

**ISSI Unexploded Ordnance, Inc.
ORDNANCE & EXPLOSIVE REMEDIATION
Huntsville, Alabama**

**ADDENDUM TO
ORDNANCE & EXPLOSIVE
SUPPORT SERVICES**

**LAKE ONTARIO ORDNANCE WORKS
TNT PIPELINE REMOVAL PROJECT,
LEWISTON, NEW YORK
WORK PLAN**

CONTRACT NUMBER: DACAW49-00-D-002
DELIVERY ORDER NUMBER: 0002
SEVENSON PROJECT NUMBER: G-139
CLIENT NAME: U.S. Army Corps of Engineers,
Buffalo District
PRIME CONTRACTOR: Sevenson Environmental Services, Inc.
PROJECT TITLE: OE Support Services
PROJECT LOCATION: Lewiston, New York
DATE: 25 July 2000

Date
8/24/00

Signature

Approved As Noted

Approved
USAED, BUFFALO

Insert the following Paragraph in "Chapter 4 OE Operational Plan"

4.1.7 TNT CRYSTALLINE REMOVAL AND DISPOSAL

4.1.7.1 In the event that crystalline TNT nodules/lumps are encountered the following procedures will be followed:

4.1.7.1.1 Equipment needed to gather and transport the crystalline TNT nodules/lumps is as follows:

ITEM	AMOUNT
Plastic non-sparking containers (ie. 5-Gallon size)	As many as needed
Mineral Oil	Enough to cover nodules/lumps
Plastic non-sparking tools (scoop/trowel/shovel)	One or Two
Truck with wooden bed/ Plywood sheet	One
Fire Extinguisher	Two each
Line/ rope/straps to secure the containers	As required
Wooden boxes to hold plastic containers in truck	As required
Sand Bags various sizes to cushion plastic containers	As required
Gloves, Protective	As required

4.1.7.1.2 To gather the crystalline TNT nodules/lumps two UXO personnel will establish an exclusion area of 2000 ft around the site to minimize the amount of personnel exposure during gathering operations. A plastic non-sparking container will be prepared with sufficient mineral oil to cover the anticipated nodule/lumps prior to operations. The prepared container will be carried as close to the nodule/lump site as is safe and placed on the ground. The nodule/ lump will then be picked up by either a tool (see list above) or by hand , with protective glove as decided by the UXO team and placed into the plastic container gently, insuring it is completely covered by mineral oil. Only a limited number of nodules/lumps will be placed in the same container and only one level (no stacking). When the container is determined to be safely full it will be carried to the nearest roadside to the site . In the event that multiple plastic containers are required the containers can then be loaded on the transportation truck (see 4.1.7.1.3 below) or placed in a sandbag barricade. The barricade will be constructed to completely surround the container/containers and be high enough to be at least one sandbag higher than the top of the container. For storage of explosives the exclusion zone will be a 670 ft radius around the product.

4.1.7.1.3 Transportation of the containers will be by truck. The truck will have a wooden bed/plywood covering and two fire extinguishers. The truck will be placarded on all sides by Explosive Placards for a 1.4 classification. All containers will be secured in the bed of the truck in wooden boxes and/or sandbags. They will further be secured with line/straps and /or sandbags to absolutely prevent movement during transport. During transport the truck will take the most direct route that is approved for transport of explosive to the disposal site. Travel speeds will not exceed 20 miles per hour and all traffic rules will be obeyed. No one will be allowed to ride in the bed of the truck. Two UXO personnel will ride in the cab with one UXO person observing

the loaded containers at all time. The truck should be proceeded by an escort vehicle to prevent any accidents/problems.

4.1.7.1.4 Operations at the Disposal site will follow the procedures as listed in paragraphs 4.1.6.1.1.2, 4.1.6.1.1.3, and 4.1.5.1.2. In addition a metal sheet or pan will be utilized to contain the ashes of the burn and to allow the burn area to be cooled in the event subsequent burns are required. A normal 24 hour cool down is required however by cooling the site this time can be reduced. The burn site must be prepared before transport of the nodule/lumps is undertaken. Upon arrival the vehicle will be driven, as close to the burn pit as safe, and the vehicle engine will be shut off. The containers will removed gently carried individually to the prepared pit. The pit will have a cardboard box top shaped container on the top of the prepared burn, the nodule/lumps will be carefully removed from the plastic container and placed in the box top. The remaining mineral oil will be poured onto the box top. The plastic containers will be decontaminated with new mineral oil which will be poured onto the dunnage for burning. The empty plastic containers will then be disposed of off site as directed by the client. Other procedures will be as prescribed in the original plan.