

Camp Minden Community Meeting

May 28, 2015

6:30 to 8:00 PM

Overview of Agenda

- Background
- Selection Process
- Technology Selected—focus on EPA's views on pollution controls and monitoring
- Next Steps—focus on EPA's views on funding and timeline
- Questions and Answers

Tonight is Not the Final Word

- Broader public meeting scheduled for June 11;
 - Citizens' Advisory Group meetings;
 - Workshops on Key topics
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- May have to limit questions AND answers to 2 minutes each today.

Quick Logistics

- Restrooms;
- Cell phones;
- Today's Powerpoints—posted on EPA website by next week
- Donations for food

Recommended Ground Rules

- Attack the issues and model civility with each other.
- Share the time.
- Offer possible solutions when identifying problems.
- If you speak to the media following this media, speak only on your own behalf.
- Skip the acronyms.

Background – How Did We Get Here and Key Documents

- October 2012 Bunker Explosion
- October 28, 2014, EPA's Initial Action Memorandum
- October 28, 2014, Administrative Order on Consent
- February/March 2015, Dialogue process
- March 18, 2015, EPA's Amended Action Memorandum
- Operational Workplan

Background - Camp Minden Dialogue

Dialogue Goal:

Identify and evaluate alternative methods to open burn for the expeditious and safe removal of M-6 and Clean Burning Igniter (CBI) at Camp Minden

Dialogue Participants:

- Citizens;
- Scientists;
- Community Groups;
- Local elected leaders;

Ex-officio Members:

- EPA
- Army
- LMD (National Guard)
- State Agencies

Background - Attributes for a Successful Approach to Clean-up

1. Select a proven technology.
2. Meet the highest possible standards for emissions.
3. Monitor everything.
4. Get it done in time.
5. Control Risk of PCDD/F, hazardous air pollutants, and other persistent organic pollutants.
6. Leave nothing behind.
7. Control all risks or spills and releases.
8. Limit the creation of waste.
9. Focus on safety and health.
10. Focus on stability.
11. Continuous communication to community.
12. Consider a strong prime with the potential for multiple technologies.
13. Explore potential recycling/reuse approach.

Background - Technologies that Show Promise

- Contain Burn Indoors;
- Humic Acid Catalyzed Hydrolysis-Neutralization;
- Microwave Reactor;
- Rotary Kiln;
- Super Critical Water Oxidation (SCWO);
- Tunnel Furnace

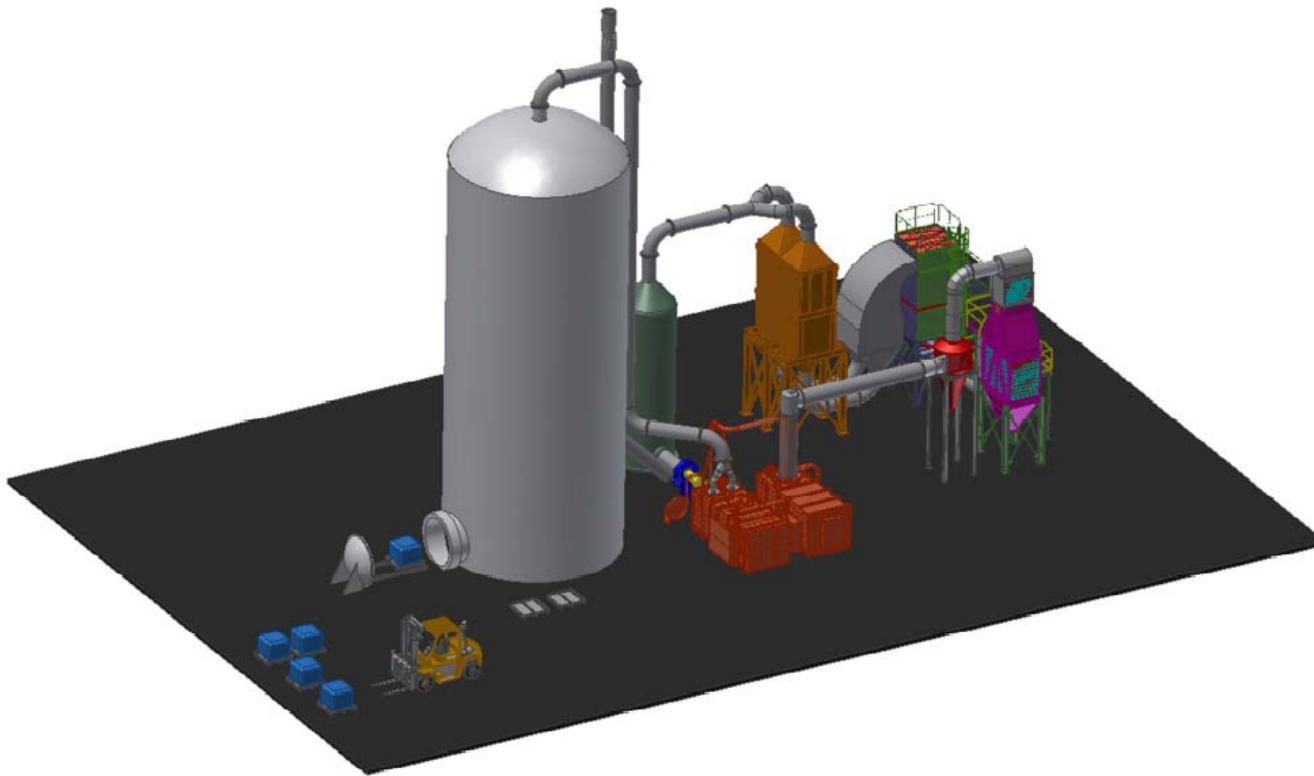
Vendor Selection Process

- Companies proposed their plan for destroying the M-6 to LMD.
- LMD evaluated these proposals based on their criteria and keeping Dialogue criteria in consideration.
- LMD involved two Dialogue participants (both scientists) directly in process.
- Technology: Contained Burn
- Contractor: Explosive Service International (ESI)

EPA Vendor Review Process

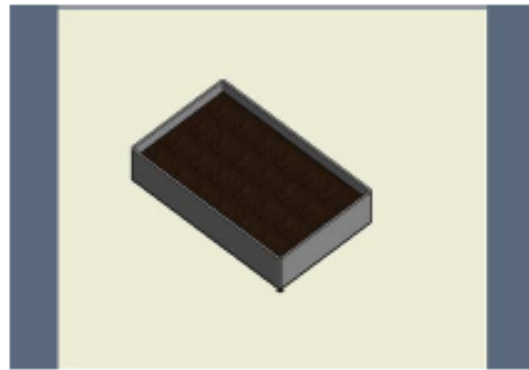
- On April 14, 2015, LMD submitted its contractor recommendation to EPA
- The proposal was reviewed by EPA experts and compared to the 13 Attributes
- On May 8, 2015, EPA responded to LMD's proposal which included technical feedback

Contained Burn System - Overview



Camp Minden Contained Burn Layout – Single Chamber with All PAS options show

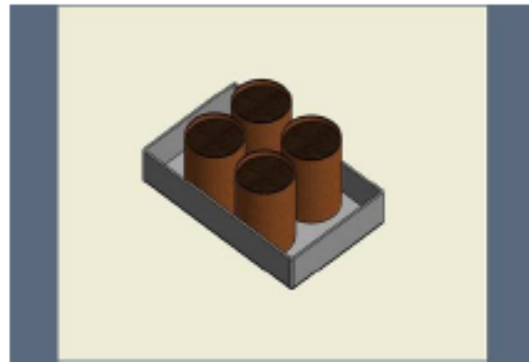
Contained Burn System - Overview



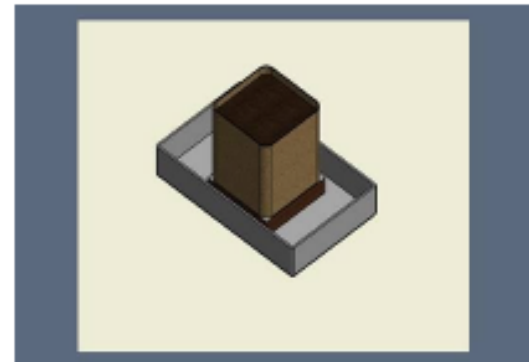
Neat Product



Boxes



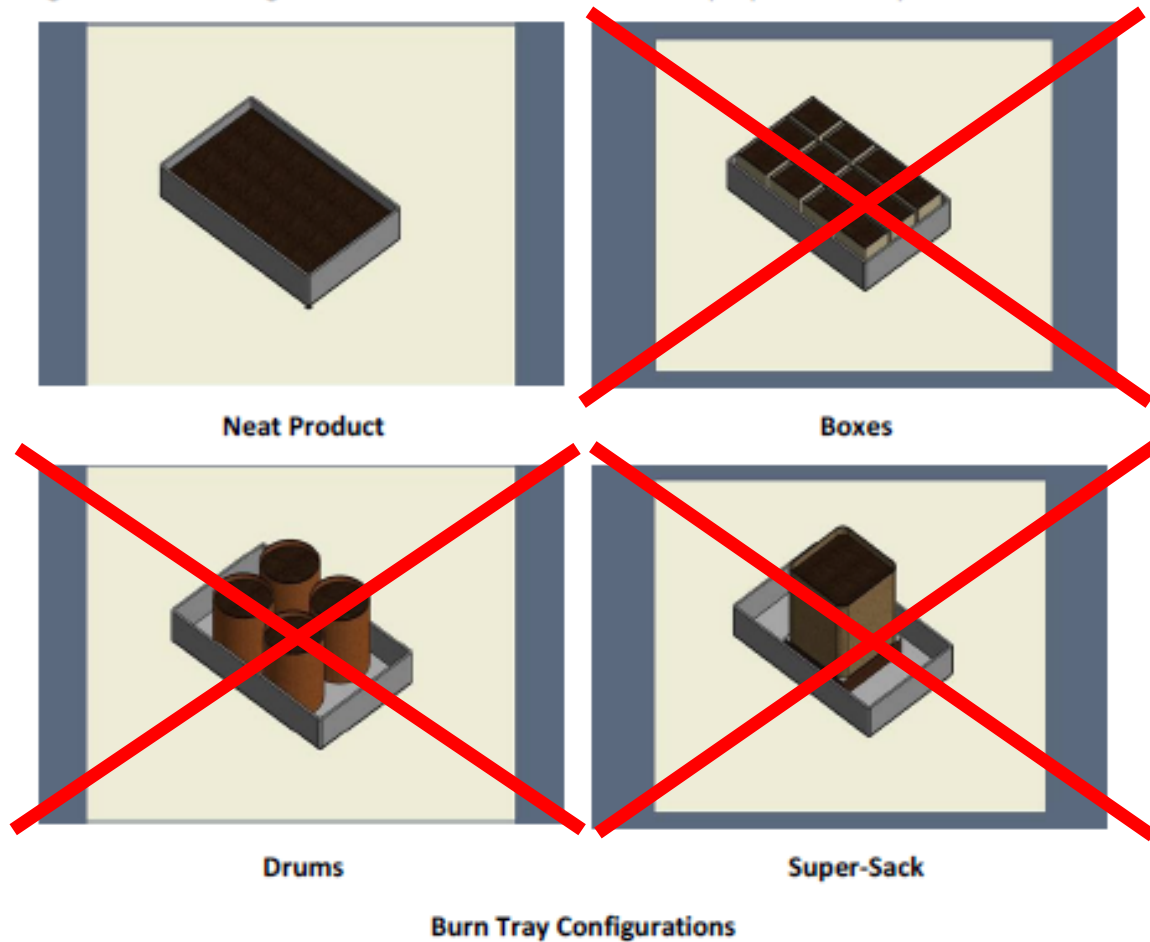
Drums



Super-Sack

Burn Tray Configurations

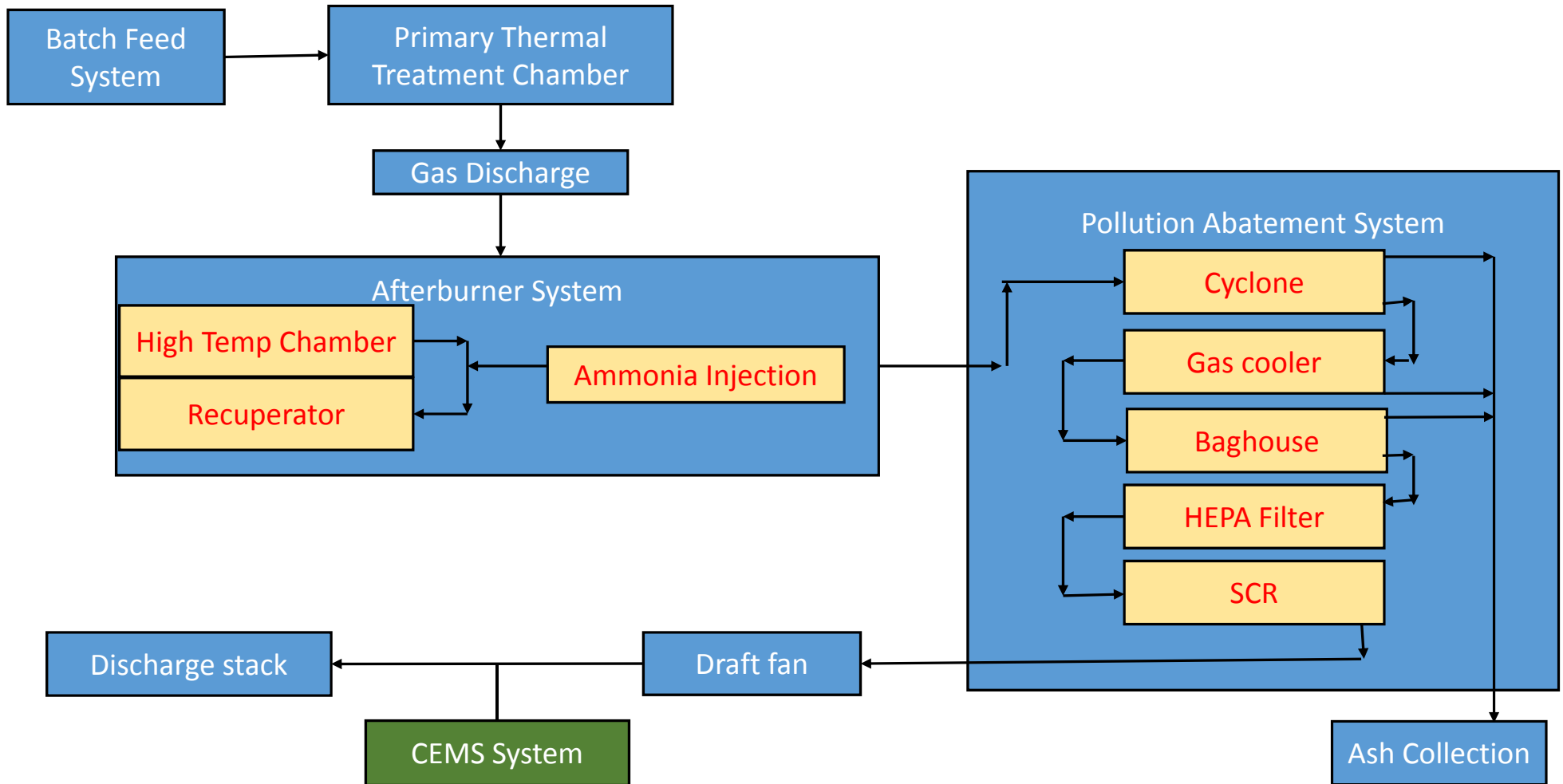
Contained Burn System - Overview



Contained Burn System - Overview



Contained Burn System – Process Flow



Contained Burn System - RCRA Thermal Treatment Unit

- Subject to RCRA Subpart X Requirements for Miscellaneous Treatment Unit
- Vendor will comply with MACT EEE Hazardous Waste Combustion Emissions Standards

MACT EEE Hazardous Waste Emissions Standards

- Destruction and Removal Efficiency (DRE) for Organics (99.99%)
- Dioxins/Furans (0.11 ng)
- Particulate Matter (0.0015 gr/dscf)
- Total Chlorine (21 ppmv)

Performance Test Prior to Normal Operations

- Demonstrate compliance with the emissions standards and DRE by collecting samples from the stack.
- Establish operating conditions which must be maintained during normal operations for combustion chambers (min temperature) and all air pollution control equipment (waste feed rate, stack gas flow rate, pressure drop, etc.).

Air Pollution Control Equipment

- Cyclone (5-10 μm ; 99.9%) (2.5 μ ; <99%)
- Baghouse (5-10 μm ; >99.99%) (2.5 μ ; >99.99%)
- HEPA Filter (5-10 μm ; >99.9999%) (2.5 μ ; >99.9999%)
- Selective Catalytic Reduction (SCR) for NO_x Control

Stack Emissions Monitoring

- Carbon Monoxide (less than 100 ppm)
- Total Hydrocarbon (less than 10 ppm)
- NOx (less than 200 ppm)
- Oxygen
- Stack Gas Flow Rate

CYCLONE



BAGHOUSE



HEPA



Air Sampling and Monitoring, During Ramp-up / Start-up Phase

Stack

- Continuous monitoring for CO, NO_x, O₂, Total Hydrocarbons, and stack gas flow rate.
- Sample for VOCs, SVOCs (includes DNT, DPA, DBP), and Dioxins/Furans

Community

- Continuous monitoring **daily** consistent with the baseline air monitoring (PM_{2.5}, NO_x, SO₂, CO, CO₂)
- Sample for VOCs, SVOCs (to include DNT, DPA, DBP), Dioxins/Furans, and PM_{2.5}

Air Sampling and Monitoring, During Normal Operations

Stack

- Continuous monitoring for CO, NO_x, O₂, Total Hydrocarbons, and stack gas flow rate.
- Sample periodically **every three months** for VOCs, SVOCs (includes DNT, DPA, DBP)

Community

- Continuous monitoring **weekly** consistent with the baseline air monitoring (PM_{2.5}, NO_x, SO₂, CO, CO₂)
- Sample **weekly** for VOCs, SVOCs (to include DNT, DPA, DBP), Dioxins/Furans, PM_{2.5} and PM₁₀

Water Assessment

- We are planning for water assessment.
- We will have a workshop to discuss the water assessment prior to implementation.

Next Steps and Future Actions

- Response Funding
- Construction and Operation Schedule
- Citizens' Advisory Group
- Future Workshops and Meetings

Questions and Answer Period

Camp Minden Citizens' Advisory Group (CMCAG)

- Our mission is to hold the Camp Minden remediation process to the quality standards determined by the Dialogue Committee and to provide immediate and effective communication of said process status to the public.
- Current CAG membership

How to Participate:

Meetings:

- Held the second Monday of each month
- 6:30 p.m. at the Family Life Center of Doyline's First Baptist Church
- Meetings are also open to the public and we always welcome new CMCAG members.

How to Become a CMCAG member:

- Commit to attending meetings and fulfilling mission by submitting a signed application to CMCAG Board Secretary/Treasurer Alice Bond.
- Applications can be picked up today at the back of the room!