



*Steph -
Review and Return
EJH*

ENVIRONMENTAL

49 CES/CEV

Holloman AFB, NM

TELEFAX

To: MR Ed Horst

Date: 19 Nov 93

From: SSGT RACHWAL

Subject: Reportable Spill

Remarks: The hard copy of this fax will be in the mail today.

A total of 10 pages are being transmitted, to include this cover sheet.

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475



DEPARTMENT OF THE AIR FORCE

HEADQUARTERS 49TH FIGHTER WING (ACC)
HOLLOMAN AIR FORCE BASE, NEW MEXICO

FROM: 49 CES/CEV
550 Tabosa Ave
Holloman AFB, NM 88330-8458

18 NOV 1993

SUBJ: Notification of Discharge

TO: New Mexico Environment Department
Hazardous and Radioactive Materials Bureau
Attn: Mr Ed Horst
1190 St Francis Drive
Santa Fe, NM 87503

1. As required by the State of New Mexico Water Quality Control Commission (NMWQCC) Regulations as amended through 25 November 1988, we are reporting a spill at Holloman AFB from an In-Flight Emergency (IFE) of an F-16 aircraft that egressed its fuel drop tank. Due to the pilot's efforts being redirected to save the aircraft and his life, the exact location of the jettison fuel drop tank is unknown. The fuel drop tank dimensions are 15 feet in length and 3 feet in diameter containing approximately 300 gallons of JP-8 (Fuel, Aviation, Turbine Engine). The last reported location of the tank was 280 degrees magnetic off our Runway 16-34 North-end (See map, Attachment 1).

2. As required in NMWQCC, Section 1-203, Notification of Discharge, we submit the following information:

a. Name, address, telephone number of point of contact for the facility and facility owner:

SSgt James Rachwal, 49 CES/CEV
550 Tabosa Ave
Holloman AFB, New Mexico 88330 8458
(505) 475-3931

b. Name and address of facility:

Holloman Air Force Base
Holloman AFB, New Mexico 88330-5000

c. Date, time, location, and duration of discharge:

08 Nov 93, 0838
Estimated to be 280 degrees off Runway 16-34 North-end
Surmised rupture of fuel drop tank upon impact.

d. Source and cause of discharge:

The IFE necessitated the egress of a drop tank made of aluminum from 4000 feet.

e. Description of discharge and chemical composition:

JP-8 was released. See Attachment 2, Material Safety Data Sheet, for a generic description of JP-8.

f. Estimated volume of discharge:

Suspect JP-8 release of 300 gallons (Fuel, Aviation, Turbine Engine).

g. Actions taken to mitigate immediate dangers:

On 9 Nov 93, environmental personnel were taken to the suspected drop area by helicopter. The crew surveyed for over 2 ½ hours and could not locate the fuel drop tank. The search encompassed an area between a 270-310 degree arc from Runway 16-34 North-end, 3 to 5 miles outward. Additionally, a search was made along the perimeter of the sand dunes, basin, and small stream that deposits onto HAFB. There were no indications of fuel in any of the medias.

A second search was conducted on 17 Nov 93. Again, the search was unable to locate the dropped fuel tank.

3. The terrain is extremely dense. The only means of transversing the area is by helicopter or horseback. The drop fuel tank may have landed on White Sands Missile Range, White Sands National Monument or Holloman AFB.

4. If further information is required, please contact SSgt Rachwal at 475-3931.


HOWARD E. HOFFITT
Deputy Base Civil Engineer

2 Atchs
1. Map of Search Area
2. MSDS - JP-8

DOD Hazardous Materials Information System

DoD 6050.5-L

AS OF MAY 1992

FSC: 9130

NIIN: 010315816

Manufacturer's CAGE: 86961

Part No. Indicator: A

Part Number/Trade Name: SHELL TURBINE FUEL JP-8

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General Information

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Item Name: TURBINE FUEL, AVIATION, JP-8 F34

Manufacturer's Name: SHELL OIL CO

Manufacturer's Street: 1 SHELL PLAZA

Manufacturer's P. O. Box: 2463

Manufacturer's City: HOUSTON

Manufacturer's State: TX

Manufacturer's Country: US

Manufacturer's Zip Code: 77001

Manufacturer's Emerg Ph #: 713-473-9461

Manufacturer's Info Ph #: 713-241-4819

Distributor/Vendor # 1:

Distributor/Vendor # 1 Cage:

Distributor/Vendor # 2:

Distributor/Vendor # 2 Cage:

Distributor/Vendor # 3:

Distributor/Vendor # 3 Cage:

Distributor/Vendor # 4:

Distributor/Vendor # 4 Cage:

Safety Data Action Code:

Safety Focal Point: D

Record No. For Safety Entry: 002

Tot Safety Entries This Stk#: 002

Status: SE

Date MSDS Prepared: 11NOV85

Safety Data Review Date: 11JUL89

Supply Item Manager: KY

MSDS Preparer's Name: JOHN P. SEPESTI

Preparer's Company:

Preparer's St Or P. O. Box:

Preparer's City:

Preparer's State:

Preparer's Zip Code:

Other MSDS Number:

MSDS Serial Number: BGXRR

Specification Number: MIL-T-83133

Spec Type, Grade, Class: GRADE JP-8

Hazard Characteristic Code: F4

Unit Of Issue: GL

Unit Of Issue Container Qty:

Type Of Container: BULK

Net Unit Weight:

NRC/State License Number: N/R

Net Explosive Weight:

Net Propellant Weight-Ammo: N/R

Coast Guard Ammunition Code:

Ingredients/Identity Information

Proprietary: NO
Ingredient: JP-8 (MADE UP OF THE FOLLOWING COMPONENTS)
Ingredient Sequence Number: 01
Percent: 100
Ingredient Action Code:
Ingredient Focal Point: D
NIOSH (RTECS) Number: 1002132JF
CAS Number:
OSHA PEL: NOT ESTABLISHED
ACGIH TLV: NOT ESTABLISHED
Other Recommended Limit: HMIS:100 PPM/5 MG/M3

Proprietary: NO
Ingredient: KEROSENE
Ingredient Sequence Number: 02
Percent: >99.0
Ingredient Action Code:
Ingredient Focal Point: D
NIOSH (RTECS) Number: OA5500000
CAS Number: 8008-20-6
OSHA PEL: NOT ESTABLISHED
ACGIH TLV: NOT ESTABLISHED
Other Recommended Limit:

Proprietary: NO
Ingredient: ADDITIVES
Ingredient Sequence Number: 03
Percent: <0.5
Ingredient Action Code:
Ingredient Focal Point: D
NIOSH (RTECS) Number: 1000144AD
CAS Number:
OSHA PEL: N/K
ACGIH TLV: N/K
Other Recommended Limit:

Physical/Chemical Characteristics

Appearance And Odor: CLEAR, COLORLESS TO EMBER LIQUID, KEROSENE ODOR
Boiling Point: 320F/160C
Melting Point: -58F/-50C
Vapor Pressure (MM Hg/70 F): N/K
Vapor Density (Air=1): >1
Specific Gravity: 0.81
Decomposition Temperature: N/K
Evaporation Rate And Ref: N/K
Solubility In Water: NEGLIGIBLE
Percent Volatiles By Volume: N/K
Viscosity:
pH: N/K
Radioactivity:
Form (Radioactive Matl):
Magnetism (Milligauss):
Corrosion Rate (IPY):

Autoignition Temperature:

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 Fire and Explosion Hazard Data
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Flash Point: 100F

Flash Point Method: TCC

Lower Explosive Limit: 0.7

Upper Explosive Limit: 5.0

Extinguishing Media: FOAM, CARBON DIOXIDE DRY CHEMICAL, WATER FOG. WATER MAY BE INEFFECTIVE AND MAY SPREAD FIRE IF IMPROPERLY USED.

Special Fire Fighting Proc: USE SELF CONTAINED BREATHING APPARATUS, ESPECIALLY IN ENCLOSED AREAS. WATER SPRAY MAY BE USED TO COOL FIRE EXPOSED CONTAINERS AND EQUIPMENT.

Unusual Fire And Expl Hazrds: WHEN HEATED SUFFICIENTLY, VAPORS MAY FORM EXPLOSIVE MIXTURES WITH AIR. SATURATED NEWSPAPERS, PAGES, ETC MAY UNDERGO SPONTANEOUS COMBUSTION.

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 Reactivity Data
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Stability: YES

Cond To Avoid (Stability): HEAT, IGNITION SOURCES

Materials To Avoid: STRONG OXIDIZERS.

Hazardous Decomp Products: CARBON

Hazardous Poly Prods: NO
Conditions To Avoid (Poly): N/R
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 Health Hazard Data
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LD50-LC50 Mixture: N/K

Route Of Entry - Inhalation: YES

Route Of Entry - Skin: NO

Route Of Entry - Ingestion: YES

Health Has Acute And Chronic: PRODUCT IS A MILD IRRITANT MOST HAZARDOUS EXPOSURE; EXPOSURE IS TO AIRBORN MIST OR OTHER ASPIRATION OF LIQUID INTO LUNGS. PROLONGED/REPEATED OVEREXPOSURE MAY CAUSE LIVER OR KIDNEY DAMAGE.

Carcinogenicity - NTP: NO

Carcinogenicity - IARC: NO

Carcinogenicity - OSHA: NO

Explanation Carcinogenicity: API HAS DONE STUDIES INDICATING THAT REPEATED OVER EXPOSURES MAY CAUSE CANCER IN MICE.

Signs/Symptoms Of Overexp: EYE: MILD IRRITATION. SKIN: DRYING, DEFATTING WITH PROLONGED/REPEATED CONTACT. INHALED: HEADACHE, NAUSEA, CONFUSION, DROWINESS.

ASPIRATION OF LIQUID MAY CAUSE CHEMICAL PNEUMONITIS. INGESTED: G/ I IRRITATION, NAUSEA, POSSIBLE VOMITING.

Med Cond Aggravated by Exp: NONE EXPECTED

Emergency/First Aid Proc: EYE: FLUSH WITH WATER 15 MIN. SKIN: REMOVE CONTAMINATED CLOTHING (LAUNDRER BEFORE REUSE) AND THOROUGHLY AREA OF CONTACT WITH SOAP AND WATER. INHALED: REMOVE FROM EXPOSURE. RESUSCITATE OR GIVE OXYGEN IF NEEDED THEN GET MEDICAL ATTENTION. INGESTED: DO NOT INDUCE VOMITING. GET MEDICAL ATTENTION. IF ANY IRRITATION PERSISTS OR IS SEVERE, GET MEDICAL CARE.

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 Precautions for Safe Handling and Use
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Steps If Matl Released/Spill: ELIMINATE IGNITION SOURCES. USE APPROPRIATE PROTECTIVE EQUIPMENT. CONTAIN LEAK. PREVENT LEAK FROM ENTERING SEWER, WATER WAY, ETC. RECOVER AS LIQUID. REPORT SPILL IF APPROPRIATE.

Neutralizing Agent: NONE

Waste Disposal Method: DISPOSE I/A/W FEDERAL, STATE, LOCAL REGULATIONS.
INCINERATION IS RECOMMENDED FOR DISPOSAL.

Precautions-Handling/Storing: STORE IN COOL AREA AWAY FROM OXIDIZERS AND
IGNITION SOURCES. DETACHED STORAGE PREFERRED. GROUND CONTAINERS DURING
TRANSFER.

Other Precautions: "EMPTY" CONTAINERS MAY CONTAIN RESIDUE AND/OR FUMES
WHICH ARE EXPLOSIVE. DO NOT CUT, WELD, ETC.

Control Measures

Respiratory Protection: NOT EXPECTED TO BE NECESSARY. USE NIOSH/MSHA
RESPIRATOR IF PRODUCT IS MISTED OR IF TLV/PEL IS EXCEEDED.

Ventilation: USE LOCAL EXHAUST TO MAINTAIN EXPOSURE BELOW TLV/PEL IF NORMAL
ROOM VENTILATION IS INSUFFICIENT.

Protective Gloves: RUBBER, PLASTIC, OR OTHER IMPERVIOUS

Eye Protection: SAFETY GLASSES OR SPLASH GOGGLES.

Other Protective Equipment: WEAR IMPERVIOUS CLOTHING TO PROTECT AGAINST
PROLONGED/REPEATED CONTACT.

Work Hygienic Practices: USE GOOD INDUSTRIAL HYGIENE PRACTICE. AVOID
UNNECESSARY CONTACT.

Suppl. Safety & Health Data: MSDS NO 52,309 SHELL CODE 23540.

Transportation Data

Transportation Action Code:

Transportation Focal Point: D

Trans Data Review Date: 89192

DOT PSN Code: GNN

DOT Proper Shipping Name: FUEL, AVIATION, TURBINE ENGINE

DOT Class: COMBUSTIBLE LIQUID

DOT Label: NONE

Limited Quantity: NO

DOT Mode Indicator:

Identification Number: UN1863

Reportable Qty - Trans File:

DOT/DoD Exemption Number:

IMO PSN Code: HN2

IMO Proper Shipping Name: FUEL OIL NO. 1

IMO Regulations Page Number: SEE 3375

IMO UN Number: 1223

IMO UN Class: 3.3

IMO Subsidiary Risk Label: -

IATA PSN Code: MMF

IATA UN ID Number: 1863

IATA Proper Shipping Name: FUEL, AVIATION, TURBINE ENGINE

IATA UN Class: 3

IATA Subsidiary Risk Class:

IATA Label: FLAMMABLE LIQUID

AFR 71-4 PSN Code: ZZZ

AFR 71-4 Prop. Shipping Name: NOT REGULATED FOR THIS MODE OF
TRANSPORTATION

AFR 71-4 Class: N/R

AFR 71-4 Label: N/R

AFR 71-4 ID Number: N/R

AF MMAC Code:

Tech Entry NOS Shipping Name:

Additional Trans Data:

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Disposal Data

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Disposal Data Action Code:
 Disposal Data Focal Point:
 Disposal Data Review Date:
 Rec # For This Disp Entry:
 Tot Disp Entries This Stock#:
 Landfill Ban Item:
 Disposal Supplemental Data:
 1st EPA Haz Wst Code UnUsed:
 1st EPA Haz Wst Name UnUsed:
 1st EPA Haz Wst Char UnUsed:
 1st EPA Acute Hazard UnUsed:
 2nd EPA Haz Wst Code UnUsed:
 2nd EPA Haz Wst Name UnUsed:
 2nd EPA Haz Wst Char UnUsed:
 2nd EPA Acute Hazard UnUsed:
 3rd EPA Haz Wst Code UnUsed:
 3rd EPA Haz Wst Name UnUsed:
 3rd EPA Haz Wst Char UnUsed:
 3rd EPA Acute Hazard UnUsed:

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Label Data

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Label Required: YES
 Date of Technical Review:
 Label Date:
 Manufacturer's Label No.:
 Label Status: E
 Common Name of Product:
 Chronic Hazard:
 Signal Word:
 Acute Health Hazard-None:
 Acute Health Hazard-Slight:
 Acute Health Hazard-Moderate:
 Acute Health Hazard-Severe:
 Contact Hazard-None:
 Contact Hazard-Slight:
 Contact Hazard-Moderate:
 Contact Hazard-Severe:
 Fire Hazard-None:
 Fire Hazard-Slight:
 Fire Hazard-Moderate:
 Fire Hazard-Severe:
 Reactivity Hazard-None:
 Reactivity Hazard-Slight:
 Reactivity Hazard-Moderate:
 Reactivity Hazard-Severe:
 Special Hazard Precautions: MAY BE POISONOUS IF INHALED OR ABSORBED
 THROUGH SKIN. VAPORS MAY CAUSE DIZZINESS OR SUFFOCATION. CONTACT MAY
 IRRITATE OR BURN SKIN AND EYES. FIRE MAY PRODUCE IRRITATING OR POISONOUS
 GASES. RUNOFF FROM FIRE CONTROL OR DILUTION WATER MAY CAUSE POLLUTION.
 Protect Eye:
 Protect Skin:
 Protect Respiratory:

Mfg's Name From Label: SHELL CHEMICAL COMPANY A DIV. OF SHELL OIL
CO.
Mfg's Street From Label: 1 SHELL PLAZA
Mfg's P.O. Box From Label: 2463
Mfg's City From Label: HOUSTON
Mfg's State From Label: TX
Mfg's Zip Code From Label: 77001
Mfg's Country From Label: US
Emergency Ph. No. From Label: 713-473-9461
Year Procured: