

National Aeronautics and  
Space Administration  
Lyndon B. Johnson Space Center  
**White Sands Test Facility**  
P.O. Box 20  
Las Cruces, NM 88004-0020



February 12, 2007

Reply to Attn of: RA-E07-018

NM Department of Public Safety  
Attn: Mr. Ron Breland  
State Emergency Response Commission  
P. O. Box 1628  
Santa Fe, NM 87504-1628

Subject: NASA White Sands Test Facility (WSTF) 2006 SARA Title III Tier II  
Emergency and Hazardous Chemical Inventory Report

Enclosed is a CD-ROM containing the WSTF SARA Title III Tier II Emergency and  
Hazardous Chemical Inventory Report for 2006. In addition, the cover sheet that contains the  
Certification Statement for electronic reporting is also included. If you have any questions or  
comments concerning this submittal, please call me at 505-524-5733.

**Original Signed By:**

Radel Bunker-Farrah  
Environmental Program Manager

2 Enclosures

cc:  
Lieutenant Johnny Carrillo  
Emergency Planning Coordinator  
Las Cruces Fire Department  
P. O. Box 20000  
Las Cruces, NM 88004

Ms. Delia Cervantes  
Emergency Management Supervisor  
1170 North Solano Suite O  
Las Cruces, NM 88001

bcc:  
FOSC Team/K. M. Davis  
RA/RBunker-Farrah:btm:2/12/07:5733  
S:\wstgrp\environ\nasaport\signed transmission letters\RA-E07-018  
SARAIIWSTF2006ltr.doc

# STATE OF NEW MEXICO

## TIER II FILING COVER SHEET

### TIER TWO REPORTING

Please complete the following Owner/Operator and Facility information, sign the certification section and return this form with your fee and magnetic media submission by March 1, 2007 to: **State Emergency Response Commission, c/o New Mexico Department of Public Safety, P.O. Box 1628 Santa Fe, NM 87504 For Fed Ex or UPS send to: 13 Bataan Blvd Santa Fe, NM 87508.** The software package currently accepted by the New Mexico Department of Public Safety for use in electronic Tier Two reporting is the Environmental Protection Agency's **Tier2 Submit**. If your Local Emergency Planning Committee (LEPC) and your local fire department are not capable of accepting magnetic media, you must provide them with printed copies of your New Mexico Tier Two form(s). You may print them from the TIER 2 software program.

**PLEASE DO NOT ATTACH PAPER COPIES WITH YOUR PACKET TO THE STATE, WE WILL ONLY ACCEPT ELECTRONIC MEDIA.**

## Certification

I certify under penalty of law that I have personally examined and am familiar with the information submitted on the magnetic media or E-mailed file for the facilities listed on this certification and that based on my inquiry of those individuals responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.

### Name and Official Title of Authorized Representative - Please Type

Name Radel Bunker-Farrah Title Environmental Program Manager

Telephone: (505) 524-5733

Signature (Required) 

Date Signed 2-13-07

Data Processing  
Contact:

Harold Harrison

Telephone: ( 505 ) 524-5461

Number of 3.5" Diskette(s) or CD's enclosed:

1

Check if Trade Secret Data is included on the Diskette(s):

Yes

Check if Information is Identical to Last Year:

Yes

**Owner/Operator:** NASA White Sands Test Facility

**SIC**

**Code:** 9661

**Address:** P.O. Box 20

**City/State/Zip:** Las Cruces, NM

Name of New Mexico Facility	Street Address or Location description	City	Zip Code	Number Of Chemicals
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White Sands Test Facility	12600 Nasa Road	Las Cruces, NM	88012	15
	Approximately 16 Miles NE of			
	Las Cruces, NM			

Total Number of Facilities  
Reported:

1

Total Fee  
Enclosed:

\$ N/A

Please make checks payable to the **State Emergency Response Commission**

Facility Name: NASA White Sands Test Facility

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FACILITY IDENTIFICATION:

NASA White Sands Test Facility  
Dept: N/A  
12600 NASA Road (Approximately 16 Miles NE of Las Cruces)  
Las Cruces, NM 88012 USA  
County: Dona Ana  
Number of employees: 707  
Latitude: 32.5057  
Longitude: 106.6121  
Method: G3 - GPS (Differential)  
Description: AB - Administrative Building  
MAILING ADDRESS: P.O. Box 20  
Las Cruces, NM 88004 USA

IDENTIFICATION NUMBERS:

Dun & Bradstreet: 19-455-5207  
SIC: 9661 (SPACE RESEARCH AND TECHNOLOGY)

CONTACT INFORMATION:

WSTF Fire Department,  
Contact Type 1: Emergency Contact  
Address: P.O. Box 20, Las Cruces, NM, 88004 USA  
Phones: 24-hour: (505) 524-9111

NASA White Sands Test Facility,  
Contact Type 1: Owner / Operator  
Address: P.O. Box 20, Las Cruces, NM, 88004 USA  
Phones: Work: (505) 524-5771  
Email: SMPT:radel.l.bunker-farrah@nasa.gov

CHEMICAL DESCRIPTIONS:

All chemicals in inventory are identical to last year's submission

CHEM NAME: 1,1-DIMETHYL HYDRAZINE

CAS: 57-14-7

Identical to previous year

TRADE SECRET

Pure  Mix  Solid  Liquid  Gas  EHS

PHYSICAL & HEALTH HAZARDS:

Fire  Sudden Release of Pressure  Reactivity  Immediate (acute)  Delayed (chronic)

INVENTORY:

Max Amt: 3,703 pounds Max Daily Amt code: 03 (1,000 - 9,999 pounds)

Avg Amt: 3421 pounds Avg Daily Amt code: 03 (1,000 - 9,999 pounds)

No. of days on-site: 365

STORAGE CODES & STORAGE LOCATIONS:

Container Type: L Pressure: 2 Temp: 4 Location: 200 Area Chemical Laboratory Amount: pounds

Tier Two  
Emergency and Hazardous Chemical Inventory  
Specific Information by Chemical

Reporting Period: January 1 to December 31, 2006

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Facility Name: NASA White Sands Test Facility

Container Type: D Pressure: 1 Temp: 4 Location: 500 Area Remote Storage Amount: pounds  
CHEMICALS IN INVENTORY STATE FIELDS:

No additional chemical information is required by New Mexico

CHEM NAME: 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE

CAS: 76-13-1

Identical to previous year

TRADE SECRET

Pure  Mix  Solid  Liquid  Gas  EHS

PHYSICAL & HEALTH HAZARDS:

Fire  Sudden Release of Pressure  Reactivity  Immediate (acute)  Delayed (chronic)

INVENTORY:

Max Amt: 2070 pounds Max Daily Amt code: 03 (1,000 - 9,999 pounds)

Avg Amt: 2070 pounds Avg Daily Amt code: 03 (1,000 - 9,999 pounds)

No. of days on-site: 365

STORAGE CODES & STORAGE LOCATIONS:

Container Type: D Pressure: 1 Temp: 4 Location: 150 Area Warehouse Amount: pounds

CHEMICALS IN INVENTORY STATE FIELDS:

No additional chemical information is required by New Mexico

CHEM NAME: CHLORINE

CAS: 7782-50-5

Identical to previous year

TRADE SECRET

Pure  Mix  Solid  Liquid  Gas  EHS

PHYSICAL & HEALTH HAZARDS:

Fire  Sudden Release of Pressure  Reactivity  Immediate (acute)  Delayed (chronic)

INVENTORY:

Max Amt: 600 pounds Max Daily Amt code: 02 (100 - 999 pounds)

Avg Amt: 500 pounds Avg Daily Amt code: 02 (100 - 999 pounds)

No. of days on-site: 365

STORAGE CODES & STORAGE LOCATIONS:

Container Type: L Pressure: 2 Temp: 4 Location: 100 Area Warehouse Amount: pounds

Container Type: L Pressure: 2 Temp: 4 Location: 600 Area Chlorination Building Amount: pounds

CHEMICALS IN INVENTORY STATE FIELDS:

No additional chemical information is required by New Mexico

CHEM NAME: DIESEL FUEL

CAS: 68476-34-6

Identical to previous year

TRADE SECRET

Pure  Mix  Solid  Liquid  Gas  EHS

PHYSICAL & HEALTH HAZARDS:

Fire  Sudden Release of Pressure  Reactivity  Immediate (acute)  Delayed (chronic)

INVENTORY:

Max Amt: 97,865 pounds Max Daily Amt code: 04 (10,000 - 99,999 pounds)

Avg Amt: 68545 pounds Avg Daily Amt code: 04 (10,000 - 99,999 pounds)

No. of days on-site: 365

STORAGE CODES & STORAGE LOCATIONS:

Tier Two  
Emergency and Hazardous Chemical Inventory  
Specific Information by Chemical

Reporting Period: January 1 to December 31, 2006

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Facility Name: NASA White Sands Test Facility

Container Type: A Pressure: 1 Temp: 4 Location: 150 Area Heavy Equipment Tank Amount: pounds  
Container Type: A Pressure: 1 Temp: 4 Location: 300 Area Altitude Test Tank Amount: pounds  
Container Type: A Pressure: 1 Temp: 4 Location: 400 Area Altitude Test Tank Amount: pounds

CHEMICALS IN INVENTORY STATE FIELDS:

No additional chemical information is required by New Mexico

CHEM NAME: DINITROGEN TETROXIDE (N2O4)

CAS: 10102-44-0

Identical to previous year

TRADE SECRET

Pure  Mix  Solid  Liquid  Gas  EHS

PHYSICAL & HEALTH HAZARDS:

Fire  Sudden Release of Pressure  Reactivity  Immediate (acute)  Delayed (chronic)

INVENTORY:

Max Amt: 59194 pounds Max Daily Amt code: 04 (10,000 - 99,999 pounds)

Avg Amt: 45663 pounds Avg Daily Amt code: 04 (10,000 - 99,999 pounds)

No. of days on-site: 365

STORAGE CODES & STORAGE LOCATIONS:

Container Type: L Pressure: 2 Temp: 4 Location: 200 Area Chemistry Laboratory Amount: pounds

Container Type: A Pressure: 2 Temp: 4 Location: 300 Area Test Storage Tank Amount: pounds

Container Type: A Pressure: 2 Temp: 4 Location: 400 Area Test Storage Tank Amount: pounds

Container Type: L Pressure: 2 Temp: 4 Location: 500 Area Remote Storage (Pigs) Amount: pounds

Container Type: L Pressure: 2 Temp: 5 Location: 800 Area Hazardous Fluids Test Amount: pounds

CHEMICALS IN INVENTORY STATE FIELDS:

No additional chemical information is required by New Mexico

CHEM NAME: ETHANOL

CAS: 64-17-5

Identical to previous year

TRADE SECRET

Pure  Mix  Solid  Liquid  Gas  EHS

PHYSICAL & HEALTH HAZARDS:

Fire  Sudden Release of Pressure  Reactivity  Immediate (acute)  Delayed (chronic)

INVENTORY:

Max Amt: 43790 pounds Max Daily Amt code: 04 (10,000 - 99,999 pounds)

Avg Amt: 27230 pounds Avg Daily Amt code: 04 (10,000 - 99,999 pounds)

No. of days on-site: 365

STORAGE CODES & STORAGE LOCATIONS:

Container Type: A Pressure: 1 Temp: 4 Location: 400 Area Test Storage Tank Amount: pounds

Container Type: D Pressure: 1 Temp: 4 Location: 500 Area Remote Storage Amount: pounds

Container Type: B Pressure: 1 Temp: 4 Location: 100 Area E-85 Tank Amount: pounds

CHEMICALS IN INVENTORY STATE FIELDS:

No additional chemical information is required by New Mexico

CHEM NAME: GASOLINE

CAS: 8006-61-9

Identical to previous year

TRADE SECRET

Pure  Mix  Solid  Liquid  Gas  EHS

Tier Two  
Emergency and Hazardous Chemical Inventory  
Specific Information by Chemical

Reporting Period: January 1 to December 31, 2006

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Facility Name: NASA White Sands Test Facility

PHYSICAL & HEALTH HAZARDS:

Fire  Sudden Release of Pressure  Reactivity  Immediate (acute)  Delayed (chronic)

INVENTORY:

Max Amt: 37,430 pounds Max Daily Amt code: 04 (10,000 - 99,999 pounds)

Avg Amt: 20842 pounds Avg Daily Amt code: 04 (10,000 - 99,999 pounds)

No. of days on-site: 365

STORAGE CODES & STORAGE LOCATIONS:

Container Type: B Pressure: 1 Temp: 4 Location: 100 Area Building 113 Amount: pounds

CHEMICALS IN INVENTORY STATE FIELDS:

No additional chemical information is required by New Mexico

CHEM NAME: HYDRAZINE

CAS: 302-01-2

Identical to previous year

TRADE SECRET

Pure  Mix  Solid  Liquid  Gas  EHS

PHYSICAL & HEALTH HAZARDS:

Fire  Sudden Release of Pressure  Reactivity  Immediate (acute)  Delayed (chronic)

INVENTORY:

Max Amt: 22295 pounds Max Daily Amt code: 04 (10,000 - 99,999 pounds)

Avg Amt: 17902 pounds Avg Daily Amt code: 04 (10,000 - 99,999 pounds)

No. of days on-site: 365

STORAGE CODES & STORAGE LOCATIONS:

Container Type: L Pressure: 2 Temp: 4 Location: 200 Area Chemistry Laboratory Amount: pounds

Container Type: A Pressure: 1 Temp: 4 Location: 300 Area Storage/Dump Tanks Amount: pounds

Container Type: D Pressure: 1 Temp: 4 Location: 500 Area Remote Storage Amount: pounds

Container Type: A Pressure: 2 Temp: 4 Location: 800 Area Test Storage Tank Amount: pounds

CHEMICALS IN INVENTORY STATE FIELDS:

No additional chemical information is required by New Mexico

CHEM NAME: ISOPROPYL ALCOHOL

CAS: 67-63-0

Identical to previous year

TRADE SECRET

Pure  Mix  Solid  Liquid  Gas  EHS

PHYSICAL & HEALTH HAZARDS:

Fire  Sudden Release of Pressure  Reactivity  Immediate (acute)  Delayed (chronic)

INVENTORY:

Max Amt: 334705 pounds Max Daily Amt code: 05 (100,000 - 999,999 pounds)

Avg Amt: 266005 pounds Avg Daily Amt code: 05 (100,000 - 999,999 pounds)

No. of days on-site: 365

STORAGE CODES & STORAGE LOCATIONS:

Container Type: D Pressure: 1 Temp: 4 Location: 150 Area Warehouse Amount: pounds

Container Type: D Pressure: 1 Temp: 4 Location: 200 Area Clean Room Amount: pounds

Container Type: A Pressure: 1 Temp: 4 Location: 400 Area Altitude Test Tanks Amount: pounds

Container Type: D Pressure: 1 Temp: 4 Location: 500 Area Remote Storage Amount: pounds

CHEMICALS IN INVENTORY STATE FIELDS:

No additional chemical information is required by New Mexico

Tier Two  
Emergency and Hazardous Chemical Inventory  
Specific Information by Chemical

Reporting Period: January 1 to December 31, 2006

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Facility Name: NASA White Sands Test Facility

CHEM NAME: LIQUID NITROGEN

CAS: 7727-37-9

Identical to previous year

TRADE SECRET

Pure  Mix  Solid  Liquid  Gas  EHS

PHYSICAL & HEALTH HAZARDS:

Fire  Sudden Release of Pressure  Reactivity  Immediate (acute)  Delayed (chronic)

INVENTORY:

Max Amt: 278535 pounds Max Daily Amt code: 05 (100,000 - 999,999 pounds)

Avg Amt: 134885 pounds Avg Daily Amt code: 05 (100,000 - 999,999 pounds)

No. of days on-site: 365

STORAGE CODES & STORAGE LOCATIONS:

Container Type: A Pressure: 2 Temp: 7 Location: 200 Area Tanker Amount: pounds

Container Type: A Pressure: 2 Temp: 7 Location: 400 Area Storage Tanks Amount: pounds

Container Type: A Pressure: 2 Temp: 7 Location: 500 Cryo Area Amount: pounds

CHEMICALS IN INVENTORY STATE FIELDS:

No additional chemical information is required by New Mexico

CHEM NAME: LIQUID OXYGEN

CAS: 7782-44-7

Identical to previous year

TRADE SECRET

Pure  Mix  Solid  Liquid  Gas  EHS

PHYSICAL & HEALTH HAZARDS:

Fire  Sudden Release of Pressure  Reactivity  Immediate (acute)  Delayed (chronic)

INVENTORY:

Max Amt: 665440 pounds Max Daily Amt code: 05 (100,000 - 999,999 pounds)

Avg Amt: 352240 pounds Avg Daily Amt code: 05 (100,000 - 999,999 pounds)

No. of days on-site: 365

STORAGE CODES & STORAGE LOCATIONS:

Container Type: A Pressure: 2 Temp: 7 Location: 250 Area Test Tanks Amount: pounds

Container Type: A Pressure: 2 Temp: 7 Location: 400 Area Altitude Test Tanks Amount: pounds

Container Type: A Pressure: 2 Temp: 7 Location: 800 Area Test Tanks Amount: pounds

CHEMICALS IN INVENTORY STATE FIELDS:

No additional chemical information is required by New Mexico

CHEM NAME: METHYL HYDRAZINE

CAS: 60-34-4

Identical to previous year

TRADE SECRET

Pure  Mix  Solid  Liquid  Gas  EHS

PHYSICAL & HEALTH HAZARDS:

Fire  Sudden Release of Pressure  Reactivity  Immediate (acute)  Delayed (chronic)

INVENTORY:

Max Amt: 89597 pounds Max Daily Amt code: 04 (10,000 - 99,999 pounds)

Avg Amt: 72022 pounds Avg Daily Amt code: 04 (10,000 - 99,999 pounds)

No. of days on-site: 365

STORAGE CODES & STORAGE LOCATIONS:

Container Type: L Pressure: 2 Temp: 4 Location: 200 Area Chemistry Laboratory Amount: pounds

Container Type: A Pressure: 2 Temp: 4 Location: 300 Area Storage/Dump Tanks Amount: pounds

Container Type: A Pressure: 2 Temp: 4 Location: 400 Area Storage/Dump Tanks Amount: pounds

Tier Two  
Emergency and Hazardous Chemical Inventory  
Specific Information by Chemical

Reporting Period: January 1 to December 31, 2006

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Facility Name: NASA White Sands Test Facility

Container Type: D Pressure: 1 Temp: 4 Location: 500 Area Remote Storage Amount: pounds  
CHEMICALS IN INVENTORY STATE FIELDS:

No additional chemical information is required by New Mexico

CHEM NAME: NITROGEN GAS

CAS: 7727-37-9

Identical to previous year

TRADE SECRET

Pure  Mix  Solid  Liquid  Gas  EHS

PHYSICAL & HEALTH HAZARDS:

Fire  Sudden Release of Pressure  Reactivity  Immediate (acute)  Delayed (chronic)

INVENTORY:

Max Amt: 40024 pounds Max Daily Amt code: 04 (10,000 - 99,999 pounds)

Avg Amt: 29896 pounds Avg Daily Amt code: 04 (10,000 - 99,999 pounds)

No. of days on-site: 365

STORAGE CODES & STORAGE LOCATIONS:

Container Type: L Pressure: 2 Temp: 4 Location: 100 Area Warehouse Amount: pounds

Container Type: A Pressure: 2 Temp: 4 Location: 400 Area Storage Tank Amount: pounds

Container Type: A Pressure: 2 Temp: 4 Location: 500 Cryo Area Amount: pounds

Container Type: R Pressure: 2 Temp: 4 Location: Associated with the Site-wide Piping System Amount: pounds

Container Type: L Pressure: 2 Temp: 4 Location: 600 Area Sampling Dewars/K-bottles Amount: pounds

CHEMICALS IN INVENTORY STATE FIELDS:

No additional chemical information is required by New Mexico

CHEM NAME: OXYGEN

CAS: 7782-44-7

Identical to previous year

TRADE SECRET

Pure  Mix  Solid  Liquid  Gas  EHS

PHYSICAL & HEALTH HAZARDS:

Fire  Sudden Release of Pressure  Reactivity  Immediate (acute)  Delayed (chronic)

INVENTORY:

Max Amt: 38295 pounds Max Daily Amt code: 04 (10,000 - 99,999 pounds)

Avg Amt: 26068 pounds Avg Daily Amt code: 04 (10,000 - 99,999 pounds)

No. of days on-site: 365

STORAGE CODES & STORAGE LOCATIONS:

Container Type: L Pressure: 2 Temp: 4 Location: 100 Area Warehouse Amount: pounds

Container Type: A Pressure: 2 Temp: 5 Location: 250 Area Test Tanks Amount: pounds

CHEMICALS IN INVENTORY STATE FIELDS:

No additional chemical information is required by New Mexico

CHEM NAME: PROPANE

CAS: 74-98-6

Identical to previous year

TRADE SECRET

Pure  Mix  Solid  Liquid  Gas  EHS

PHYSICAL & HEALTH HAZARDS:

Fire  Sudden Release of Pressure  Reactivity  Immediate (acute)  Delayed (chronic)

INVENTORY:

Tier Two  
Emergency and Hazardous Chemical Inventory  
Specific Information by Chemical

Reporting Period: January 1 to December 31, 2006

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Facility Name: NASA White Sands Test Facility

Max Amt: 22370 pounds    Max Daily Amt code: 04 (10,000 - 99,999 pounds)  
Avg Amt: 12535 pounds    Avg Daily Amt code: 04 (10,000 - 99,999 pounds)  
No. of days on-site: 365

STORAGE CODES & STORAGE LOCATIONS:

Container Type: L	Pressure: 2	Temp: 4	Location: 300 Area Burner Tanks	Amount: pounds
Container Type: L	Pressure: 2	Temp: 4	Location: 400 Area Burner Tanks	Amount: pounds
Container Type: L	Pressure: 2	Temp: 4	Location: 600 Area Small Tanks	Amount: pounds
Container Type: L	Pressure: 2	Temp: 4	Location: 800 Area Burner Tanks	Amount: pounds

CHEMICALS IN INVENTORY STATE FIELDS:

No additional chemical information is required by New Mexico

FACILITY STATE FIELDS:

No additional information is required by New Mexico

STATE / LOCAL FEES: None.

- I have attached a site plan
- I have attached a list of site coordinate abbreviations
- I have attached a description of dikes and other safeguard measures

**Certification (Read and sign after completing all sections)**

I certify under penalty of law that I have personally examined and am familiar with the information submitted in pages one through 7,  
and that based on my inquiry of those individuals responsible for obtaining this information, I believe that the submitted information is true, accurate, and complete.

Radel Bunker-Farrah

2/20/2007

Name and official title of owner/operator  
OR owner/operator's authorized representative

\_\_\_\_\_  
Signature

Date signed