



Portable Thermal Destruction Chamber (PTDC)

East Camden, Arkansas





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



Objective & Background

❖ Objective

- ✓ Demilitarization of Small Arms
- ✓ .50-caliber and less

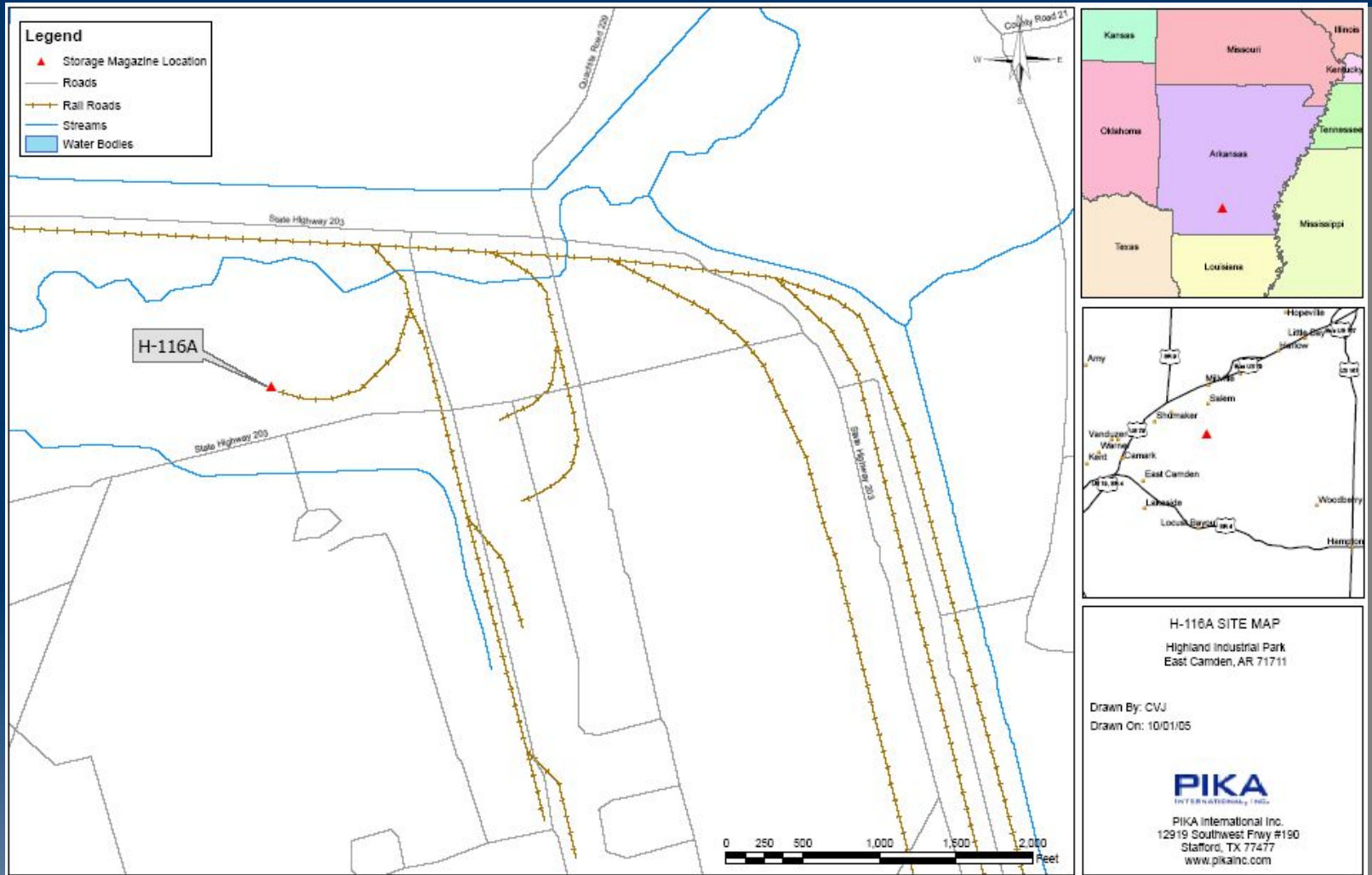


❖ Background

- ✓ 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

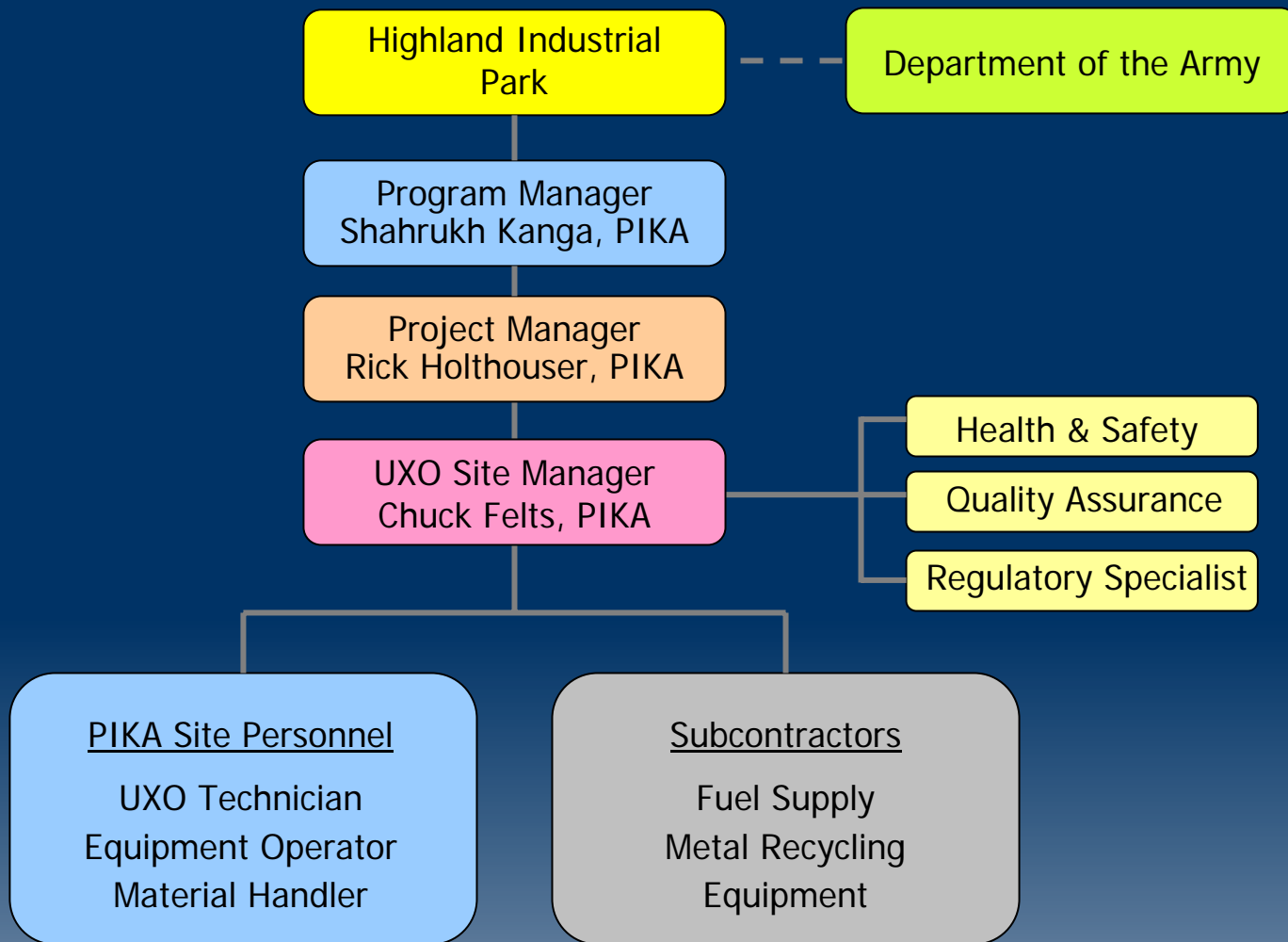


H-116A, PTDC Current Location-East Camden, AR





Project Team





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^o F
- ❖ 8-ft Stainless Steel Stack for Exhaust
- ❖ Stack Temperature 1,400^o F, designed to destroy VOCs

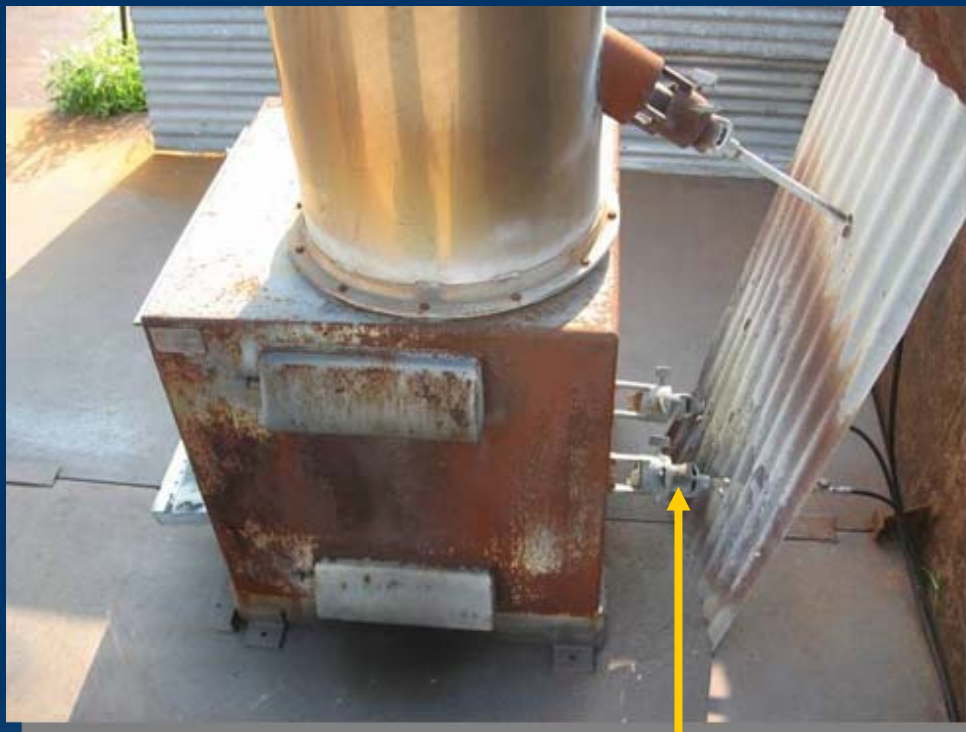


PTDC – Photo Documentation





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The Two Torches Connected to the Primary Chamber and the Torch Connected to the Stack are fueled by an External Propane Source



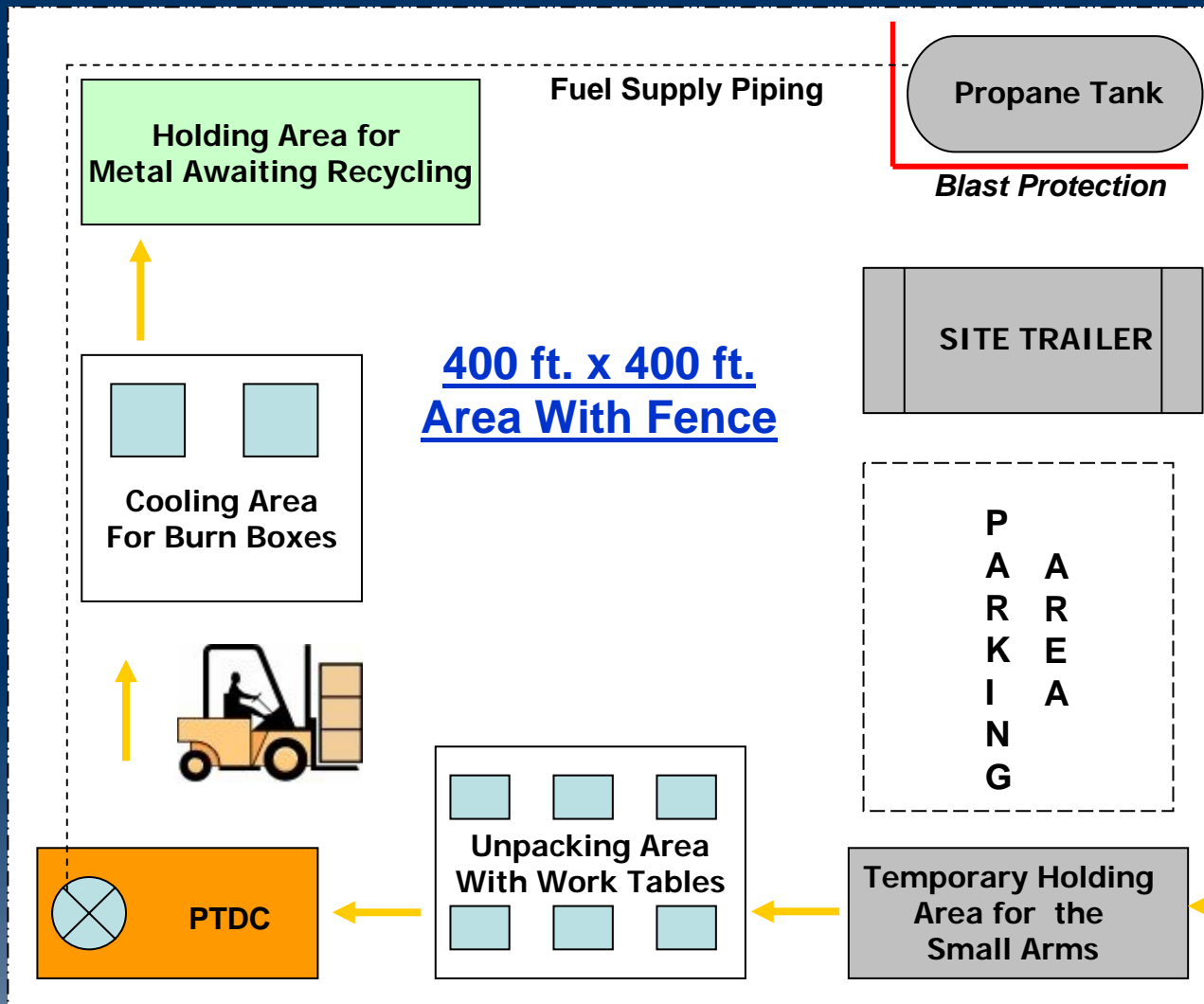


PTDC – Photo Documentation





Schematic of PTDC Site Layout



ECM





Process Flowchart



Receipt of Shipment



Unloading of Material



Inspect/Receiving Log



Unpacking of Ammo



Thermal Destruction of Ammo



Loading PTDC with Internal Burn Box



Loading Internal Burn Box w/ SAA



Inspection & Metal Separation



Recycling of Scrap Metal



Certificate of Destruction



Thermal Destruction of Small Arms





Small Arms Demilitarization



Small Arms Before Demil



Metal Scrap After Demil





Regulatory & Administrative Framework

- ❖ 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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Questions?

