

ORDNANCE SYSTEMS INC. 4050 Peppers Ferry Road, Route 114 Radford, VA 24141 Mail: P.O. Box 1, Radford, VA 24143 Telephone (540) 639-7323

August 14, 2024

Ashby R. Scott
Hazardous Waste Permit Writer
Office of Financial Responsibility and Waste Programs
Virginia Department of Environmental Quality
1111 East Main Street, Suite 1400
Richmond, VA 23219

Subject: Variance Request to Recycle Secondary Hazardous Material

Radford Army Ammunition Plant, Radford, Virginia

Dear Mr. Scott:

BAE Systems Ordnance Systems Inc. (OSI), operating contractor for Radford Army Ammunition Plant (RFAAP) respectfully submits the attached Variance Request for review and approval.

If you have any questions or comments, please contact me at 540.525.2311 or horace.downs@baesystems.com.

Respectfully,

Dean Downs

Principal Environmental Engineer

BAE Systems, OSI

Coordination with RFAAP Staff:

Enclosure: Additional Certification Document

Attachment A – CEMS Quarterly Emissions Summary Reports

Attachment B - Summary of RATA and ACA Results

cc: RFAAP ACO Staff/ Alberts

File



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Certification of submission to Ashby Scott (Virginia Department of Environmental Quality) of the Variance Request for Recycling Hazardous Secondary Materials from offsite at the RFAAP NAC/SAC.

Radford Army Ammunition Plant, Radford, Virginia.

DOCUMENT CERTIFICATION FORM

Certification: I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering and evaluating the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

SIGNATURE:		DATE:		
NAME:	Adrien G. Humphreys	REGISTRATION:	20656	
TTLE:	Lieutenant Colonel, US Army Commanding	ADDRESS:	PO Box 2	
COMPANY:	U.S. Army		Radford, VA 24143	
SIGNATURE:		DATE:		
NAME:	Aron Theroux	REGISTRATION:	20656	
TTLE:	General Manager, RFAAP	ADDRESS:	PO Box 1	
ΌΜΡΔΝΥ·	BAF Systems Ordnance Systems Inc		Radford VA 24143	

United States Environmental Protection Agency RCRA SUBTITLE C SITE IDENTIFICATION FORM



son for S	ubmittal (Select only one.) Obtaining or updating an EP		·						
	Obtaining or updating an EP								
	Obtaining or updating an EPA ID number for on-going regulated activities (Items 10-17 below) that will contin for a period of time.								
	Submitting as a component	of the Hazardous Waste Report for	(Reporting Year)						
	waste, > 1 kg of acu	=	nerator of ≥ 1,000 kg of non-acute hazardous acute hazardous waste spill cleanup in one or at LQG regulations)						
	Notifying that regulated acti	vity is no longer occurring at this Sit	e						
	Obtaining or updating an EP	A ID number for conducting Electror	nic Manifest Broker activities						
	Submitting a new or revised	Part A (permit) Form							
	lumah au								
EPA ID N	lumber								
Name									
Ivanie									
Location	Address								
	Address								
	own, or Village		County						
-	wii, or village	Country							
State		Country	Zip Code						
Latitud	e	Longitude	☐ Use Lat/Long as Primary Address						
Mailing	Address		☐ Same as Location Street Address						
Street A	Address								
City, To	wn, or Village								
State		Country	Zip Code						
Land Ty	pe								
		Anisk DEschard DEschar							
□ Priva	ate 🗆 County 🗆 Dis	strict Federal Tribal	☐ Municipal ☐ State ☐ Other						
□ Priva	·								
□ Priva	·	etem (NAICS) Code(s) for the Site (at							

D.

В.

Contact Inform	ation				☐ Same as Location	n Ad
First Name			MI		Last Name	
Title						
Street Addres	S					
City, Town, or	· Village					
State			Country		Zip Code	
Email			•		<u> </u>	
Phone			Ext		Fax	
A. Name of Si					☐ Same as Location Date Became Owner (mm/dd/	
Owner Type					-	
□ Private	☐ County	☐ District	☐ Federal	□ Tribal	☐ Municipal ☐ State ☐	Oth
Street Addres	S					
City, Town, or	· Village					
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Phone			Ext		Fax	
B. Name of Si	te's Legal Ope	rator			□ Same as Locatio	ın Δ
Full Name					Date Became Operator (mm/c	
Operator Type	e					
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	es" o	r "No	o" for al		nt act			of the	date	subm	itting th	e form); complete any additional boxes as instruct
□ Y						azard	ous \	Naste	e—If '	"Yes",	mark on	ly one of the following—a, b, c
				a. L		-Ger haza - Ger (2.2	rdou nerat lb/m	es, in s was es, in o) of es, in	any c ste (in any c acute	calenda ncludes calend hazar calend	ar mont quanti ar mont dous wa ar mont	n, 1,000 kg/mo (2,200 lb/mo) or more of non-acutities imported by importer site); or h, or accumulates at any time, more than 1 kg/mo
				b. S0	ζG	1 kg	(2.2	lb) of	acute	e haza		/mo) of non-acute hazardous waste and no more aste and no more than 100 kg (220 lb) of any acut
				c. VS	SQG	Less	than	or ed	qual t	o 100	kg/mo (220 lb/mo) of non-acute hazardous waste.
□ Y		N	proce	esses).	If "Ye	s", pro	ovide	an e	xplan	ation i	n the Co	rm or one-time event and not from on-going omments section. <i>Note: If "Yes", you MUST indicated 10.A.1 above.</i>
□ Y		N	3. Tre	eater, S ese act	itorer tivities	or Dis	spose	er of I	Hazar	dous V	Vaste—	Note: Part B of a hazardous waste permit is requir
□ Υ		N	4. Red	ceives H	Hazaro	dous \	Nast	e fror	n Off-	-site		
□ Y		N	5 Rec	ycler o	f Haza	rdous	s Wa	ste				
				a. Re	ecycle	r who	stor	es pri	ior to	recycl	ing	
				b. Re	ecycle	r who	doe	s not	store	prior	to recyc	ling
□ Y		N	6. Exe	mpt Bo	oiler a	ınd/oı	· Ind	ustria	l Furn	ace—	f "Yes",	mark all that apply.
				a. Sn	nall Q	uanti	ty Or	-site	Burne	er Exei	nption	
				b. Sr	neltin	g, Me	lting	, and	Refin	ing Fu	rnace Ex	
					_							remption
hand	dled	at yo	ur site.		nem in	the c	rder					dist the waste codes of the Federal hazardous was e regulations (e.g. D001, D003, F007, U112). Use a
hand	dled	at yo	ur site.	List th	nem in	the c	rder					list the waste codes of the Federal hazardous was
hand	dled	at yo	ur site.	List th	nem in	the c	rder					list the waste codes of the Federal hazardous was
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hand addit	dled ditions aste	at you	ur site. ge if mo	List thore space	gulate	e the c	order ded.	they	are p	ardou	s Waste	list the waste codes of the Federal hazardous was e regulations (e.g. D001, D003, F007, U112). Use a

Number			
_		aste Activities (NOTE: Refer to your State regulations to determine if a separate permit is requ	uire
A. Other W	_	ransporter of Hazardous Waste—If "Yes", mark all that apply.	
T L IN		T _	
\square Y \square N		Underground Injection Control	
	3. l	United States Importer of Hazardous Waste	
□ Y □ N	4. F	Recognized Trader—If "Yes", mark all that apply.	
		a. Importer	
		b. Exporter	
□ Y □ N		Importer/Exporter of Spent Lead-Acid Batteries (SLABs) under 40 CFR 266 Subpart G—If "Yes", nt apply.	nark
		a. Importer	
		b. Exporter	
□ Y □ N	apply	rge Quantity Handler of Universal Waste (you accumulate 5,000 kg or more) - If "Yes" mark all to Note: Refer to your State regulations to determine what is regulated.	
		a. Batteries	
		b. Pesticides	
		c. Mercury containing equipment	
		d. Lamps	
		e. Aerosol Cans	
		f. Other (specify)	
		g. Other (specify)	
□ Y □ N		Destination Facility for Universal Waste Note: A hazardous waste permit may be required for th	is
C. Used Oil	N -44':44'		
□ Y □ N		sed Oil Transporter—If "Yes", mark all that apply.	
		a. Transporter	
		b. Transfer Facility (at your site)	
\square Y \square N	2. Us	red Oil Processor and/or Re-refiner—If "Yes", mark all that apply.	
		a. Processor	
		b. Re-refiner	
□ Y □ N		f-Specification Used Oil Burner	
□ Y □ N	4. Us	ed Oil Fuel Marketer—If "Yes", mark all that apply.	
		a. Marketer Who Directs Shipment of Off-Specification Used Oil to Off-Specification Used Oil I	3urr
•		+	

ID Number												
D. Pharma	ceutic	al Act	tivitie	es								
□ Y □ N	cals		Yes",	marl	k only	one.						nagement of hazardous waste pharmaceuti- instructions for definitions of healthcare facilit
		a.	Heal	thcar	e Fac	ility						
		b.	Reve	rse D	istrik	outor						
□ Y □ N	pha	rmace	eutic	als. N	Note:	You r	nay only	/ with	draw	if you	ı are	opart P for the management of hazardous wast a healthcare facility that is a VSQG for all of ceuticals.
igible Acade es pursuant to							·Notifica	ition f	or opt	ing i	nto o	or withdrawing from managing laboratory haza
□ Y □ N	was	tes in	labo	rator	ies—	· If "Ye	_	call th				2, Subpart K for the management of hazardous See the item-by-item instructions for defini-
		1.	Colle	ge or	r Univ	versity						
		2.	Teac	hing	Hosp	ital tha	at is owr	ned by	or ha	as a f	orma	al written affiliation with a college or university
		3.	Non-	profi	t Inst	itute t	hat is ov	wned l	oy or	has a	forn	nal written affiliation with a college or universi
\square Y \square N	В. \	Withd	rawii	ng fro	om 40	CFR F	Part 262	, Subp	art K	for th	ne ma	anagement of hazardous wastes in laboratorie
Episodic Gen	Are no n	you ai	han	60 da	ıys, tl		ves you					a planned or unplanned episodic event, lasting or category. If "Yes", you must fill out the
.QG Consolid	lation	of VS	QG I	Hazaı	rdous	s Wast	e					
□ Y □ N	pur		to 40	CFR								Waste Under the Control of the Same Person e Addendum for LQG Consolidation of VSQG
Notification (of LQ0	3 Site	Clos	ure fo	or a C	Centra	Accum	ulatio	n Are	a (CA	A) (c	optional) OR Entire Facility (required)
\square Y \square N	LQG	Site (Closu	ire of	a Ce	ntral A	ccumul	ation /	Area (CAA)	or E	ntire Facility.
	A.	□ Cei	ntral	Accu	mula	ition A	rea (CA	4) or □	Entir	e Fa	cility	
	В. І	Expect	ted c	losur	e dat	:e:		m	m/dd	/yyy\ 	/	
	C. I	Reque	esting	new	clos	ure da	te:		r	nm/o	dd/yy	ууу
	D. I	Date o	close	d :			_ mm/c	ld/yyy	У			
			•				•					ds 40 CFR 262.17(a)(8)
		2. Not	in co	ompli	ance	with t	ne closu	ıre pe	rtorm	ance	stan	dards 40 CFR 262.17(a)(8)

6. Notification of Hazardous Secondary Material (HSM) Activity Y N Are you notifying under 40 CFR 260.42 that you will begin managing, are managing, or will stop managing must fill out the Addendum to the Site Identification Form for Managing Hazardous Secondary Material. 7. Electronic Manifest Broker N Are you notifying as a person, as defined in 40 CFR 260.10, electing to use the EPA electronic manifest symmetry to the too total in, complete, and transmit an electronic manifest under a contractual relationship with a hazardous waste generator? 8. Comments (include Item number for each comment) 19. Certification certify under penalty of law that this document and all attachments were prepared under my direction on pervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information attributes the system, or those persons directly responsible for irring the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I wave that there are significant penalties for submitting false information, including the possibility of fines and imprisonment convolving violations. Note: For the RCRA Hazardous Waste Part A permit Application, all owners and operators must sign (FR 270.10(b) and 270.11). Signature of legal owner, operator or authorized representative Date (mm/dd/yyyy) Printed Name (First, Middle Initial Last) Title Email Title Title First, Middle Initial Last) Title First, Middle Initial Last) Title First, Middle Initial Last) Title	Are you notifying under 40 CFR 260.42 that you will begin managing, are managing, or will stop managin maradous secondary material under 40 CFR 260.30, 40 CFR 261.4(a)(23), (24), (25), or (27)? If "Yes", you must fill out the Addendum to the Site Identification Form for Managing Hazardous Secondary Material. 7. Electronic Manifest Broker	A ID Number										
hazardous secondary material under 40 CFR 260.30, 40 CFR 261.4(a)(23), (24), (25), or (27)? If "Yes", you must fill out the Addendum to the Site Identification Form for Managing Hazardous Secondary Material. 7. Electronic Manifest Broker Y N Are you notifying as a person, as defined in 40 CFR 260.10, electing to use the EPA electronic manifest system to obtain, complete, and transmit an electronic manifest under a contractual relationship with a hazardous waste generator? 8. Comments (include item number for each comment) 9. Certification I certify under penalty of law that this document and all attachments were prepared under my direction of envision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information that there are significant penalties for submitting false information, including the possibility of fines and imprisonment that there are significant penalties for submitting false information, including the possibility of fines and imprisonment owing violations. Note: For the RCRA Hazardous Waste Part A permit Application, all owners and operators must sign (FR 270.10(b) and 270.11). Signature of legal owner, operator or authorized representative Date (mm/dd/yyyy) Printed Name (First, Middle Initial Last) Email Signature of legal owner, operator or authorized representative Date (mm/dd/yyyy)	hazardous secondary material under 40 CFR 260.30, 40 CFR 261.4(a)(23), (24), (25), or (27)? If "Yes", you must fill out the Addendum to the Site Identification Form for Managing Hazardous Secondary Material. 7. Electronic Manifest Broker Y	6. Notification	of Hazardo	ous Seco	ondary Ma	aterial	(HSN	/I) Act	tivity			
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EPA ID Number						

ADDENDUM TO THE SITE IDENTIFICATION FORM: NOTIFICATION OF HAZARDOUS SECONDARY MATERIAL ACTIVITY



ONLY fill out this form if:

- You are located in a State that allows you to manage excluded hazardous secondary material (HSM) under 40 CFR 260.30, 261.4(a)(23), (24), (25), or (27) (or state equivalent; See https://www.epa.gov/hw/where-2018-definition-solid-waste-rule-effect for a list of eligible states; AND
- You are or will be managing excluded HSM in compliance with 40 CFR 260.30, 261.4(a)(23), (24), (25), or (27) (or state equivalent) or have stopped managing excluded HSM in compliance with the exclusion(s) and do not expect to manage any amount of excluded HSM under the exclusion(s) for at least one year. Do not include any information regarding your hazardous waste activities in this section. Note: If your facility was granted a solid waste variance under 40 CFR 260.30 prior to July 13, 2015, your management of HSM under 40 CFR 260.30 is grandfathered under the previous regulations and you are not required to notify for the HSM management activity excluded under 40 CFR 260.30.

Facility will begin managing excluded HSM as of	1. F	Reason for	Notification (Include dates where requ	uested)					
Facility has stopped managing excluded HSM as of (mm/dd/yyyy) and is notifying as required. 2. Description of Excluded HSM Activity. Please list the appropriate codes (see Code List section of the instructions) and quantities, in short tons, to describe your excluded HSM activity ONLY (do not include any information regarding your hazardous wastes). Use additional pages if more space is needed. A. Facility Code B. Waste Code(s) for HSM C. Estimate Short Tons of excluded HSM to be managed annually managed during the most Code Code Code		Facility wi	ill begin managing excluded HSM as of	(mm/c	dd/yyyy).				
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recent odd-numbered year		code							
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VARIANCE REQUEST TO RECYCLE HAZARDOUS SECONDARY MATERIAL — SPENT ACID RADFORD ARMY AMMUNITION PLANT, RADFORD, VIRGINIA EPA ID#: VA1210020730

14 August 2024

REVISION HISTORY:

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Official Submittal	8/14/2024	BAE Env	

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ACRONYMS & CUI LEGEND

CO - Carbon Monoxide

DEQ - Virginia Department of Environmental Quality

EPA - Environmental Protection Agency

MOC - Management of Change

NAC/SAC - Nitric Acid Concentrator/Sulfuric Acid Concentrator

NC - Nitrocellulose

NG - Nitroglycerin

NGMA - Nitroglycerin Mixed Acid

NOx - Nitrous Oxides

PHA - Process Hazards Analysis

PSM - Process Safety Management

RCRA - Resource Conservation and Recovery Act

RFAAP - Radford Army Ammunition Plant

RMP - Risk Management Plan

SNA - Strong Nitric Acid

SSA - Strong Sulfuric Acid

VHMR - Virginia Hazardous Waste Management Regulations

VPDES - Virginia Pollutant Discharge Elimination System

SECTION 1. BACKGROUND

BAE Systems, Ordnance Systems Inc. (BAE) is petitioning to exclude a specific waste stream from classification as a solid waste, according to 9VAC 20-60-1390. This variance request will allow the Radford Army Ammunition Plant (RFAAP) to accept and recycle hazardous secondary material that will be transferred to our site for reclamation under 40 CRF 261.4(a)(24). According to 9VAC20-60-261, Virginia has not adopted the most recent iterations of the Federal regulations and retains 40 CFR 261.4(a)(24) as it appears in EPA's Definition of Solid Waste rule (80 FR 1694, January 13, 2015). The United States Environmental Protection Agency (EPA) granted final authorization to the state of Virginia for revisions to the hazardous waste program under the Resource Conservation and Recovery Act (RCRA) (87 FR 200, October 18, 2022). The specific requirements, with additional details, are described in this report to demonstrate how this facility meets the requirements under the Verified Recycler Exclusion.

RFAAP is seeking to obtain a variance from the Virginia Department of Environmental Quality (DEQ), in order to be considered a verified recycler of spent acid.

RFAAP has been contacted by three facilities, one located in Tennessee, one on-site tenant and the third in Florida, that generate a similar spent acid stream to what is produced at RFAAP, through the manufacturing of Nitroglycerin (NG) and Nitrocellulose. The facilities operate explosive and/or propellant manufacturing processes and R&D operations. RFAAP has recycled this material in the past, however changes in the rules and interpretations caused the cessation of off-site spent acid recycling at RFAAP.

As a part of routine production activities, RFAAP buys and receives weak nitric acid and Nitroglycerin Mixed Acid (NGMA) for use in the manufacturing process. These processes produce an acid stream byproduct, referred to as "spent acid" and/or "pyro acid." RFAAP concentrates purchased weak nitric acid and recycles several spent acidic streams from onsite production activities via the Nitric Acid Concentrator/Sulfuric Acid Concentrator (NACSAC) unit. The NACSAC takes a weak acid or spent acid stream and concentrates the sulfuric and nitric acids. The resulting reclaimed nitric acid and sulfuric acid are recirculated at RFAAP into the Nitrocellulose (NC) manufacturing process. Historically, RFAAP has accepted spent acid from these facilities and recycled this material. However, in the latter half of 2020 this practice ceased, because of challenges to the classification of the materials. Regulatory uncertainty surrounding spent acid has made recycling this material difficult. This spent acid waste stream would be considered a hazardous secondary material under current regulatory definitions.

In order to resume acceptance of spent acid from off site, the information below is provided to explain the legitimacy of the recycling practices and other requirements set forth under the Verified Recycler Exclusion.

Section 2. Conditions of verified recycler exclusion

A. Provisions Applicable to the Hazardous Secondary Materials Generator, the Reclamation Facility, and any Intermediate Facility

1. Prohibition on speculative accumulation

RFAAP will be considered the Reclamation Facility. The Generators will transport spent acid to the RFAAP NACSAC via a tanker truck via interstate travel. There will be no Intermediate Facility, spent acid will leave the generators facility and travel directly to RFAAP to be unloaded. Business units and Operation Managers between RFAAP and the generators will coordinate, approve, and schedule each tanker delivery of spent acid. RFAAP has a limited number of spent acid storage tanks, such that speculative accumulation can not occur. If RFAAP spent acid inventories are too high, no deliveries will be accepted. Each tank will be turned over at least once per month. During a calendar year, RFAAP's process for recycling spent acid is continuous, except during shutdowns for preventative maintenance.

The accepted spent acid will be stored in one of several spent acid storage tanks, based on availability and capacity at time of delivery. The delivery date will be recorded on inventory tickets and the accumulation period will be tracked, traceable, and made available to inspectors upon request.

2. Notification

RFAAP is providing this variance request to fulfill the notification requirements. Information is provided on EPA Form 8700-12, provided in **Attachment I**, to ensure the following requirements are provided:

- Name, address, EPA ID
- Name and phone number of contact
- NAICS
- Exclusion under which hazardous secondary materials will be managed
- When RFAAP expects to begin managing hazardous secondary materials
- List of hazardous secondary materials that will be managed
- Material managed in land-based unit
- Quantity of hazardous secondary material to be managed annually (21 trucks per week)

If at any time, RFAAP stops managing spent acid and does not expect to manage spent acid as hazardous secondary material for at least a year, the facility will re-notify within 30 days using EPA Form 8700-12. RFAAP will also send a notification by March 1 of each even numbered year after variance is issued.

Hazardous secondary materials must be contained
 Spent acid, managed as hazardous secondary material, accepted by RFAAP will be contained in one of several spent acid storage tanks managed in the facility's acid tank

farm. The acid tank farm contains multiple tanks, all are located within secondary containment dikes. Administrative procedures, preventative maintenance inspections, and engineered controls ensure the adequacy and maintenance of the tank farm. Acid will be contained and delivered in tanker trucks and unloaded in most cases within hours of arrival, should anything preclude immediate unloading, transfer of material will be completed within 24 hours of arriving at the facility, and no other shipments would be accepted until the issues are resolved.

RFAAP acknowledges that spent acid released to the environment from storage containers would be subject to hazardous waste regulations, unless immediately cleaned up.

4. Emergency preparedness and response

RFAAP is considered a large quantity generator of hazardous waste, irrespective of the proposed acceptance and storage of spent acid, as hazardous secondary material. Therefore, our site maintains a Hazardous Waste Contingency Plan, updated regularly and shared with local emergency responders. There is an onsite Fire Department, trained and supplied, to respond to major emergencies at RFAAP. Mutual aid agreements exist with multiple local emergency agencies. An intercom and emergency alarm system is utilized at RFAAP and tested at regular intervals, in the event of any major emergency.

Exclusion is limited to recycling performed within the United States
 RFAAP acknowledges that recycling of spent acid will be performed within the United States and solely at the site's NAC/SAC unit.

B. Provisions Applicable to the Hazardous Secondary Material Generator

1. Transport to a Verified Recycler

The generator of the spent acid (hazardous secondary material) will transport spent acid to RFAAP only when RFAAP is considered a verified reclamation facility and has received a variance from Virginia Department of Environmental Quality. There will be no intermediate facility between the generator and RFAAP. Transport will be accomplished by tanker truck and interstate vehicle transport.

2. Recordkeeping

Coordination with generators will confirm that documents will be retained for at least three years. The following will be recorded on bill of lading that will be signed and copied for each delivery of spent acid to RFAAP.

- Date of shipment
- Transporter information
- Generator information (Company name and address)
- Reclaimer information (RFAAP name and address)
- Type (spent acid) and quantity in the shipment

Copies of the records will be electronically submitted to each generator after each delivery from their facility, for verification of receipt of material by RFAAP and that the material has not been discarded. Records will be retained for no less than three years.

3. Provisions Applicable to the Transportation of Hazardous Secondary Materials
Transportation of spent acid from each generator Company to RFAAP may take up to two days.
There will be no transfers or consolidations of the hazardous secondary material between the generator Company and RFAAP. All shipments will be direct to RFAAP and transportation will be accomplished using a licensed hazardous waste transporter.

C. Provisions Applicable to the Reclamation Facility and any Intermediate Facilities

1. Recordkeeping

The same records listed in Section 2 above, will be maintained at RFAAP, as the Reclaimer. Documents will be retained for no less than three years. There will be no intermediate facility and there will be no subsequent shipments offsite for further reclamation. All recycling activities will take place at RFAAP within the NAC/SAC unit

2. Storage of Hazardous Secondary Materials

The details for the storage of the accepted spent acid can be found in Section 1 above. The acid storage tank farm at RFAAP was constructed and is managed with specifications appropriate for storage of multiple acids, and include weak nitric acid, strong nitric acid, strong sulfuric acid, and spent acid. The spent acid that will be accepted by RFAAP will be managed, stored, and recycled in an identical way to the spent acid produced within normal RFAAP production activities.

3. Management of recycling residuals

The NACSAC building is equipped with heat exchangers, pumps, piping, glass lined vessels, control valves as well as meters monitoring temperature, pressure, conductivity, density, and flow. Several utilities service the NAC/SAC process, such as steam, cooled water, chilled water and natural gas. The NAC/SAC recovers spent acids and produces strong nitric acid (SNA) and strong sulfuric acid (SSA), in addition to a process vessel which breaks down organic matter in the spent acid. The spent acid consists mainly of nitric acid, sulfuric acid, water, and trace amounts of energetic material, varying in concentration and composition. The spent acid is fed into the NACSAC to produce the end products of SNA and SSA. Other residuals produced include wastewater and air emissions.

The excess wastewater is sent to the acidic wastewater system, where it is neutralized and ultimately discharged into the New River. RFAAP maintains multiple wastewater treatment sewer lines and stormwater outfalls with permitted coverage under a Virginia Pollutant Discharge Elimination System (VPDES) discharge permit (Permit No. VA0000248).

The NAC/SAC has two air pollution control devices, an ABS tower and a Thermal Oxidizer. The ABS tower recovers and controls nitrous oxide (NOx) gases by utilizing pressure and temperature to react NOx in compressed air with demineralized water, producing weak nitric acid. The weak acid is returned through the system as feed stock. A Thermal Oxidizer is utilized to treat carbon monoxide (CO) produced from the organics in the spent acid. Air

emissions from the NACSAC and acid storage areas are covered under the facility's air permit. The air permit sets limitations, monitoring, record-keeping, testing and reporting requirements that apply to the NAC/SAC and other air emissions sources in the Acid Area.

4. Financial Assurance

RFAAP is a federally owned facility. According to 40 CFR §261.140 (b), States and the Federal government are exempt from the financial assurance requirements of the subpart.

5. Verification of the Recycler

a. The intermediate or reclamation facility must demonstrate that the reclamation process for the hazardous secondary materials is legitimate

The hazardous secondary material, spent acid, will be legitimately recycled as it provides a useful contribution to the existing recycling process and production at RFAAP. Nitric acid and sulfuric acid are valuable ingredients, used by the recycler (RFAAP) for use in commercial production as an ingredient in propellant manufacturing. The spent acid is a valuable source that can be continually recycled into SNA and SSA. It is beneficial to derive SNA and SSA from recycling, rather than to continually purchase as raw materials and dispose of the material once used.

The hazardous secondary material, spent acid, will be transferred, stored, and managed in a safe and appropriate manner, as a valuable commodity, and in a similar manner as the management of raw acids at RFAAP. There are numerous engineering and administrative controls for acid storage (raw or spent) in the acid tank farm which ensures proper storage and containment.

The products of the recycling of spent acid do not contain the following:

- Significant concentrations of hazardous constituents.
- Contain concentrations of hazardous constituents at levels that are significantly elevated from those found in analogous raw products.
- Exhibit a hazardous characteristic that analogous products do not exhibit.

The SNA and SSA produced by recycling via the NACSAC are identical to raw, purchased acids.

b. The intermediate or reclamation facility must satisfy the financial assurance condition in § 261.4(a)(24)(vi)(F)

This section of the regulations directly cite Subpart H under 40 CFR §261 for the requirements for financial assurance. As stated above, states and the Federal government are exempt from the financial assurance requirements of the subpart. Because RFAAP is a federally owned facility, the financial assurance conditions do not apply.

c. The intermediate or reclamation facility must not be subject to a formal enforcement action

RFAAP has not been subject to formal enforcement action and is not classified as a significant non-complier under RCRA subtitle C

d. The intermediate or reclamation facility must have the equipment and trained personnel to safely manage the hazardous secondary material and must meet emergency preparedness and response requirements

The facility has existing equipment and trained personnel to safely manage the hazardous secondary material, spent acid. RFAAP has been recycling and managing the same material in a continuous recycling process successfully for more than 10 years with this facility. RFAAP maintains a Hazardous Waste Contingency Plan, updated regularly and shared with local emergency responders. Additionally, there is an onsite Fire Department, trained and supplied, to respond to major emergencies at RFAAP. Mutual aid agreements exist with multiple local emergency agencies. An intercom emergency alarm system is utilized at RFAAP and tested at regular intervals, in the event of any major emergency.

e. If residuals are generated from the reclamation of the excluded hazardous secondary materials, the reclamation facility must have the permits required (if any) to manage the residuals

As mentioned in sections above, there are wastewater and air emission residuals produced by this recycling activity.

The excess wastewater from NACSAC is sent to the acidic wastewater system, where it is neutralized and ultimately discharged into the New River. RFAAP maintains multiple wastewater treatment sewer lines and stormwater outfalls with permitted coverage under a Virginia Pollutant Discharge Elimination System (VPDES) discharge permit (Permit No. VA0000248).

Air emissions from the NAC/SAC and acid storage area are covered under the facility's air permit. Air emission controls are in place to reduce and minimize any environmental impact from facility operations.

f. The intermediate or reclamation facility must address the potential for risk to proximate populations from unpermitted releases of the hazardous secondary material to the environment

RFAAP is a large facility with several Process Safety Management (PSM) and Risk Management Plan (RMP)-covered processes. These programs require both management of change (MOC) requirements and in-depth evaluations of risks associated with the handling and possible release scenarios associated with strong acid releases. The risks of acid tank farm storage and NACSAC operations are fully evaluated, explored, and updated by Process Hazard Analysis (PHA) every five years or when major process changes occur. The PHA process and the resulting

recommendations help the organization identify a range of risks, evaluate the consequences of hazardous chemical releases for the facility and surrounding public, and mitigate those hazards and risks.

The risk matrix that is utilized during a PHA evaluation, takes into account frequency and magnitude of health, safety, and environmental risks for every node of a system. For the environmental aspect, this includes evaluating releases no matter how small or large, including if releases leave the site boundaries. The last full PHA evaluation of the NAC/SAC and acid tank farms was completed in 2020.

Additionally, there are numerous engineering and administrative safeguards including relief systems/alarms/controls, containment dikes, operating procedures for emergency shutdown and release response.

As stated earlier, the facility has an internal award-winning fire department, fully capable and trained in hazardous material response. RFAAP also maintains support agreements with Montgomery County, Pulaski County and the City of Radford fire departments should additional assistance be required. Onsite responders include trained hazardous materials technicians. Additional support can be mobilized through the state if additional hazardous material teams are required.

D. ADDITIONAL CONSIDERATIONS

Not all states have adopted the new rules and may not consider the transported spent acid a secondary hazardous material, but a hazardous waste. In these and other states, spent acid material spilled would need to be treated as if it were a hazardous waste spill. RFAAP is requiring all spent acid shipments that are to be recycled as secondary hazardous material at RFAAP to be transported by licensed hazardous waste transporters. This will ensure that shipments will be in compliance with all state regulations, and should an incident occur, it is managed by individuals trained in hazardous waste management and spill response.