Portable Thermal Destruction Chamber (PTDC)

East Camden, Arkansas

PIKA

May 2007
Company Overview

- SDB, 8(a) certified, DCAA Audited
- PIKA offers turn-key services in:
  - Environmental Engineering and Remediation
  - Munitions Response - Investigation and Remediation
  - Radiological Engineering, Decontamination and Demolition
  - Construction Management
  - Hazardous Waste Management
  - Information Technology
- Commitment to Safety, Quality and Project Delivery
- Proven Track Record for successful completion of performance based contracts
Operational Infrastructure

- BATF License
- Portable Thermal Destruction Chamber (PTDC)
- DOD Certified Waste Brokering
- U.S. DOT Hazardous Materials Certificate of Registration
- Storage Capabilities in Indiana and Arkansas
- Environmental Permits to Operate in Indiana and Arkansas

PIKA
Objective & Background

- **Objective**
  - Demilitarization of Small Arms
  - .50-caliber and less

- **Background**
  - Surplus Arms – Aged & Obsolete but no less dangerous
  - Security & Storage of Small Arms is Expensive
  - Open Burn/Open Detonation methods coming under increasing criticism
  - The Portable Thermal Destruction Chamber (PTDC) is the preferred alternative

PIKA
H-116A, PTDC Current Location - East Camden, AR

Legend
- Storage Magazine Location
- Roads
- Rail Roads
- Streams
- Water Bodies

H-116A Site Map
Highland Industrial Park
East Camden, AR 71731

Drawn By: [Name]
Drawn On: [Date]

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Project Team

Highland Industrial Park

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UXO Site Manager
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Department of the Army

Health & Safety
Quality Assurance
Regulatory Specialist

PIKA Site Personnel
UXO Technician
Equipment Operator
Material Handler

Subcontractors
Fuel Supply
Metal Recycling
Equipment
PTDC Specifications

- Mobile Unit - Mounted on Tandem Trailer
- Consists of a Primary Chamber & Internal Burn Box made of 3/8” Mild Steel
- Fuel - Three 500K BTU Propane Torches
- 200 lbs. of Small Arms per cycle, 1,300 – 1,500 lbs. per day
- Internal Burn Box Temperature 1,200 – 1,800° F
- 8-ft Stainless Steel Stack for Exhaust
- Stack Temperature 1,400° F, designed to destroy VOCs
PTDC - Photo Documentation

One Torch Connected to Stack

Stack

Primary Chamber

Tandem Trailer for the PTDC
PTDC - Photo Documentation

The Two Torches Connected to the Primary Chamber and the Torch Connected to the Stack are fueled by an External Propane Source
Schematic of PTDC Site Layout

- **Fuel Supply Piping**
- **Propane Tank**
- **Blast Protection**
- **Holding Area for Metal Awaiting Recycling**
- **Cooling Area For Burn Boxes**
- **Unpacking Area With Work Tables**
- **PTDC**
- **SITE TRAILER**
- **PARKEING**
- **Temporary Holding Area for the Small Arms**
- **ECM**

**400 ft. x 400 ft. Area With Fence**
Thermal Destruction of Small Arms

BEFORE

Steel or Brass Casing

AFTER

Lead Bullet
Small Arms Demilitarization

Small Arms Before Demil

Metal Scrap After Demil
EPA Policy Memo June 6, 1988 -- Small Arms .50-calibre and less are not subject to Subtitle C Hazardous Waste Requirements

Small Arms intended for disposal, are not “reactive” within the meaning of 40 CFR 261.23(a)(6)

“Potential-to-Emit” Calculations – PTDC qualifies for an Exemption from IDEM & ADEQ Air Permitting Requirements

PTDC operations comply with all issues relating to Air Pollution, Water Pollution, Soil, Noise, Hazardous Wastes and other Environmental Concerns

PIKA Insurance Certificate
Contracts and Clients

- **Current & Immediate Contracts**
  - Contract with the Department of the Army Joint Munitions Command Demil Group at Rock Island Arsenal

- **Potential Clients**
  - Indiana Ordnance Works (future expansion for limited HD 1.2.1 and HD 1.3 material)
  - Police & Fire Departments, Bomb Squad
  - ATF, EG&G
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