U.S. ARMY

RADFORD ARMY AMMUNITION PLANT

CUI

Community Meeting Nov. 7, 2024 Christiansburg Public Library Facebook Live

Lt. Col. Adrien G. Humphreys Commander, U.S. Army



Introductions

U.S. Army

Lt. Col. Adrien G. Humphreys Commander Radford Army Ammunition Plant

Robert Davie Deputy to the Commander Radford Army Ammunition Plant Army Staff

Matt Alberts

Environmental Protection Specialist Radford Army Ammunition Plant Army Staff

Laura Dickerson

Environmental Protection Specialist Radford Army Ammunition Plant Army Staff

Mark Kane Public Affairs Specialist Joint Munitions Command

U.S. Army Corps of Engineers

Andrea Henry Project Manager, USACE – Norfolk District

BAE Systems, Inc.

Carla Givens Director, Safety, Health, Environment

Nelson Hernandez Environmental Manager





- Welcome, Introductions, Opening Comments
- Community Activities Update
- Hurricane Helene Flooding Impact, Response, and Recovery
- Environmental Performance Update
- Environmental Performance Highlights
- New Incinerator Facility Update
- Wrap Up, Questions





Community Activities Recap

Army ROTC

- Mountain Valor Fest Primary Sponsor
- Roanoke Annual Veteran's Day Parade
- Engaging Radford University & Virginia Tech ROTC
- Association of U.S. Army Blue Ridge Chapter Engagement

Fishing Rodeo

- Wounded Warrior
- Intellectual Disabilities Agency of the New River Valley
- Montgomery County Animal Shelter
 - Employee voluntary donation drive & engagement
- Feeding Southwest Virginia food bank



Virginia Tech Army Reserve Officers' Training Corps







Hurricane Helene Impact at RFAAP

- Radford Army Ammunition Plant experienced significant flooding
 - Steady-state River level: 3 feet
 - NOAA flood forecast: 19 feet
 - New River Actual level: 31 feet
- Prior to the historic flood, team proactively took action to mitigate impacts from flood
 - Moved 14 tractor trailers of material up ground from the river, prioritizing product based on safety and potential for environmental impact
 - Team continued moving material until deemed unsafe due to rapidly rising water levels in buildings
 - Anticipated products left sealed in warehouse would only be ¹/₂ submerged, and too heavy to move.
- Kept workforce working until no longer safe to do so.
- Workforce remained safe throughout flood event, zero injuries reported.
- Extensive preparation reduced the potential for impact to public health and environment.





Hurricane Helene Recovery at RFAAP

- Plant Assessment: Immediate once deemed safe
 - Restoration professionals to site
 - ~16,000 recovery hours by teammates
- Working with our partners
 - Remain in lockstep with U.S. Army
 - Local first responders
 - Notifications to VA DEQ and NRC on potential releases due to unprecedented water levels (31 ft.) submerging buildings on plant
 - Settling basin overflows
 - Petroleum release
 - Dibutyl phthalate (DBP) Intermediate Bulk Containers
 A liquid plasticizer, found in nail polish, hair spray, and raincoats
- Paused operations to prioritize employee safety and environmental stewardship.
- Full workforce deemed safe to return: Oct. 21
- Continue to work with the Army to modernize RFAAP to reduce future storm impacts.





Hurricane Helene Impact at RFAAP







RADFORD ARMY AMMUNITION PLANT *Radford AAP Environmental Performance*

- Extensive controls and safety measures, including stringent permitting and reporting requirements, are in place to ensure the health and safety of the surrounding communities and to protect the environment.
- Wastewater exceedance in Q2, with root cause identified as naturally occurring organic material in the New River. RFAAP is in the process of implementing corrective actions with the intent to mitigate impact on the facility's wastewater streams.

The exceedance has been reported to Virginia DEQ, as required by RFAAP's wastewater permit. Public health was not jeopardized, and there were no observed impacts to the environment.

- Wastewater exceedance in Q3, with ongoing evaluation to mitigate future occurrences. The exceedance has been reported to Virginia DEQ, as required by RFAAP's wastewater permit.
 Public health was not jeopardized, and there were no observed impacts to the environment.
- Following Hurricane Helene Flooding, Calcium Sulfate, Petroleum, Dibutyl phthalate (DBP) releases filed with Department of Environmental Quality. **Public health was not jeopardized, and there were no observed impacts to the environment.**

Acidic Wastewater Process Improvements:

- More frequent inspections to ensure process controls
- Continued additional testing focused on multiple contributors
- > Evaluations of discharge system for improvement opportunities
- > Evaluations of pretreatment options for mechanical filtration of solids





Radford AAP Environmental Performance

- Team has brought ideas together to increase recycled materials. Recent evaluations include precious metals reclamation of a waste stream that generates 1.5 tons/year.
- In 2023, the facility increased the total amount of material recycled by 27% (includes recovered acids, recovered alcohol, pit cotton recovery, and scrap metal).
- The recycling rate has shown a notable increase, including a recent high of 96.7% in 2023 and exhibiting steady performance in YTD 2024, with a rate of 95.3%.
- Recycling material = reduction of carbon footprint at RFAAP







Radford Army Ammunition Plant

Energetic Waste Incinerator/Contaminated Waste Processor Complex

Hurricane Helene

- Minimal impacts to the EWI/CWP site.
- To ensure the safety of all personnel, site access was temporarily suspended due to adverse weather impacts. Once safe access was restored to the site construction activities resumed.

What is the EWI?

• The EWI/CWP will thermally treat energetic waste in an emission-controlled environment.

Why it's important:

- The EWI/CWP facility is an alternative technology to the open burning ground and provides a modern solution for safer waste removal with air pollution control devices.
- Construction of the new EWI/CWP facility will nearly eliminate the use of the open burning ground at RFAAP.
- Radford is ahead of DOD requirements and the community's involvement is a strong part of the project's success.







Radford Army Ammunition Plant

Energetic Waste Incinerator/Contaminated Waste Processor Complex

Jul 2025 Construction & Commissioning Complete

2024 Construction In Progress We Are Here

- Fall 2024 4 100% Design Complete
- Fall 2023 4 100% Design and Construction Underway

Aug Receive Minor NSR Air Permit

MayReceive Stormwater Construction General2023Permit/Start Sitework

Dec 2022 Received RCRA Class 3 Permit Modification

Dec 2022 Final 95% Design Complete

Aug - Dec Submission of Environmental Permits for review 2022

May 2022 Interim Design Complete

Sep 2021 Contract Award



OVERVIEW

- This effort provides support under the facilities upgrade and modernization program and will ensure RFAAP continued compliance and ability to treat current waste streams.
- Contract Awarded by USACE Norfolk District to Parsons Government Services: \$145M









Questions







Information is Available

Our commitment to responding to your questions doesn't end tonight. Resources exist for you to research information on your own or ask us questions.

Resources

Facebook: Like us at Radford Army Ammunition Plant

Homepage: www.jmc.army.mil/Radford/RadfordDefault.aspx

Email: USARMY.RIA.JMC.MBX.AMSJM-PA@ARMY.MIL

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Acid Recycling Process



Acid recycling reduces the amount of waste acid that needs to be treated by the wastewater system and reduces RFAAP's need to purchase and transport in acid from offsite.

