

## **M6 Disposal Feedback from Regions February 24, 2015**

### **Region 1**

Response Pending

### **Region 2**

Region 2 has not dealt M6 Propellant.

### **Region 3**

The Letterkenny Army Depot did some open burning of M6. There are significant issues with transportation of unstable M6 propellant. A representative from Letterkenny said that they have conducted open burning of M6. He didn't have the totals on hand but could dig through the files if we needed it. They would burn approximately 500 – 1,000 lbs per burn tray. The open burning area is far away from their fence line and they had no issues with the public.

### **Region 4**

Places like Anniston and Redstone are disposing of propellant but they are doing it under state permits for controlled open burning. Modeling, risk assessments, oversight of burns are used to oversee the process.

Steve Cobb, with the State of Alabama, cited other attempts to recycle propellant at Anniston that failed conversion to mining explosives stopped after the market collapsed for that material; several years ago Anniston tried to convert small quantities of propellant to fertilizer but that was abandoned after a worker was killed in an explosion from the process.

### **Region 5**

Response Pending

### **Region 7**

One of the PRPs is General Dynamics - which is one of the Region 7 permitted facilities in Joplin. General Dynamics said they could treat the waste - problem is capacity - it would take decades for them to process the waste at their operational capacity.

### **Region 8**

Response Pending

### **Region 9**

A Region 9 OSC dealt with a small quantity of M6 found at a site with thousands of pounds of other explosives a few years ago and was open burned. This was handled as an emergency response.

## Region 10

On site rotary kiln incineration is the best demonstrated technology to treat bulk gun propellants like the M6 that they currently have at Camp Minden. Here's what the treatment system looks like:

<http://www.eldoradoengineering.com/thermal-disposal/explosive-waste-incinerator-ewi/>

Umatilla used to have an APE 1236 EWI that treated small arms ammunition that contains gun propellants. I have attached background information on the current version of the treatment system and trial burn results for gun propellants that contain dinitrotoluene, such as the M6 at Camp Minden.



APE-1236-M2-Fact-SAPE-1236-Trial-Burn Residues-Burn-Pan- Army-Demilitarization-heet-Tooele.pdf -Results-DDESB-SerOB-Gun-Propellantson-Manual-TM-9-13