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Date: June 22, 2010
Refer To: ENV-RCRA-10-124
LAUR: 10-04131

Mr. James Bearzi
Bureau Chief
Hazardous Waste Bureau
New Mexico Environment Department
2905 Rodeo Park Drive East, Building 1
Santa Fe, NM 87505-6303

SUBJECT: BUILDINGS OR FIXED STRUCTURES SCHEDULED TO BE DEMOLISHED DURING THIRD QUARTER 2010 (LA-UR 10-04131)

The purpose of this letter is to submit a list of buildings or fixed structures scheduled to be demolished during the third quarter of 2010 (July 1, 2010 through September 30, 2010). This information is required under the provisions of the Settlement Agreement and Stipulated Final Order (Agreement) signed April 10, 2007 between the New Mexico Environment Department (NMED) the United States Department of Energy (DOE) and Los Alamos National Security, LLC (LANS). This list is submitted to satisfy the requirements of Paragraph 21 subparagraph (c) of the Agreement.

The attached table describes the buildings or fixed structures scheduled for demolition, and for each: the historic uses and dates of operation; solid waste management units (SWMUs) or areas of concern (AOC) within 50 feet; categories of potential wastes generated or managed there, the date or quarter in which the demolition is scheduled to begin and buildings or fixed structures identified in previous fiscal year that were not demolished.

Please contact Mark Haagenstad at (505) 665-2014 of the Water Quality and RCRA Group (ENV-RCRA) if you have questions.

Sincerely,

Handwritten signature of Anthony R. Grieggs

Anthony R. Grieggs
Group Leader
Water Quality & RCRA Group (ENV-RCRA)



ARG:CJ/lm

Enclosure: a/s

Cy: George Rael, LASO-EO, w/o enc., A316
Gene Turner, LASO-EO, w/o enc., A316
Michael B. Mallory, PADOPS, w/o enc., A102
Jay Johnson, PADOPS, w/o enc., A102
J. Chris Cantwell, ADESHQ, w/o enc., K491
Alison Dorries, WES-DO, w/o enc., M996
Jim Jones, SP-DO, w/o enc., J590
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Catherine Juarez, ENV-RCRA, w/enc., K490
Darrik Stafford, SP-DISP, w/enc., J590
Ian Albright, PMF-DO, w/enc., J590
Allan Chaloupka, TA-21, w/enc., C348
Duane Parsons, PMFS, w/enc., C349
Kevin Finn, PMFS, w/enc., C349
Ellen Louderbough, LC-LESH, w/o enc., A187
ENV-RCRA File, w/enc., K490
IRM-RMMSO, w/enc., A150

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Technical Area (TA) and building number	Type of Structure	Current and historic uses	Approximate dates of Operation	Solid Waste Management Units (SWMU)/ Areas of Concern (AOC) w/in 50 ft. of footprint	Category	Date /Quarter Demolition expected to begin	Buildings or Fixed Structures identified in previous fiscal year that were not demolished
15-0562	Cement block wall	"Laboratory" building for assembly and mechanical testing. Most recently used for large bore powder gun.	2002-2010	<p>SWMU 15-006(b) is the active Ector firing site located along the eastern side of TA-15. The firing site was used for dynamic radiography of explosion-driven weapons components. The firing site was originally established in 1973 and used periodically until 1982. The Ector radiography machine was then constructed at this site, and the site has operated with this machine from the mid-1980s until the present. Investigation of SWMU 15-006(b) is being deferred per Table IV-2 of the Consent Order. SWMU 15-014(m) is a drainline and former outfall permitted under National Pollutant Discharge Elimination System (NPDES) Permit Number 04A143. This drainline and outfall handled non-contact cooling water from Building TA-15-306. SWMU 15-014(m) was approved for no further action by NMED.</p>		3rd Quarter	
21-0002	Lab-Processing/Plutonium	Pre-engineered, steel framed warehouse-type building used for plutonium processing, waste storage activities and americium recovery operations. Later used for D&D activities and by the Environmental Studies Group (LS-6) of the Laboratory Life Sciences	1945-2006	<p>AOC C-21-006, location of a 1977 release of americium-241 from a leaking transport trailer near Building 21-2. The contaminated area was covered with asphalt. AOC C-21-021, former storage hut - approved of NFA. AOC 21-008, former incinerators - approved for NFA. SWMU 21-022(b)-99, which consists of SWMUs 21-022(b,c,d,e, and g), waste lines and their associated underground, plutonium-bearing, liquid waste sumps built in 1945 and were located along the north side of the TA-21 plutonium-processing complex. The sumps and sections of drainlines were removed in 1979-1980. These SWMUs will not be impacted by the D&D of Bldg. 21-2 and will be addressed in a future investigation work plan. SWMU 21-022(i) is a former sump and associated pump that was located in the equipment room at the southeast corner of Building 21-2; the sump was removed in 1994-1995.</p>	Asbestos floor tile, fittings and valves, tran site	3rd Quarter	

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21-0003	Lab-Processing/Plutonium	Plutonium and uranium processing and research, D&D operations	1945-2006	<p>SWMU 21-022(b)-99, which consists of SWMUs 21-022(b,c,d,e, and g), waste lines and their associated underground, plutonium-bearing, liquid waste sumps built in 1945 and were located along the north side of the TA-21 plutonium-processing complex. The sumps and sections of drainlines were removed in 1979-1980. These SWMUs will not be impacted by the D&D of Bldg. 21-3 and will be addressed in a future investigation work plan. SWMU 21-006(d) may be associated with a concrete pad and French drain system called the 21-272 dock. Waste from a second-story chemical makeup room was reportedly dumped or pumped into a stone-filled seepage pit, most likely SWMU 21-006(c) located 15 ft outside the door to Room 322 at Building 21-3. SWMUs 21-006(c and d) were addressed during the DP Canyon Aggregate Area investigation and subsequent report.</p>	Asbestos floor tile, fittings and valves,transite, woven material	3rd Quarter	
21-0004	Lab-Processing/Plutonium	Plutonium and uranium processing and research, D&D operations	1945-2006	<p>SWMU 21-022(b)-99, which consists of SWMUs 21-022(b,c,d,e, and g), waste lines and their associated underground, plutonium-bearing, liquid waste sumps built in 1945 and were located along the north side of the TA-21 plutonium-processing complex. The sumps and sections of drainlines were removed in 1979-1980. These SWMUs will not be impacted by the D&D of Bldg. 21-4. SWMU 21-006(e)-99 consists of SWMU 21-006(e) and AOC 21-006(f), inactive underground seepage pits. SWMU 21-006(e) is described as located south of former Building 21-4. AOC 21-006(f) is a gravel seepage pit located on the south side of the DP West complex. The seepage pit may have received up to 4000 liters per day of hydrogen fluoride wastewater from a hydrofluorination process located in Room 413 of former Building 21-4. E11</p>	Asbestos floor tile, fittings and valves,transite, woven material, fire door	3rd Quarter	

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21-0005	Lab-Processing/Plutonium	Plutonium processing and research, D&D operations	1945-2006	SWMU 21-022(b)-99 , which consists of SWMUs 21-022(b,c,d,e, and g) , waste lines and their associated underground, plutonium-bearing, liquid waste sumps built in 1945 and were located along the north side of the TA-21 plutonium-processing complex. The sumps and sections of drainlines were removed in 1979-1980. These SWMUs will not be impacted by the D&D of Bldg. 21-5 and will be addressed in a future investigation work plan.	Asbestos floor tile, fittings and valves, transite, woven material, fire door	3rd Quarter	
21-0031	Concrete walls covered with stucco.	Currently inactive, formerly used as carpentry shop, electrical shop, plumbing and welding shop.	1948-2006	AOC 21-002(b) is a former drum storage structure (21-0038) located southeast of Building 21-0031. Fifty-five-gal. drums were stored upright within the structure and on the ground immediately outside the building. The storage structure was decommissioned in 1966. This site is being investigated as part of DP Site Aggregate Area. SWMU 21-024(g) is an inactive septic system that received sewage from building 21-0031 and a warehouse (21-0007). The septic tank and outfall were located north of 21-0031. The septic tank and drainline have been removed and the site characterized as part of the DP Aggregate Area investigation.		3rd Quarter	
21-0116	Equipment Warehouse	Restroom, Equipment Warehouse, Conference Room	1950-2006	SWMU 21-024(b) was a septic system that formerly routed sewage from Building 21-17 (a passageway decommissioned in 1969) through a septic tank (structure 21-55) to the surface south of Building 21-5. The septic tank was removed during the DP Canyon Aggregate Area investigation and documented in the subsequent IR.	Asbestos fittings, gaskets, roofing	3rd Quarter	
21-0149	Support	Infrastructure, Corridor between TA-21-5 and TA-21-150	1962-2006	None*	Asbestos floor tile, fittings and valves, fire door, surfacing	3rd Quarter	

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21-0150	Lab	Plutonium fuel development; building contained laser lab, wet lab, offices, also served as a non-nuclear laboratory.	1962-2006	AOC 21-028(b) consists of three former SAAs located inside of building 21-150 under hoods within rooms 603, 605, and 607 for alcohols, solvents, and other miscellaneous chemicals. These SAAs have been removed from service and have been approved for NFA. SWMU 21-022(h) is a sump (structure 21-202), its drainline, and a formerly permitted outfall. Structure 21-202 is an acid industrial-waste sump built from 1961 to 1962 from 36-in. CMP. It received industrial wastewater and drainage from basement floor drains and roof drains in Building 21-150. This SWMU will not be impacted during the D&D of Bldg. 21-150, but will be addressed in a future investigation work plan.	Asbestos floor tile, fittings and valves, roofing material, transite	3rd Quarter	
21-0152	Research and Production	High Temperature chemistry laboratory for polonium initiatiir research and production and then the Rover Project. Also used as a laboratory for tritium research and technology in support of the fusion problem.	19-46-2006	SWMU 21-022(f) is an inactive sump and drainline that received industrial wastes from Buildings 21-0152 and 21-0370. SWMU 21-024(h) is an inactive septic system that received sewage from Buildings 21-0151 and 21-0152. SWMU 21-024(n) is a drainline that exits Building 21-155 and discharges into DP Canyon. The sump, septic tank, and drainlines associated with these sites have been removed and the sites characterized as part of DP Aggregate Area investigation. AOCs 21-019(k and l) are soil contamination from stack emissions. AOC C-21-032 is a standby diesel generator in the basement of Building 21-152. The latter three sites were approved for NFA by EPA.	Asbestos tile, fire door, fittings, valves, roofing	3rd Quarter	

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21-0155	Research and Production	Offices, storage, equipment, also used for support of high temperature chemistry work, and for tritium research and production center	1949-2006	<p>AOC C-21-011 is the location of a 1963, one-time release of radionuclides (uranium-235) from a plugged scrubber on the roof of Building TA-21-0155, the Tritium Systems Test Assembly facility. The affected area was cleaned up and the site was approved for NFA.</p> <p>SWMU 21-024(j) consists of an inactive septic tank (structure 21-194) and its associated drainlines. This septic tank received sewage from Building 21-155. The septic tank was removed during the DP Canyon Aggregate Area investigation and documented in the subsequent IR. SWMU 21-024(n) is a drainline that exits Building 21-155 and discharges into DP Canyon. This SWMU will not be impacted by the D&D of Bldg. 21-0155 and will be addressed in a future investigation work plan.</p> <p>AOC 21-025(a) was an off-gas system at the Tritium Systems Test Assembly (TSTA) facility, building 21-155; the AOC has been approved for NFA.</p>	Asbestos tile, fire door, fittings, valves, roofing	3rd Quarter	
21-0209	Research and Administrative	High temperature chemistry facility and administrative office building for the Rover Project and the fusion project.	1965-2006	<p>SWMU 21-024(i) is a septic system that received discharges from Buildings 21-0152 and 21-0209. The septic tank and drainlines have been removed and the site characterized as part of the DP Aggregate Area investigation.</p> <p>AOC 21-028(d) is a less-than-90-day storage area located on a concrete loading dock on the northwest side of Building 21-0209. This site is being investigated as part of the DP Site Aggregate Area. AOCs 21-019(f and l) are soil contamination from stack emissions. AOC 21-020(b) is a former filter house. AOC 21-025(b) is an off-gas system associated with Building 21-0209. The latter four sites were approved for NFA by EPA.</p>	Asbestos tile, fire door, fittings, valves, roofing	3rd Quarter	

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21-0212	Concrete block walls.	Currently inactive, formerly used as calcium grinding and storage facility.	1964-2006	AOC C-21-013 was identified in the 1990 SWMU Report as a waste storage pit located immediately east of Building 21-0212. Investigations by LANL ER staff determined that TA-21-0331 was identified as being cancelled in LANL engineering records and was probably never built. The pit could not be located during field investigations and this AOC was approved for NFA by EPA because it never existed.		3rd Quarter	
21-0213	Warehouse	General warehouse	1964-2006	None*		3rd Quarter	
21-0312	Corridor	Corridor connecting Building TA-21-21- and TA-21-2 for personnel, utility piping and conduits	1971-2006	None*	Asbestos fittings, valves	2nd Quarter - 30-day notification sent in letter dated May 20, 2010; Reference EP2010-0259	
21-0313	Corridor	Corridor between Buildings TA-21-2 and former TA-21-3 for personnel, utility piping and conduits	1971-2006	SWMU 21-006(a) is an unmarked underground seepage pit of about 0.1-acre, located between Building 21-2 and former Building 21-3. The pit was used to dispose of liquids from the Hanford radioactive materials container-washing operation. The liquids contained ethylene glycol, phosphoric acid, and plutonium. It is not known if the seepage pit is located on the north or south side of the corridor that connected the buildings. SWMU 21-006(b), structure 21-118, the only pit with a known drainline, was used to dispose of ether wastes from Building 21-2 where a plutonium purification process used a double ether extraction. The pit may have been installed in 1945 as part of the new plutonium-extraction facilities at TA-21. The inlet line (structure 21-134) originated from the east side of Building 21-2 and ran southward to the pit. These SWMUs will not be impacted by the D&D of Bldg. 21-313 and will be addressed in a future investigation work plan. SWMU 21-023(a)-99 consists of SWMUs 21-023(a, b, and d). These SWMUs are the former locations of septic tanks and their associated inlet and outlet	Asbestos fittings, valves, fire door	3rd Quarter	

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21-0314	Corridor	Corridor between Buildings TA-21-3 and TA-21-4 for personnel, utility piping and conduits	1971-2006	SWMU 21-023(a)-99 consists of SWMUs 21-023(a, b, and d) . These SWMUs are the former locations of septic tanks and their associated inlet and outlet lines beneath the footprint of a former plutonium processing building (Building 21-3N). Except for some of the lines, these septic systems underwent D&D in 1966. These SWMUs will not be impacted by the D&D if Bldg. 21-313 and will be addressed in a future investigation work plan. SWMU 21-006(e)-99 consists of SWMU 21-006(e) and AOC 21-006(f) , inactive underground seepage pits. The length of time during which the seepage pits operated is unknown. These SWMUs will not be impacted by the D&D if Bldg. 21-313 and will be addressed in a future investigation work plan.	Asbestos fittings, valves, fire door, roofing	3rd Quarter	
21-0315	Corridor	Corridor between Buildings TA-21-4 and TA-21-5 for personnel, utility piping and conduits	1971-2006	SWMU 21-024(b) was a septic system that formerly routed sewage from Building 21-17 (a passageway decommissioned in 1969) through a septic tank (structure 21-55) to the surface south of Building 21-5. The septic tank was removed during the DP Canyon Aggregate Area investigation and documented in the subsequent IR.	Asbestos fittings, valves, fire door, roofing	3rd Quarter	
21-0357	Prefabricated steel panel walls.	Currently inactive, formerly used as steam plant containing three gas fired boilers and backup diesel generator.	1984-2006	SWMU 21-012(a) is a dry well that was incorrectly identified in the 1990 SWMU Report as being located inside TA-21-0357. The site appears to have actually been located inside the former steam plant (Building 21-0009) which was demolished in 1985. Because this site did not exist, NFA was approved by NMED. SWMU 21-024(a) is a former septic system that routed sewage from the former steam plant (Building 21-0009) through a septic tank to the south rim of DP Mesa. The septic tank and drainline have been removed and the site characterized as part of the DP Aggregate Area investigation.		3rd Quarter	
36-0104			1988 - present	None.		3rd Quarter	

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55-0007		The 55-7 facility was designed and constructed as a storage facility for salts and calcium metal. The facility has also served as a staff shop for metal and plastic mock ups.	1975 to present	AOC 55-002(b) is a waste accumulation area located northeast of building 55-004. The site was used to collect packaged, low-level, radioactively contaminated solid waste consisting primarily of rags, plastic, paper, glassware, packaging material, and metal scraps contaminated with various radionuclides. AOC 55-002(b) was approved for no further action by EPA.		3rd Quarter	
55-0009		Building 55-9 is the current personnel Entry Control Facility into the protected area.	1975 to present	None.		3rd Quarter	