



Risk Reduction & Environmental Stewardship Division  
Meteorology & Air Quality Group  
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Date: February 10, 2004  
Refer to: RRES-MAQ:04-051

Dr. John Volkerding  
New Mexico Environmental Department  
Air Quality Bureau  
2048 Galisteo Street  
Santa Fe, NM 87505

Dear Dr. Volkerding:

Enclosed is the Los Alamos National Laboratory (LANL) Annual Fire Activity Report for calendar year 2003. This notification is required by our four open burn permits and reports open burn activities conducted at LANL during 2003. Our open burn permits, which were issued on December 27, 2002, are TA-11-OB-2003, TA-14-OB-2003, TA-16-OB-2003 (as modified by NMED letter dated March 18, 2003), and TA-36-OB-2003. We have listed the permit conditions in the Fire Activity Report and have included a summary for each permit. From the report summaries, LANL is in compliance with the terms and conditions of each permit. LANL has also complied with all notification and hours of operation requirements.

In addition to our permitted sites, two open burns were conducted at LANL's TA-36 Minie Site. These burns were conducted on February 27, 2003 and December 18, 2003. The open burn conducted on December 18, 2003 was verbally approved by NMED on December 17, 2003 and documented in a letter to NMED dated January 15, 2004. An additional burn was conducted at this site on February 27, 2003. LANL verbally notified NMED of this burn on January 22, 2004. Both burns are documented in the Annual Fire Activity Report. In the future, LANL will ensure that these open burns are conducted at the permitted TA-36 Sled Track Area.

If you have any questions concerning this report, please contact Steve Story at (505) 665-2169 or Harold Martinez at (505) 665-8863.

Sincerely,

A handwritten signature in cursive script that reads 'Jean M. Dewart'.

Jean Dewart  
Group Leader

Cy:

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G. Vasilik, DX-4, C925  
P. Wardwell, LC-ESH, A187  
R. Weeks Jr., NMED State of NM Environmental Div., J993  
RRES-DO File, J591  
RRES-MAQ Open Burn Log File  
RRES-MAQ File, J978

**FIRE ACTIVITY OPEN BURN LOG FOR CALENDER YEAR 2003**  
**LA-UR:04-0736**

**ALL OPERATIONS UNDER PERMITS;**  
**TA-11-OB-2003, TA-14-OB-2003, TA-16-OB-2003, TA-36-OB-2003**

<b>TECHNICAL AREA</b>	<b>OPERATION</b>	<b>DATE/WEEK BURN EVENT</b>	<b>ACCUMULATIVE BURN DURATION</b>	<b>FUEL TYPE</b>	<b>FUEL QUANTITY</b>	<b>FIRE STARTER</b>
<b>TA-11</b>	<i>Fuel and Wood Fire Testing</i>	No Burns				
	<b>Annual Summary:</b>	No Burns in 2003				
	<b>Permit Conditions:</b>	<ul style="list-style-type: none"> <li>- maximum of 5 fuel fire and 5 wood fire burns annually</li> <li>- 2000 lbs per burn / 10,000 lbs per year of wood</li> <li>- 800 gals per burn / 4,000 gals per year of Jet A or Diesel</li> <li>- 100 lbs per burn / 1,000 lbs per year of HE</li> <li>- 88 lbs per burn / 880 lbs per year of DU</li> <li>- ½ gal per burn / 2.5 gal per year of starter fluid</li> </ul>				
<b>TA-14</b>	<i>Burn Cage -- HE Contaminated Waste</i>	<i>Feb. 12, 2003</i>	<i>1-Hour</i>	<i>HE Contaminated Combustibles</i>	<i>22 lbs.</i>	<i>½ gals. Kerosene</i>
		<i>Mar. 19, 2003</i>	"	"	<i>31.25 lbs.</i>	"
		<i>Aug. 04, 2003</i>	"	"	<i>44 lbs.</i>	"
		<i>Aug. 05, 2003</i>	"	"	<i>49 lbs.</i>	"
		<i>Aug. 06, 2003</i>	"		<i>37 lbs.</i>	"
		<b>Total:</b>				<b>183.25 lbs</b>
<b>Annual Summary:</b>	<ul style="list-style-type: none"> <li>- Number of Burns: 5 burns</li> <li>- Lbs of HE Contaminated Combustibles: 183.25 lbs total (≤ 50 lbs/burn)</li> </ul>					
<b>Permit Conditions</b>	<ul style="list-style-type: none"> <li>- 18 burns per year</li> <li>- 50 lbs of HE contaminated combustibles per burn</li> <li>- ½ gal starter fluid per burn</li> </ul>					

**FIRE ACTIVITY OPEN BURN LOG FOR CALENDER YEAR 2003**  
**LA-UR:04-0736**

<b>TECHNICAL AREA</b>	<b>OPERATION</b>	<b>DATE/WEEK BURN EVENT</b>	<b>ACCUMULATIVE BURN DURATION</b>	<b>FUEL TYPE</b>	<b>FUEL QUANTITY</b>	<b>FIRE STARTER</b>		
TA-16	Flash Pad -- HE Contaminated Combustible Waste	Jan. 13, 2003	½ Hour	HE Contaminated Combustible Solids	50 lbs.	Propane		
		Jan. 14, 2003	"	"	40 lbs.	"		
		Jan. 14, 2003	"	"	25 lbs.	"		
		Jan. 29, 2003	"	"	40 lbs.	"		
		Jan. 29, 2003	"	"	35 lbs.	"		
		Mar. 3, 2003	"	"	42 lbs.	"		
		Mar. 3, 2003	"	"	40 lbs.	"		
		Mar. 4, 2003	"	"	50 lbs.	"		
		Mar. 31, 2003	"	"	30 lbs.	"		
		April 1, 2003	"	"	50 lbs.	"		
		April 1, 2003	"	"	30 lbs.	"		
		July 29, 2003	"	"	48 lbs.	"		
		Aug. 28, 2003	"	"	50 lbs.	"		
		Dec. 11, 2003	"	"	50 lbs.	"		
		Dec. 17, 2003	"	"	50 lbs.	"		
				<b>Total:</b>			<b>630 lbs</b>	
		Flash Pad -- Scrap Metal	Scrap Metal	Mar. 26, 2003	½ Hour	Scrap Metal	N/A	"
Mar. 27, 2003	"			"	N/A	"		
May 07, 2003	"			"	N/A	"		
Oct. 08, 2003	"			"	N/A	"		
Oct. 09, 2003	"			"	N/A	"		
Oct. 15, 2003	"			"	N/A	"		
Oct. 16, 2003	"			"	N/A	"		
Oct. 28, 2003	"			"	N/A	"		
Nov. 05, 2003	"			"	N/A	"		
Nov. 06, 2003	"			"	N/A	"		
Nov. 17, 2003	"			"	N/A	"		
Nov. 25, 2003	"	"	N/A	"				
Flash Pad -- HE Contaminated Machining Scrap	HE Scrap	Feb. 11, 2003	½ Hour	HE Scrap	150 lbs.	Propane		
		Feb. 19, 2003	"	"	125 lbs.	"		
		Feb. 20, 2003	"	"	110 lbs.	"		
		Feb. 24, 2003	"	"	18 lbs.	"		
		Feb. 25, 2003	"	"	85 lbs.	"		
		Mar. 10, 2003	"	"	34 lbs.	"		
		Mar. 25, 2003	"	"	49 lbs.	"		
		Apr. 02, 2003	"	"	125 lbs.	"		
		Apr. 03, 2003	"	"	100 lbs.	"		
		Apr. 09, 2003	"	"	105 lbs.	"		
		Apr. 10, 2003	"	"	40 lbs.	"		
		May 28, 2003	"	"	90 lbs.	"		
		May 29, 2003	"	"	80 lbs.	"		
		June 17, 2003	"	"	120 lbs.	"		
		June 18, 2003	"	"	115 lbs.	"		
		June 19, 2003	"	"	30 lbs.	"		
		July 24, 2003	"	"	187 lbs.	"		
July 21, 2003	"	"	240 lbs.	"				
July 22, 2003	"	"	105 lbs.	"				
July 28, 2003	"	"	95 lbs.	"				
July 29, 2003	"	"	105 lbs.	"				

**FIRE ACTIVITY OPEN BURN LOG FOR CALENDER YEAR 2003**  
**LA-UR:04-0736**

<b>TECHNICAL AREA</b>	<b>OPERATION</b>	<b>DATE/WEEK BURN EVENT</b>	<b>ACCUMULATIVE BURN DURATION</b>	<b>FUEL TYPE</b>	<b>FUEL QUANTITY</b>	<b>FIRE STARTER</b>
		July 29, 2003 Sept. 02, 2003 Sept. 03, 2003 Sept. 15, 2003 Sept. 17, 2003 Sept. 18, 2003 Sept. 29, 2003 Oct. 20, 2003 Oct. 21, 2003 Oct. 22, 2003 Dec. 04, 2003	" " " " " " " " " " "	" " " " " " " " " " "	48 lbs. 150 lbs. 36 lbs. 110 lbs. 100 lbs. 90 lbs. 30 lbs. 137 lbs. 135 lbs. 20 lbs. 100 lbs.	" " " " " " " " " " "
		<b>Total:</b>			<b>3064 lbs.</b>	
	<i>Flash Pad -- HE Contaminated Liquid</i>	Feb. 03, 2003 Feb. 03, 2003 Feb. 04, 2003 Sept. 30, 2003 Oct. 01, 2003 Oct. 02, 2003 Dec. 02, 2003	½ Hour " " " " "	<i>HE Contaminated Solvents</i> " " " " "	10 Gals 0.25 Gals 15 Gals 10 Gals 15 Gals 17.1 Gals 15.25 Gals	<i>Propane</i> " " " " "
		<b>Total:</b>			<b>82.6 gals</b>	
	<b>Annual Summary:</b>	<ul style="list-style-type: none"> <li>- Propane : 1,975 gals</li> <li>- HE: 3064 lbs</li> <li>- HE Contaminated Combustible solids: 630 lbs (assume 5% HE: 31.5 lbs HE)</li> <li>- HE Contaminated Oil/solvents: 82.6 gals</li> </ul>				
	<b>Permit Conditions</b>	<ul style="list-style-type: none"> <li>- 20,000 gals propane</li> <li>- 21,000 lbs HE</li> <li>- 5,200 lbs HE contaminated combustible solids</li> <li>- 1,000 gal HE contaminated oil/solvents</li> </ul>				

**FIRE ACTIVITY OPEN BURN LOG FOR CALENDER YEAR 2003**  
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<b>TECHNICAL AREA</b>	<b>OPERATION</b>	<b>DATE/WEEK BURN EVENT</b>	<b>ACCUMULATIVE BURN DURATION</b>	<b>FUEL TYPE</b>	<b>FUEL QUANTITY</b>	<b>FIRE STARTER</b>
<b>TA-36</b>	<i>Sled Track Area -- HE Wood Waste</i>	<i>No Burns</i>				
	<i>Minie Site</i>	<i>Feb 27, 2003</i>	<i>1.5 hours</i>	<i>Wood HE</i>	<i>250 lbs 1055.1 grams</i>	<i>Kerosene 2 gals.</i>
		<i>Dec. 18, 2003</i>	<i>1.5 hours</i>	<i>Wood HE</i>	<i>250 lbs. 10 grams</i>	<i>Kerosene 2 gals.</i>
	<b>Annual Summary:</b>	<i>No Burns in 2003at the Sled Track Area</i>				
		<i>2 burns conducted at Minie Site [NMED provided verbal approval for the December Minie Site activities to be performed under the Sled Track permit.]</i>				
		<ul style="list-style-type: none"> <li>- 2 burns</li> <li>- 500 lbs of wood</li> <li>- 1065.1 grams of HE</li> </ul>				
	<b>Permit Conditions</b>	<ul style="list-style-type: none"> <li>- 8 burns per year</li> <li>- 2000 lbs wood per burn</li> <li>- 45 kg of HE per burn</li> <li>- 40 kg of DU per burn</li> </ul>				
<i>Open Burn Area</i>	<i>No Burns</i>					
<b>Annual Summary:</b>	<i>No Burns 2003</i>					
<b>Permit Conditions</b>	<ul style="list-style-type: none"> <li>- 8 burns per year</li> <li>- 300 m<sup>3</sup> DU contaminated wood per burn</li> <li>- 500 lb combustible waste material and lexan or plexiglass per burn</li> <li>- 10 gals starter fluid per burn</li> </ul>					