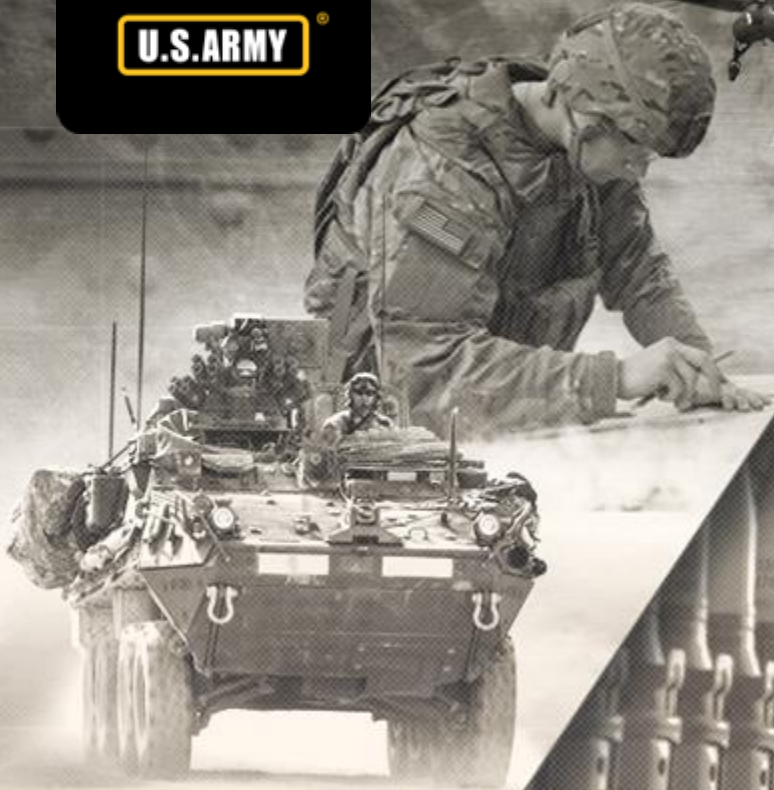


UNCLASSIFIED



U.S. ARMY



Holston Army Ammunition Plant

Community Meeting
12 December 2018
ETSU Allandale Campus
6:00 – 7:30 PM

COL Luis Ortiz
Commander, U.S. Army

UNCLASSIFIED



Agenda

- **Welcome, Meeting Guidelines**
- **Introductions**
- **Information About Holston Army Ammunition Plant**
- **Information About Our Environmental Program**
- **Questions and Answers**



Like us at [Holston Army Ammunition Plant](#)

Mr. Chris Finley





Introductions

U.S. Army

COL Luis Ortiz
Commander,
Pine Bluff Arsenal

Joe Kennedy
Commander's Representative
Holston Army Ammunition Plant

Laura Peters
Environmental Engineer
Holston Army Ammunition Plant

Justine Barati
Director of Public &
Congressional Affairs
Joint Munitions Command

BAE Systems

Bob Winstead
BAE Systems Platforms and Services
Environmental Manager

William Shelton
Environmental Manager
Holston

Christopher Finley
Communications Manager





Participant Guidelines

- **In order to ensure that the time invested in these events is productive for all parties, the following guidelines will be adhered to by all participants:**
 - All questions will be held until the end of the briefing.
 - All participants are to treat each other with courtesy and respect.
 - When someone is speaking, do not interrupt them.
 - Raise your hand if you have a question or comment.
 - Keep questions and comments concise.
 - Do not become verbally combative with other attendees or participants.





Participant Guidelines

■ Recording Devices

- Notification of intent to record, photograph or film must be stated before the start of the meeting.
- The individual filming must sit or stand at the side or back of the room, in order to ensure minimal disruption or inconvenience to other participants.
- Using the recording for commercial purposes without explicit consent from the filmed party is strictly prohibited and subject to legal ramification.





Participant Guidelines

- **Failure to comply with these guidelines will result in the following course of action:**
 - First instance of non-compliance will receive a verbal reminder of the guidelines.
 - Second instance of non-compliance will receive a verbal reminder of the guidelines and notification that a third instance will result in removal from the meeting.
 - Third instance of non-compliance will result in the offender being escorted out of the meeting area.





Holston Army Ammunition Plant

Mission

Holston Army Ammunition Plant (HSAAP) manufactures a wide range of explosives for the DoD.

Vision

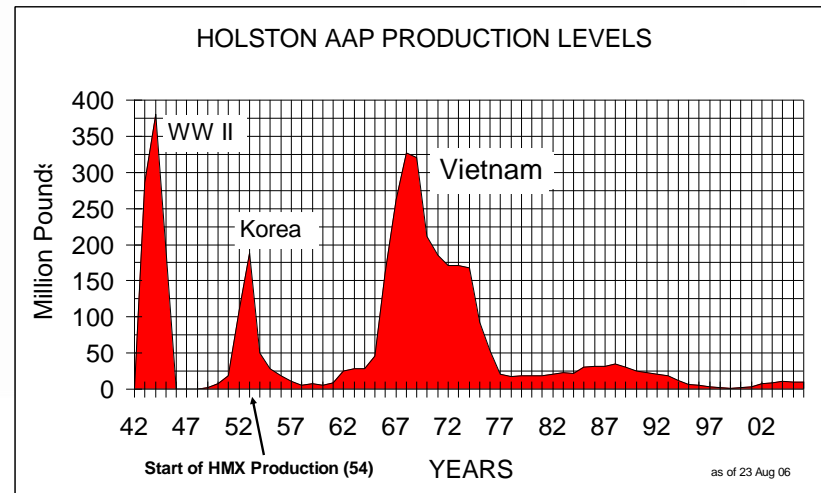
Worldwide center of excellence for the production and development of explosives.





Chronology

- TNT Depth Charge Required Direct Hit To Penetrate U Boat Supersub Hulls, Need RDX
- Feb 42 – 50 TEC Employees Staffed Wexler Bend Pilot Plant in Kingsport, TN
- Jun 42 -- U.S. Gov't Authorized TEC to Design & Operate Holston Ordnance Works (HOW)
- April 20, 1943 -- Production Of Explosives Commenced at HOW
- By Jan 1944 -- HOW Produced & Shipped 1.1M Pounds A Day of Composition B
- Reactivated for Korean Conflict & Renamed Holston Army Ammunition Plant



Mr. Joe Kennedy





Holston Army Ammunition Plant



- **Constructed in 1942/43**
- **GOCO-Government Owned Contractor Operated Facility**
- **Acreage-6042; Active Buildings-399; Magazines—130**
- **Produces High Explosives**
- **BAE Systems assumed operation on January 1,1999**

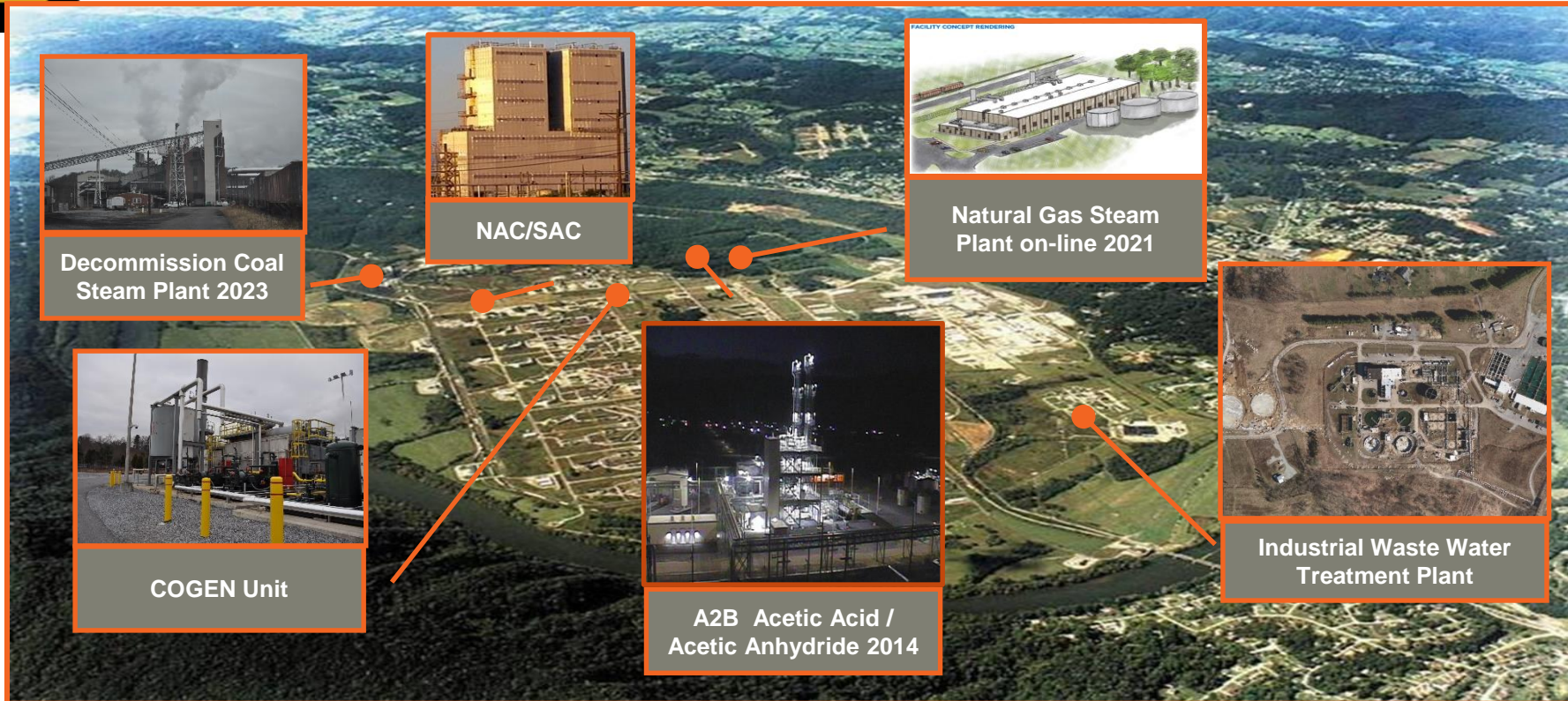
Mr. Joe Kennedy





U.S. ARMY

Modernization Overview



- Doubling capacity through RDX and IMX Expansion programs
- Starting 2003 over \$1.0+ billion invested
- Future Modernization will continue to investment hundreds of million of dollars
- > 50 Local Contractors Supporting Modernization





Holston Employment

- Total permanent Employees at Holston: 1100
- Modernization contractor personnel: app. 250



BAE SYSTEMS

Record of Consistent Job Creation

Mr. Bob Winstead





Armament Retooling Manufacturing Support

Developing Community Partnerships

Site Commercial Development

- ARMS Program
- 15 Tenants
- 186 Personnel
- \$95M Economic Impact

Joint Munitions Command

Revenue Sharing



BAE SYSTEMS

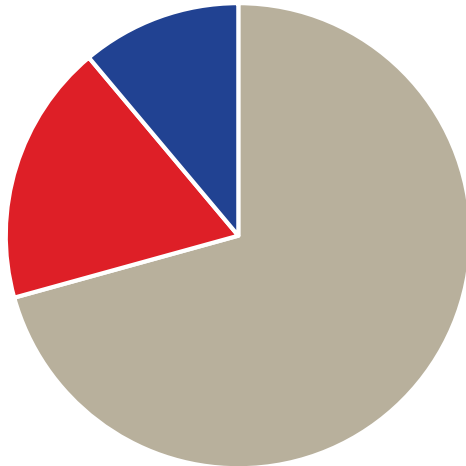




Community Investment

Giving Back

- The employees at the Holston Army Ammunition Plant have a long tradition of giving back.
- Our community investment includes nearly 30 employee-based volunteer and fundraising initiatives and corporate giving.



■ Military/Veteran Outreach ■ STEM/Education ■ Other



Mr. Chris Finley



Environmental Initiatives

- **HSAAP is Committed to Fostering a Healthy Environment.**
 - Surveys to document both Threatened/Endangered (T&E) and non T&E species
 - Fawn tagging to help understand the population and threats
 - Oral rabies vaccination program in cooperation with USDA
 - Catch and release fishing events on the Holston River



- Photographic inventory of flora and fauna
- Bluebird and wood duck nest box program
- Regular monitoring of two bald eagle nests





Environmental Initiatives Cont'd

- **\$142+M Acetic Acid / Acetic Anhydride capability powered by natural gas produced steam and natural Gas powered Co-Generation Unit (provide steam and +6MW electricity). Co-Generation Unit utilizes natural gas to provide steam and electricity (+6MW) to operate new acetic acid/acetic anhydride capability**
- **\$132+M expansion of industrial waste water treatment plant, Complete April 2020**
 - Modernization of the industrial wastewater facility is to ensure consistent compliance for all regulated pollutants.
- **\$100+M investment in a Nitric Acid Concentration Unit to reuse spent nitric acid**
 - Reducing hazardous waste generation; reduce off-site spent nitric acid disposal by ~75%
- **\$ 148+M Activate new natural gas steam plant no later than 2021**
- **Decommission coal fired steam plant no later than 2023 reducing overall criteria pollutants by ~1400 tons per year**





Open Burning (OB) of Waste Material

Why Open Burning is Used

- **Only Safe means of disposing of explosive production wastes and explosive contaminated wastes.** Minimizes handling by workers, which leads to safer operations.

- **Tennessee Air Pollution Control Rule (TAPCR) TAPCR 1200-3-4-.04(1)(k):** “Fires consisting solely of non-radioactive, **explosive**, shock sensitive, chemically unstable, or highly reactive wastes, packaging, or contaminated or potentially contaminated combustible materials. Priming materials used to facilitate such burning shall be limited to #1 or #2 grade fuel oils, and wood waste. The provisions of Rule 1200-3-4-.03(4) as it pertains solely to “other rubber products” and “other plastics” are waived for this exception. Open burning conducted under this exception is only allowed where no other safe means of disposal exists.”

- **Landfill disposal of contaminated material could result in an explosives related incident.**

- **Stockpiling the materials without disposal creates an additional safety risk.**





Open Burning (OB) of Waste Material

3rd Party Studies

▪ Department of Defense Inspector General

- Response to Congressional request to determine compliance with permits
- Visited Holston on October 24, 2018
- Holston is compliant with its permit conditions

▪ National Academy of Sciences Report on Alternatives for the Demilitarization of Conventional Munitions

- The scope of the study was Open Burn/Open Detonation (OB/OD) at Demilitarization Facilities
- Additional handling requirements to prepare munitions for disposal may lead to an increased safety risk. Some facilities use automation to minimize the risk, but this handling is the downside of most technologies.
- Many technologies have lower throughput than OB/OD, but remains munition and technology specific.
- There will always be some munitions that need to be treated by OB/OD for safety reasons.





Open Burning (OB) of Waste Material

Army Memo

- **Memo from the Department of the Army Office of the Assistant Secretary of the Army for Environmental, Safety and Occupational Health (DASA-ESOH)**
 - Signed on November 1, 2018
 - Encourages the Army to make a concerted effort to reduce reliance on OB
 - Addressing these concerns through our Alternative Technologies Study





Open Burning (OB) of Waste Material

HSAAP Efforts

- HSAAP continues to move forward under 4 Phased approach
 - Initiated in 2015
 - **Phase 1:** Waste Quantification
 - **Phase 2:** Study of technologies to identify any for safe implementation at HSAAP
 - Scheduled Completion Date of March 2019
 - **Phase 3:** Design of any safe alternatives identified in Phase 2
 - **Phase 4:** Construction of any safe alternatives






Alternative Technologies Study Update

■ Phase 2: Reviewing 25 technologies

- Maturity against HSAAP waste streams
- Safe for all portions of the process
- Department of Defense Explosive Safety Board (DDESB) approval history
- Reliability of past applications

■ Challenges

- Very few DDESB approved technologies
- Propellant vs. Secondary Explosives
- Pre-processing and feed systems
- Treatment of munitions vs bulk explosives
- Implementation & Scalability of Technology
- Permits



**We are dedicated to
finding an alternative
technology solution**





Holston Army Ammunition Plant

Next Community Engagement

- **Commander's Community Meeting**
April 11, 2019
6:00 P.M. – 7:30 P.M.
ETSU Allandale Campus





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 questions of our personnel.

Resources

Facebook: Like us at [Holston Army Ammunition Plant](#)

Homepage: <http://www.jmc.army.mil/Installations.aspx?id=Holston>

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Holston Army Ammunition Plant



Questions

