DEPARTMENT OF THE ARMY
SOUTHWESTERN DIVISION, CORPS OF ENGINEERS
1114 COMMERCE STREET
DALLAS, TEXAS 75242-0216

MEMORANDUM FOR CDR, USACE, ATTN: CEMP-R, WASH DC 20314-1000

SUBJECT: DERP-FUDS Inventory Project Report (INPR) for Site No. K060K011900, Former Bartlesville Air Force Station (Site P-77), Bartlesville, Oklahoma

1. I am forwarding, for appropriate action, the revised INPR for the subject FUDS site which has been determined to be eligible under the DERP-FUDS program, pursuant to the FDE dated 10 September 1991. This INPR has been reviewed by the Office of Counsel.

2. I recommend that Engineering & Support Center, Huntsville, the mandatory center of expertise for OEW, determine appropriate action to be taken on this potential OEW Project No. K060K011901.

FOR THE COMMANDER:

Encl

[Signature]
EDWARD A. COHN
Director, Programs Management Directorate

CF (w/Encl):
CESWT-PP-EF
CEHNC-OE-AI (Carrie Douglas)
SITE NAME: Former Bartlesville Air Force Station (Site P-77).

LOCATION: The site is located approximately 2 miles west of Bartlesville, Oklahoma, in Osage County. See the attached location and site maps.

SITE HISTORY: In July 1955, the United States of America acquired 88.89 acres in Osage County, Oklahoma, for a radar facility; and in October 1955, a 0.06 acre easement for a water pumping station. The radar facility was named the Bartlesville Air Force Station. Improvements made at the radar station site were a radio transmitter building, a radio receiver building, a generator building, an officer barracks, enlisted men barracks, a mess hall, a gymnasium, an administrative building, a boiler house, a motor pool building, an operations building, a radar building, three additional buildings whose functions are unknown, a sewage treatment plant, and roads. In October 1961, the station was sold to Texas residents Troy Dutton and Arthur Jeske. Presently, the former radar station site has both residential dwellings and business facilities.

SITE VISIT: On 23 April 1991, a visit was made to the site by Carol Staudenmaier and Charlie Transue, CESWT-EC-GR, and Linda Lynde, CESWT-RE-AP.

Department of Defense structures remaining at the site are the radio transmitter building, the generator building, the gymnasium, the boiler house, the motor pool building, the operations building, two of the three buildings whose functions are unknown, and the sewage treatment plant. The radio transmitter building is not being used. The generator building is used as a personal garage by a resident. The gymnasium is used as a candle factory by Keepsake Candles of Bartlesville. Additions have been made to this building. The boiler house is not being used. The motor pool building is being used as a storage building for automobiles. In a telephone interview, the present owner of the motor pool site, Mr. R.A. Paul of Bartlesville, reported that an underground storage tank (UST) for gasoline is on the site. Mr. Paul also stated that two diesel UST's had been removed earlier at the site. The operations building is used by Archival Data Services of Bartlesville. The two remaining unidentified buildings are used as storage
SITE NAME: Former Bartlesville Air Force Station (Site P-77).

LOCATION: The Former Bartlesville Air Force Station is located approximately 2 miles west of Bartlesville on State Highway 60 and approximately 1-1/2 miles north on County Road 3235. (See original INPR dated 28 May 1991).


SITE VISIT: An Ordnance and Explosive Wastes (OEW) site visit was conducted on 13 March 1996 by Robert Sherwood of the Tulsa District, Corps of Engineers, Planning Division. (See original INPR dated 28 May 1991).

CATEGORY OF HAZARD: OEW (See original INPR dated 28 May 1991).

PROJECT DESCRIPTION: Available information suggests that this site was used by the Air Force as a weather radar station. According to available records and interviews conducted at the site, ordnance was never known to have been used or stored at this site. However, military personnel may have carried small arms; therefore, the potential exists for OEW contamination. This report should be forwarded to Huntsville Division for determination of appropriate action to be taken for OEW Project Number K060K091101. (See original INPR dated 28 May 1991).


TULSA DISTRICT POC: Lisa Lawson, CESWT-PP-EF, 918-669-7551.
FINDINGS OF FACT

1. In July, 1955, the United States of America acquired 88.89 acres in fee in Osage County, Oklahoma, about 2 miles west of Bartlesville for a radar station. The site was named the Bartlesville Air Force Station (Site P-77). Also, in October, 1955, the United States of America acquired 0.06 acre in easement from Phillips Petroleum Company in Osage County, Oklahoma, about 2 miles east of the radar station site, for a water pumping station for the Air Force Station.

2. Improvements made at the radar station site were a radio transmitter building, a radio receiver building, a generator building, an officer barracks, enlisted men barracks, a mess hall, a gymnasium, an administrative building, a boiler house, a motor pool building, an operations building, a radar building, three buildings whose functions are unknown, a sewage treatment plant, and roads. The property was never subject to other than Department of Defense (DOD) use and control during the period of DOD interest.

3. In October, 1961, the United States of America (acting by and through the Administrator of General Services) conveyed the 88.89 fee acres and assigned the 0.06 acre easement to Troy Dutton of McLennan County, Texas, and Arthur Jeske of Mills County, Texas. The 0.06 acre easement was assignable as a perpetual easement and remains perpetual so long as said land is used as a water pumping station. The quitclaim deed did not contain a recapture clause or restoration agreement. The mineral rights for all the acreage were retained by the Osage Tribe of Indians. The former Air Force Station Site is presently divided into residential and business lots with numerous owners.
DETERMINATION

Based on the foregoing findings of fact, the site has been determined to be formerly used by DOD. It is, therefore, eligible for the Defense Environmental Restoration Program – Formerly Used Defense Sites established under 10 USC 2701 et seq.

Date

STANLEY G. GENEVA
Brigadier General, USA
Commanding
PROJECT SUMMARY SHEET
FOR
DERP-FUDS SITE NO. K06OK011901
FORMER BARTLESVILLE AIR FORCE STATION (SITE P-77)
BARTLESVILLE, OKLAHOMA

SITE NO. K06OK011900

14 MARCH 1996

PROJECT DESCRIPTION: This project involves the Ordnance and Explosive Wastes (OEW) assessment of the Former Bartlesville Air Force Station near Bartlesville, Oklahoma. Department of Defense (DOD) usage began in 1955 when the U.S. Government acquired 88.89 acres of land. The site was used by the DOD as an Air Force weather radar station. Improvements to the site were a radio transmitter building, a radio receiver building, a generator building, officer barracks, enlisted men barracks, a mess hall, a gymnasium, an administration building, a radar building, a boiler house, a motor pool building, three buildings whose functions are unknown, a sewage treatment plant, and roads. Since this site was only used as a radar station, it was assumed that no OEW contamination is present at the site. A site visit was conducted and no evidence of OEW was observed.

PROJECT ELIGIBILITY: Records indicate that the Former Bartlesville Air Force Station was operated and controlled by the DOD; consequently, the site falls within the definition of a Formerly Used Defense Site. The site has not subsequently been used for ordnance related purposes, and the DOD may be responsible for any remaining ordnance contamination. This project has been evaluated in accordance with CEMP-RT memo (200-1a), dated 1 September 1992, subject: DERP-FUDS Standard Operating Procedure (SOP) for performing preliminary assessments at potential OEW sites.

POLICY CONSIDERATIONS: There are no known disposal documents absolving the Government from OEW contamination on the land. This property has not been used for ordnance related purposes subsequent to DOD usage.

PROPOSED ACTIVITIES: Based on available information, it is recommended that no further action be taken on this site. It is proposed that Huntsville Division determine appropriate action for the potential OEW project at this site.

RISK ASSESSMENT CODE (RAC): An RAC of 5 has been assigned to this site. The RAC evaluation form is attached.

TULSA DISTRICT POC: Lisa Lawson, CESWT-PP-EF, 918-669-7551.
17 March 1995

Previous editions obsolete

RISK ASSESSMENT PROCEDURES FOR
ORDNANCE AND EXPLOSIVE WASTE (OEW) SITES

Site Name: Former Butteville Air Force Station
Site Location: Butteville, OK
DERP Project #: KOGKO/1901
Date Completed: 3-14-96

Rater's Name: Robert K. Sheppard
Phone No.: (918) 669-7189
Organization: CESOT - PL-M
Score: 5

OEW RISK ASSESSMENT:

This risk assessment procedure was developed in accordance with MIL-STD 882C and AR 385-10. The RAC score will be used by CEHND to prioritize the remedial action at Formerly Used Defense Sites. The risk assessment should be based upon best available information resulting from records searches, reports of Explosive Ordnance Disposal (EOD) detachment actions, and field observations, interviews, and measurements. This information is used to assess the risk involved based upon the potential EXO hazards identified at the site. The risk assessment is composed of two factors, hazard severity and hazard probability. Personnel involved in visits to potential OEW sites should view the CEHND videotape entitled "A Life Threatening Encounter: OEW."

Part I. Hazard Severity. Hazard severity categories are defined to provide a qualitative measure of the worst credible mishap resulting from personnel exposure to various types and quantities of unexploded ordnance items.

TYPE OF ORDNANCE
(Circle all values that apply)

A. Conventional Ordnance and Ammunition
   - Medium/Large Caliber (20 mm and larger) 10
   - Bombs, Explosive 10
   - Grenades, Hand and Rifle, Explosive 10
   - Landmines, Explosive 10
   - Rockets, Guided Missiles, Explosive 10
   - Detonators, Blasting Caps, Fuzes, Boosters, Bursters 6
   - Bombs, Practice (w/spotting charges) 6
   - Grenades, Practice (w/spotting charges) 4
   - Landmines, Practice (w/spotting charges) 4
   - Small Arms, Complete Round (.22 cal - .50 cal) 1
   - Small Arms, Expended 0

Conventional Ordnance and Ammunition (Select the largest single value)

What evidence do you have regarding conventional EXO none, no ordinance

was observed at the site.
B. Pyrotechnics (For munitions not described above.)

<table>
<thead>
<tr>
<th>Munition (Container) Containing</th>
</tr>
</thead>
<tbody>
<tr>
<td>White Phosphorus (WP) or other</td>
</tr>
<tr>
<td>Pyrophoric Material (i.e.,</td>
</tr>
<tr>
<td>Spontaneously Flammable)</td>
</tr>
<tr>
<td>Mixture Containing A Flame</td>
</tr>
<tr>
<td>or Incendiary Material (i.e.,</td>
</tr>
<tr>
<td>Napalm,</td>
</tr>
<tr>
<td>Triethylaluminum Metal Incendiaries)</td>
</tr>
<tr>
<td>Flares, Signals, Simulators, Screening</td>
</tr>
<tr>
<td>Smokes (other than WP)</td>
</tr>
</tbody>
</table>

**Pyrotechnics (Select the largest single value)**

What evidence do you have regarding pyrotechnics? **None**

C. Bulk High Explosives (Not an integral part of conventional ordnance; uncontainerized.)

<table>
<thead>
<tr>
<th>Primary or Initiating Explosives</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lead Styphnate, Lead Azide,</td>
</tr>
<tr>
<td>Nitroglycerin, Mercury Azide,</td>
</tr>
<tr>
<td>Mercury Fulminate, Tetracene, etc.)</td>
</tr>
<tr>
<td>Demolition Charges</td>
</tr>
<tr>
<td>Secondary Explosives (PETN, Compositions A, B, C, Tetryl, TNT, RDX, HMX, HBX, Black Powder, etc.)</td>
</tr>
<tr>
<td>Military Dynamite</td>
</tr>
<tr>
<td>Less Sensitive Explosives (Ammonium Nitrate, Explosive D, etc.)</td>
</tr>
<tr>
<td>High Explosives (Select the largest single value) <strong>0</strong></td>
</tr>
</tbody>
</table>

What evidence do you have regarding bulk explosives? **None**

D. Bulk Propellants (Not an integral part of rockets, guided missiles, or other conventional ordnance; uncontainerized)

<table>
<thead>
<tr>
<th>Solid or Liquid Propellants</th>
</tr>
</thead>
<tbody>
<tr>
<td>Propellants</td>
</tr>
</tbody>
</table>

What evidence do you have regarding bulk explosive **None**
E. Chemical Warfare Materiel and Radiological Weapons

<table>
<thead>
<tr>
<th>Description</th>
<th>Category</th>
<th>Hazard Severity Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toxic Chemical Agents (Choking, Nerve, Blood, Blister)</td>
<td></td>
<td>25</td>
</tr>
<tr>
<td>War Gas Identification Sets</td>
<td></td>
<td>20</td>
</tr>
<tr>
<td>Radiological</td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>Riot Control Agents (Vomiting, Tear)</td>
<td></td>
<td>5</td>
</tr>
<tr>
<td>Chemical and Radiological</td>
<td></td>
<td>0</td>
</tr>
</tbody>
</table>

What evidence do you have of chemical/radiological OEW? None

TOTAL HAZARD SEVERITY VALUE
(Sum of Largest Values for A through E—Maximum of 61)

TABLE 1
HAZARD SEVERITY

<table>
<thead>
<tr>
<th>Description</th>
<th>Category</th>
<th>Hazard Severity Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>CATASTROPIC</td>
<td>I</td>
<td>21 and greater</td>
</tr>
<tr>
<td>CRITICAL</td>
<td>II</td>
<td>10 to 20</td>
</tr>
<tr>
<td>MARGINAL</td>
<td>III</td>
<td>5 to 9</td>
</tr>
<tr>
<td>NEGLIGIBLE</td>
<td>IV</td>
<td>1 to 4</td>
</tr>
</tbody>
</table>

**NONE

* APPLY HAZARD SEVERITY CATEGORY TO TABLE 3.

** IF HAZARD SEVERITY VALUE IS 0, YOU DO NOT NEED TO COMPLETE PART II. PROCEED TO PART III AND USE A RAC SCORE OF 5 TO DETERMINE YOUR APPROPRIATE ACTION.
Part III. Risk Assessment. The risk assessment value for this site is determined using the following Table 3. Enter with the results of the hazard probability and hazard severity values.

**TABLE 3**

<table>
<thead>
<tr>
<th>Probability Level</th>
<th>FREQUENT A</th>
<th>PROBABLE B</th>
<th>OCCASIONAL C</th>
<th>REMOTE D</th>
<th>IMPROBABLE E</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity Category:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CATASTROPHIC</td>
<td>I</td>
<td>1</td>
<td>1</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>CRITICAL</td>
<td>II</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>MARGINAL</td>
<td>III</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>NEGLIGIBLE</td>
<td>IV</td>
<td>3</td>
<td>4</td>
<td>4</td>
<td>5</td>
</tr>
</tbody>
</table>

**RISK ASSESSMENT CODE (RAC)**

- **RAC 1**: Expedite INPR, recommending further action by CEHND - Immediately call CEHND-OE-ES - Commercial 205-895-1582
- **RAC 2**: High priority on completion of INPR - Recommend further action by CEHND.
- **RAC 3**: Complete INPR - Recommend further action by CEHND.
- **RAC 4**: Complete INPR - Recommend further action by CEHND.
- **RAC 5**: Usually indicates that no further action (NOFA) is necessary. Submit NOFA and RAC to CEHND.

Part IV. Narrative. Summarize the documented evidence that supports this risk assessment. If no documented evidence was available, explain all the assumptions that you made.

The site was used by the Air Force as a weather radar station. According to available records and interviews conducted at the site, no ordnance training or storage was located at this site. A site visit was conducted and no evidence of OEW was observed.
buildings. The sewage treatment plant has been abandoned. All remaining DOD structures are in good condition and on privately owned land.

CATEGORY OF HAZARD: Containerized/hazardous and toxic waste (CON/HTW).

PROJECT DESCRIPTION: During the site visit, an old vent pipe was observed on the Motor Pool Building grounds. The present owner of the motor pool building reported that a UST for gasoline is on the site and that he has not used the tank. A CON/HTW project for the removal of the UST is proposed under Project No. K060K0011901.

AVAILABLE STUDIES AND REPORTS: None identified.

DISTRICT POC: Carol Staudenmaier, CESWT-EC-GR, 918-581-6115 or FTS 745-6115.
LOCATION MAP

FORMER BARTLESVILLE AIR FORCE STATION (SITE P-77)

BARTLESVILLE, OKLAHOMA
PROJECT SUMMARY SHEET
FOR
DERP-FUDS CON/HTW PROJECT NO. K060K011901
FORMER BARTLESVILLE AIR FORCE STATION (Site P-77)
SITE NO. K060K011900

28 MAY 1991

PROJECT DESCRIPTION: During the site visit, an old vent pipe was observed on the Motor Pool Building grounds. The present owner of the Motor Pool Building, R.A. Paul of Bartlesville, reported that an underground storage tank (UST) for gasoline is on the site.

PROJECT ELIGIBILITY: The UST was installed and used by the U.S. Air Force during the time the site was used as a radar station and is therefore eligible for consideration under DERP-FUDS.

POLICY CONSIDERATIONS: The file records and an interview with the current site owner indicate that the UST has not been beneficially used since the Department of Defense returned the site to private ownership.

PROPOSED PROJECT: The UST meets eligibility criteria and policy considerations, and a project is proposed for its removal and disposal.

DD FORM 1391: A DD Form 1391 for the proposed UST removal project is attached.

DISTRICT POC: Carol Staudenmaier, CESWT-EC-GR, 918-581-6115 or FTS 745-6115.