5/25/2021

\* - Source of data

Total HAPs

PERMITTING PROGRAM: <u>SPA</u> DATE: <u>1/4/2024</u>

Permit Number: 979077

#### 65-0049-17

Source Status: New Modification Expansion Relocation Permit Status: New Renewal

**Previous Permit Number:** 

PSD NSPS NESHAPs

Construction \_\_\_\_\_ Operating \_\_\_\_570857

	Pounds/Hour				Year	Date of	*	Applicable Standard			
	Actual	Potential	Allowable	Actual	Potential	Allowable	Net Change	Data			
Source 17 – Silos, and Day Bins											
								1200-03			
РМ		2.39	2.39		10.45	10.45		5/25/2021		0701(5)	
Pb					0.02	0.02		5/25/2021			
Total HAPs					0.27	0.27		5/25/2021		0903(8)	

\* - Source of data

PERMITTING PROGRAM: <u>SPA</u>DATE: <u>1/4/2024</u>

## **CONSTRUCTION PERMIT SUMMARY REPORT**

Company Name:	Heraeus Precious America, LLC	Metals	North	File Number:	65-0049	EPS Initials:	SPA	
Permit Number(s):	979077			Source Point N	umber(s): <u>14-</u>	17		
Application Received	d (date): <u>5/25/2021</u>			Application Complete (date): <u>5/25/2021</u>				
Air Quality Analysis	Performed? Yes	No						

Briefly describe the project: (new source, modifications) (what the process is) (type controls proposed) (emissions expected, qualitative) (replacing what sources) (background information)

Heraeus Precious Metals North America, LLC, operating under Title V Permit 570857, plans to install a new process that includes multiple sources: a smelter, calciner (with ball mills and blender), a hammer mill, and additional bins and silos. The smelter will be controlled by a lime-injected baghouse, the calciner and hammer mill will each be controlled by a baghouse. These sources will be subject to a Case by Case MACT to help control HAPs, language was borrowed from multiple MACT; HCl emissions are expected to be over 49 tons per year from the smelter. There is an expected emission of volatile organic compounds (VOC) from the calciner, so no further VOC are expected from the smelter. Amendment #1 was issued to extend the expiration date and a typo was fixed in the Condition S2-5G Log #4 to correct the HAPs basis. The compliance method of Condition S2-4G was also revised to clarify the Natural Gas PM emissions tracking.

The smelter afterburner and calciner will have a combined 6.0 MMBtu/hr maximum heat input, utilizing Natural Gas as the only fuel source.

Performance testing shall be performed to determine  $SO_2$  and HCl emission factors, testing will be performed according the Case by Case MACT requirements of permit 979077 using EPA Methods 26A or 320. The permittee asked to remove the monthly PM recordkeeping requirements for sources 14 and 15, based on baghouse operation, the request was granted for Source 14 due to the potential to emit being below the insignificant threshold of 5 tons per year. The recordkeeping requirement for source 15 (Condition S2-4G) was kept because the PTE was above 20 tons per year. Source 14's PM limit compliance method is based on the stricter continuous monitoring requirements from the Case by Case MACT and will not require a daily log for pressure drop.

Rules Analysis										
Title V	Cond. Major	Minor	Source catego	ry listed in 1200-0	03-0901(4)(b)1.(i	i)? Yes	No			
Reason for PSD: Applicable NSPS: Applicable NESHAP: Applicable NESHAP:		New source 40 CFR Part 6 40 CFR Part 6 40 CFR Part 6	1, Subpart	Sig. increase inemissions   N/A A     State Rule 1200-03-16   N/A A     State Rule 1200-03-11   N/A A     State Rule 1200-03-31   N/A A						
Other Applicable State Rules										
PM Emissions: SO <sub>2</sub> Emissions: CO Emissions: VOC Emissions:	1200-03- 1200-03- 1200-03- 1200-03-	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	_ ⊠ N/A □ _ ⊠ N/A □ _ ⊠ N/A □ _ ⊠ N/A □	NO <sub>x</sub> Emissions: HCl Emissions: Emissions: Emissions:	1200-03-     07       1200-03-     09       1200-03-	03(8)	N/A   N/A   N/A   N/A   N/A   N/A			
Visible Emissions from Visible Emissions from Visible Emissions from		Source 14 Source 15 Source 16	not to exceed not to exceed not to exceed	10     % opacity pe       10     % opacity pe       10     % opacity pe	r Method 9	1200-03	3- 05 - 03(6) 3- 05 - 03(6) 3- 05 - 03(6)			
Comments:										