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Environmental Programs
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Date: MAR 12 2012
Refer To: EP2012-0062
KC 3/12/12

George J. Rael, Assistant Manager
Environmental Projects Office
Los Alamos Site Office
National Nuclear Security Administration
3747 West Jemez Road, MS A316
Los Alamos, NM 87544

Subject: Request for Extension for Disposition of Radioactive Waste

Dear Mr. Rael:

As part of ongoing efforts to reduce the volume of radioactive waste stored at Technical Area 54 (TA-54), Waste Projects and Services (WPS) personnel have thoroughly inspected the site to produce an up-to-date inventory of low-level waste (LLW) and mixed LLW (MLLW) containers that require final disposition. A portion of the on-site inventory has been in storage for more than 1 yr. As described in the attached list, "LLW and MLLW in Storage at TA-54, Area G that Exceeds One Year Storage Limit," all the waste that has been in storage for more than 1 yr requires some level of processing or characterization before an appropriate disposition path can be defined.

Therefore, WPS requests approval for storage of the items on the attached list through calendar year 2013 to disposition the items properly either through on-site disposal or off-site treatment and disposition. The final rows describe radioactive waste from the transuranic waste program. The attached list also provides pertinent information on the type and quantity of waste, the current status, and the proposed path forward for each item (based on what is currently known about the items).

If you have any questions or if you need additional information, please contact Chris Duy at (505) 667-5854 (cduy@lanl.gov).

Sincerely,

Andy Baumer, Project-Program Director
Waste Projects and Services
Los Alamos National Laboratory

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Attachment: LLW and MLLW in Storage at TA-54, Area G that Exceeds One Year Storage Limit (LA-UR-12-10438)

AB:sm

Cy: (w/att.)
Lee Bishop, DOE-LASO, MS A316 (date-stamped letter emailed)
George Henckel, DOE-LASO, MS A316 (date-stamped letter emailed)
Andrew Worker, DOE-LASO, MS A316 (date-stamped letter emailed)
Gilbert Montoya, WPS-HMLW, MS J595 (date-stamped letter emailed)
Sean French, WPS-HMLW, MS J910 (date-stamped letter emailed)
Kathy Johns-Hughes, LTP, MS J910 (date-stamped letter emailed)
Steve Clemmons, ENV-DO, MS J910 (date-stamped letter emailed)
Scotty Jones, ENV-DO, MS K491 (date-stamped letter emailed)
Alison Dorries, ENV-DO, MS K491 (date-stamped letter emailed)
Chris Duy, WPS-HMLW, MS J598 (date-stamped letter emailed)
Andy Baumer, WPS-DO, MS J910 (date-stamped letter emailed)
Michael Graham, ADEP, MS M991 (date-stamped letter emailed)

Rad items in Current Inventory

Business Use Only

Last modified: 2/29/2012

Container ID	Item ID	Contents Description	Net Cubic Meters	Net Kg	Outer Container Volume and Type	PHY_ STATE	RCRA Code	Isotope (Total Curies)	Accumulation Start Date	Storage Code	Disposition Plan
C05180336	2140286	Waste (Freon Degrader) Generated As Part Of A Treatability Study U-235 Samples Containing Tc-99 Were Dissolved In Nitric Acid, The HEU Precipitated Wtih H2O2	0.2082	58.51	55 G DM	.S	D007 D008	TC99(3.1800E+00) U234(8.7500E-03) U235(4.9300E-04) U238(2.7800E-05)	10/13/2005	Pad 7 dome 224	To be shipped for commercial treatment when facility is permited, sometime before December 2013.
C00130818	2184458	Cyrotrap (P9cp-12)	0.0025	4.54	50 G DM	S	D009	H3(3.4000E+03)	11/2/2000	Pad 7 shed	To be shipped for commercial treatment by December 2013
C00130818	2184459	Cyrotrap (P9cp-13)	0.0025	4.54	in above	S	D009	H3(7.7000E+03)	11/2/2000	Pad 7 shed	To be shipped for commercial treatment by December 2013
C00130818	2184460	Cyrotrap (P9cp-18)	0.0025	4.54	in above	S	D009	H3(3.4000E+03)	11/2/2000	Pad 7 shed	To be shipped for commercial treatment by December 2013
C00130818	2184461	Cyrotrap (P9cp-22)	0.0025	4.54	in above	S	D009	H3(3.4000E+03)	11/2/2000	Pad 7 shed	To be shipped for commercial treatment by December 2013
C00130818	2184462	Cyrotrap (P9cp-29)	0.0025	4.54	in above	S	D009	H3(7.7000E+03)	11/2/2000	Pad 7 shed	To be shipped for commercial treatment by December 2013
C09203611	2337235	Tritium Contaminated Mole Sieve Packed In Al-M1 Stainless Steel Containers. Containers Are Then Packed In Special Flanged Tritium Waste Containers...	0.321725	376.488	85 G DM	S	NONE	H3(8.2000E+04)	9/27/2007	Pad 7 shed	To be shipped for commercial treatment by December 2013
C09203611	10001011	Stainless Steel Valve Assemblies (Actuators)	(0.0014)	1	in above	S	D008	H3(8.2000E+04)	9/27/2007	Pad 7 shed	To be shipped for commercial treatment by December 2013
C09203612	2337236	Tritium Contaminated Mole Sieve Packed In Al-M1 Stainless Steel Containers. Containers Are Then Packed In Special Flanged Tritium Waste Containers...	0.321725	349.726	85 G DM	S	NONE	H3(2.4000E+04)	9/27/2007	Pad 7 shed	To be shipped for commercial treatment by December 2013
C09203612	10001012	Stainless Steel Valve Assemblies (Actuators)	(0.0012)	18	in above	S	D008	H3(2.4000E+04)	9/27/2007	Pad 7 shed	To be shipped for commercial treatment by December 2013
C09203613	2337239	Tritium Contaminated Mole Sieve Packed In Al-M1 Stainless Steel Containers. Containers Are Then Packed In Special Flanged Tritium Waste Containers...	0.321725	386.014	85 G DM	S	NONE	H3(8.4000E+04)	9/27/2007	Pad 7 shed	To be shipped for commercial treatment by December 2013
C09203613	10001013	Stainless Steel Valve Assemblies (Actuators)	(0.0012)	5.5	in above	S	D008	H3(8.4000E+04)	9/27/2007	Pad 7 shed	To be shipped for commercial treatment by December 2013
C09203614	2337240	Tritium Contaminated Mole Sieve Packed In Al-M1 Stainless Steel Containers. Containers Are Then Packed In Special Flanged Tritium Waste Containers...	0.321725	376.942	85 G DM	S	NONE	H3(3.4000E+04)	9/27/2007	Pad 7 shed	To be shipped for commercial treatment by December 2013
C09203614	10001014	Stainless Steel Valve Assemblies (Actuators)	(0.0012)	5.5	in above	S	D008	H3(3.4000E+04)	9/27/2007	Pad 7 shed	To be shipped for commercial treatment by December 2013
89366700	no item	Repacked - no items. Nested drums - Empty?	0.053	22.6796	85 G DM		NONE	U235(4.5400E-06)		Pad 7 dome 224	Requires IWD and additional characterization for disposal
906332	1001907	Thorium Metal Rods	0.0005	0.45	30 G DM	S	NONE	TH232(5.0000E-05)	8/22/1990	Pad 7 dome 224	Requires IWD and additional characterization for disposal
906332	1001908	Th Metal With Depleted Uranium	0.0001	0.11	in above	S	NONE	TH232(5.0000E-05)	8/22/1990	Pad 7 dome 224	Requires IWD and additional characterization for disposal
906332	1001909	Thoriated Tungsten Electrodes(2%Th)	0.0047	4.54	in above	S	NONE	TH232(5.0000E-05)	8/22/1990	Pad 7 dome 224	Requires IWD and additional characterization for disposal
906332	1001910	Th Metal(Alloy)	0.0005	0.45	in above	S	NONE	TH232(5.0000E-05)	8/22/1990	Pad 7 dome 224	Requires IWD and additional characterization for disposal
906332	1001911	Thorium Metal Crystal Bar	0.0005	0.45	in above	S	NONE	TH232(5.0000E-05)	8/22/1990	Pad 7 dome 224	Requires IWD and additional characterization for disposal
L91021538	1988	Activated Charcoal	0.2082	117.48	85 G DM	S	NONE	PU239(8.2300E-09) H3(3.6300E-07) C14(5.8800E-09) KR85(5.8800E-09)	9/21/1991	Pad 7 dome 224	Requires IWD and additional characterization for disposal
L91021539	1989	Activated Charcoal	0.2082	79.83	85 G DM	S	NONE	C14(7.9900E-08) H3(1.0800E-07) KR85(3.2000E-09) PU239(1.6000E-09)	9/21/1991	Pad 7 dome 224	Requires IWD and additional characterization for disposal
91005996	??	Non-Reg Liquids, labpack	0.2082		55 G DM		NONE		unknown	Pad 7 dome 224	Requires IWD and additional characterization for disposal
Not assigned	2215068	Paint debris, Non-reg	0.2082	200	85 DM	S	NONE	061109AP01	unknown	Pad 7 dome 224	Requires IWD and additional characterization for disposal
Not assigned	10186597	Absorbent/Vermiculite free liquids?	0.2082	220.04	110	S/L	NONE	061109BW01	unknown	Pad 7 dome 224	Requires IWD and additional characterization for disposal
Not assigned	10186598	Absorbent/Vermiculite free liquids?	0.2082	238.64	110	S/L	NONE	061109BW02	unknown	Pad 7 dome 224	Requires IWD and additional characterization for disposal
Not assigned	10186596	Absorbent/Vermiculite free liquids?	0.2082	101.82	110	S/L	NONE	061109BW03	unknown	Pad 7 dome 224	Requires IWD and additional characterization for disposal
Not assigned	10186595	Green Can	0.0189	3.36	4 DM	S	NONE	061109AP05	unknown	Pad 7 dome 224	Requires IWD and additional characterization for disposal
L02153530	2165520	Two Cm244 Sources (300mci Each) Approximately .5 Inch Diameter And .3 Inches In Height Each. Contained In A Special Form Capsule 2	0.000005	0.02	10 G DM	S	NONE	CM244(6.0000E-02)	10/2/2002	Pad 7 dome 224	Awaiting disposal options from Offsite Source Recovery Program
L06187958	10042349	Cm 244 Sealed Sources (130 Sources) La Number: Sn 00517 Serial Number: 00517-130 Sfc Serial Number: Ii-1-0325	0.0057	7.20	55 G DM	S	NONE	CM244(1.6400E+01)	9/15/2006	Pad 7 dome 224	Awaiting disposal options from Offsite Source Recovery Program
L06189049	10042448	Cerium 244 Sources. Greater Than Class C Material.(For Storage Only-Do Not Dispose Of)	0.0014	7.26	55 G DM	S	NONE	CM244(2.3099E-01)	11/29/2006	Pad 7 dome 224	Awaiting disposal options from Offsite Source Recovery Program
Not assigned	??	Caustic Waste Tank	11.38	??	TANK	S	NONE	Plutonium and other isotopes	unknown	Area G	To be size-reduced and disposed in Area G, by December 2013
Not assigned	multiple	Low level WIPP Prohibited items	1.4574		55 G DMs	S	D003	Plutonium and other isotopes	Pre - 1998	Area G	To be shipped for commercial treatment by December 2013
Not assigned	multiple	Reclassified TRU 10-100nCi/g MLLW	155		55 and 85 G DMs	S	multiple	Plutonium and other isotopes	Pre - 1998	Area G	To be shipped for commercial treatment by December 2013
		TOTAL VOLUME of Area G low-level rad waste stored over one year.	**171 m3**								