



Environmental Protection Division
Environmental Compliance Programs (ENV-CP)
 PO Box 1663, K490
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National Nuclear Security Administration
Los Alamos Field Office, A316
 3747 West Jemez Road
 Los Alamos, New Mexico, 87545
 (505) 667-5794/Fax (505) 667-5948

Date: OCT 27 2014

Symbol: ENV-DO-14-0324

LAUR: 14-23795, 14-28120

Locates Action No.: Not Applicable

Mr. John E. Kieling
 Hazardous Waste Bureau
 New Mexico Environment Department
 2905 Rodeo Park Drive East, Building 1
 Santa Fe, NM 87505

Dear Mr. Kieling:

Subject: Transmittal of Diagrams of Standard Waste Boxes Located at Technical Area 54, Dome 375: Container Layout and Thermocouple Diagrams

The purpose of this letter is to transmit information requested during twice weekly phone calls by the New Mexico Environment Department (NMED) on September 11, 2014 and October 9, 2014. Written submissions and twice weekly technical phone calls are conducted between the NMED; Los Alamos National Security, LLC (LANS); and the U.S. Department of Energy (DOE) as stipulated by the modified Administrative Order No. 5-19001 issued by the NMED. The diagrams contained within the enclosures to this letter address Item #s 37 and 39 of the *Summary Chart - Requested Information/Pending Issues* table which is part of the written daily submissions to the NMED from the DOE and LANS, the Permittees.

At NMED's request, a diagram of the locations for each of the standard waste boxes (SWBs) within the Permacon at Technical Area 54, Dome 375 (TA-54-375) is provided in Enclosure 1. This diagram is an enlarged version of the diagram included in the procedure EP-AREAG-PLAN-1248, R.0 *TA-54 Area G Nitrate-Salt Waste Container Response Instructions*. EP-AREAG-PLAN-1248, R.0 is included as Attachment 6 of the *Los Alamos National Laboratory (LANL) Nitrate Salt-Bearing Waste Container Isolation Plan, Revision 2* submitted to the NMED on September 19, 2014. The diagram included in Enclosure 1 is currently undergoing revision and the final revisions of the procedure and the diagram will be provided to the NMED upon finalization.

The two diagrams in Enclosure 2 illustrate the locations of thermocouples affixed on two SWBs (SWB 68685 and SB50522). Two thermocouples are attached to each SWB and are used to remotely monitor the temperature on the surface of the SWBs.

If you have comments or questions regarding this submittal, please contact Mark P. Haagenstad at (505) 665-2014 or Gene E. Turner at (505) 667-5794.

Sincerely,



Alison M. Dorries
Division Leader
Environmental Protection Division
Los Alamos National Security LLC

Sincerely,



Gene E. Turner
Environmental Permitting Manager
Environmental Projects Office
Los Alamos Field Office
U.S. Department of Energy

AMD:GET:MPH:LVH/kt

Enclosures: (1) TA-54-375 SWB Storage Layout Plan
(2) TA-54-375 Thermocouple Diagrams for SWB 68685 and SB50522

Cy:

Ryan Flynn, NMED, Santa Fe, NM, (E-File)
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Steve Pullen, NMED/HWB, Santa Fe, NM, (E-File)
Timothy Hall, NMED/HWB, Santa Fe, NM, (E-File)
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Gene E. Turner, NA-LA, (E-File)
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**NMED
Hazardous Waste Bureau**

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At NMED's request, a diagram of the locations for each of the standard waste boxes (SWBs) within the Permacon at Technical Area 54, Dome 375 (TA-54-375) is provided in Enclosure 1. This diagram is an enlarged version of the diagram included in the procedure EP-AREAG-PLAN-1248, R.0 *TA-54 Area G Nitrate-Salt Waste Container Response Instructions*. EP-AREAG-PLAN-1248, R.0 is included as Attachment 6 of the *Los Alamos National Laboratory (LANL) Nitrate Salt-Bearing Waste Container Isolation Plan, Revision 2* submitted to the NMED on September 19, 2014. The diagram included in Enclosure 1 is currently undergoing revision and the final revisions of the procedure and the diagram will be provided to the NMED upon finalization.



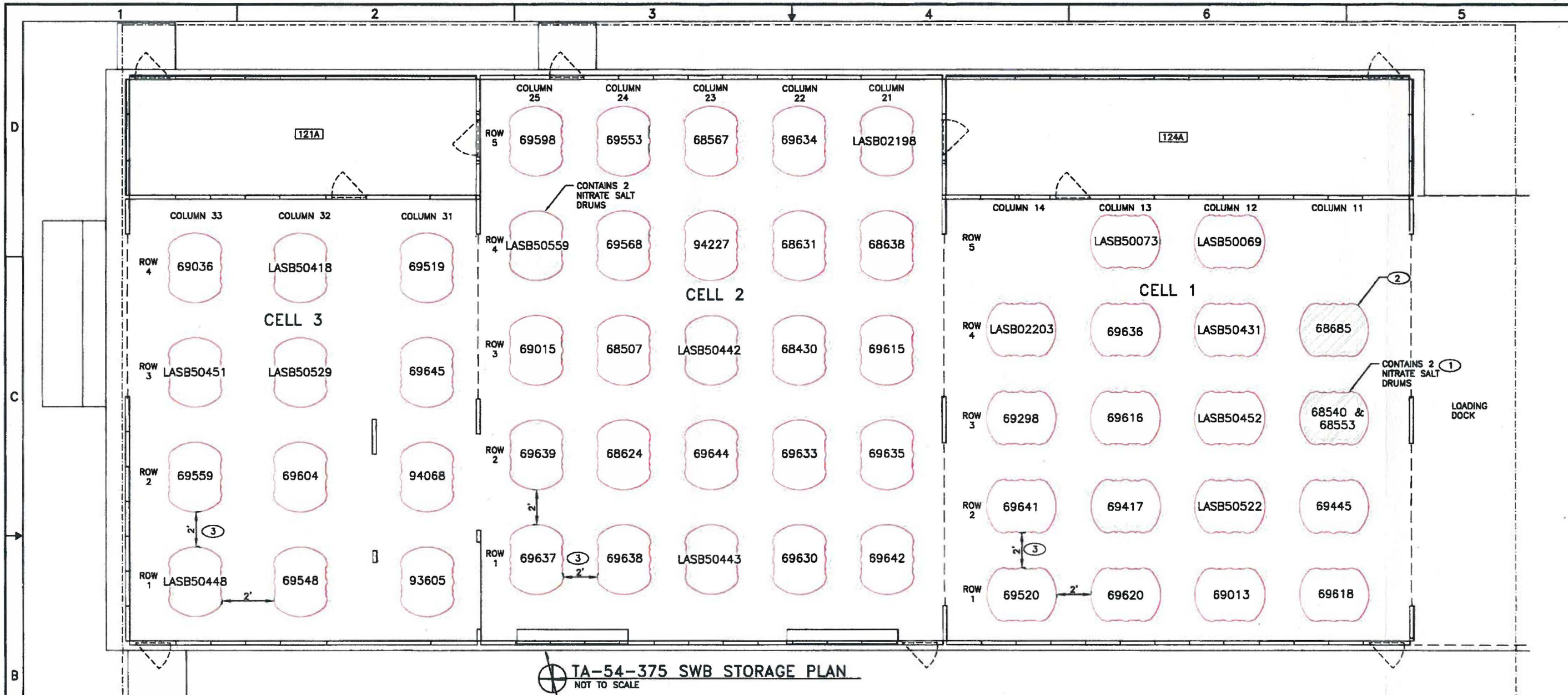
ENCLOSURE 1

TA-54-375 SWB Storage Layout Plan

ENV-DO-14-0324

Excerpt from LA-UR-14-23795

Date: OCT 27 2014



TA-54-375 SWB STORAGE PLAN
NOT TO SCALE

GENERAL NOTES

1. THIS STORAGE PLAN DEPICTS THE LOCATION OF 55 STANDARD WASTE BOXES (SWB) STORED IN 375 PERMACON. THE NUMBER ON EACH SWB IS A CONTAINER ID.

KEYED NOTES

- (1) THIS SWB HAS TWO CONTAINER ID NUMBERS, THE NUMBERS ARE DERIVED FROM TWO NITRATE SALT DRUMS CONTAINED IN THE SWB.
- (2) DRUM 68685 HAS THE SAME PARENT AS DRUM 68660.
- (3) THE SHORTEST DISTANCE BETWEEN SWBs IS APPROXIMATELY 2 FEET.

SWB PECl TABLE - CELL 3			
CONTAINER ID	ROW	COLUMN	PECl
69036	4	33	10.31
LASB50418	4	32	28.62
69519	4	31	17.19
LASB50451	3	33	9.78
LASB50529	3	32	10.21
69645	3	31	16.09
69559	2	33	14.03
69604	2	32	11.57
94068	2	31	28.69
LASB50448	1	33	33.94
69548	1	32	0.84
93605	1	31	14.76

SWB PECl TABLE - CELL 2			
CONTAINER ID	ROW	COLUMN	PECl
69598	5	25	2.04
69553	5	24	12.47
68667	5	23	1.31
69634	5	22	10.96
LASB02198	5	21	23.94
LASB50559	4	25	11.98
69568	4	24	4.52
94227	4	23	1.30
68631	4	22	1.82
68638	4	21	0.41
69015	3	25	3.01
68507	3	24	4.77
LASB50442	3	23	16.73
68430	3	22	11.23
69615	3	21	13.30
69639	2	25	4.42
68624	2	24	0.95
69644	2	23	9.32
69633	2	22	20.18
69635	2	21	4.38
69637	1	25	6.69
69638	1	24	8.11
LASB50443	1	23	34.80
69630	1	22	20.43
69642	1	21	4.91

SWB PECl TABLE - CELL 1			
CONTAINER ID	ROW	COLUMN	PECl
LASB50073	5	13	42.58
LASB50069	5	12	51.80
LASB02203	4	14	22.07
69636	4	13	15.07
LASB50431	4	12	61.58
68685	4	11	8.54
69298	3	14	23.18
69616	3	13	9.75
LASB50452	3	12	37.84
68540 & 68553	3	11	2.17
69641	2	14	9.11
69417	2	13	0.009
LASB50522	2	12	42.60
69445	2	11	5.15
69620	1	14	6.09
69620	1	13	20.42
69013	1	12	0.67
69618	1	11	4.13

NO	DATE	CLASS REV	DC	DESCRIPTION	DWN	DSGN	CHKD	SUB	APP
ENGINEERING SERVICES									
TA-54-375 AS FOUND DRAWING, SWB STORAGE									
SWB STORAGE LAYOUT PLAN									
TA-54					BLDG 375				
SUBMITTED					APPROVED FOR RELEASE				
DAR, CHRISTOPHER PILCHER					FOR, STIVE HENRY				
DESIGN					CHECKED				
R. GRIFFIN					J. MOORE				
DATE 08-17-14					DATE 08-17-14				
PROJECT ID NA					DRAWING NO C-57018				
D.C.: M					REVIEWER: [Signature]				
PROJECT ID NA					D.C.: M				
DRAWING NO C-57018					ESR NO.: NA				
REV 0					DATE 08-17-14				

Excerpt from LA-UR-14-23795

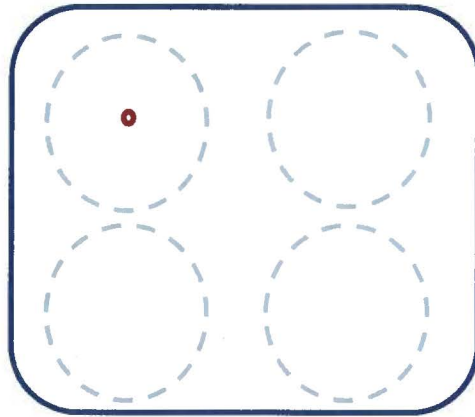
ENCLOSURE 2

**TA-54-375 Thermocouple Diagrams for SWB 68685 and
SB50522**

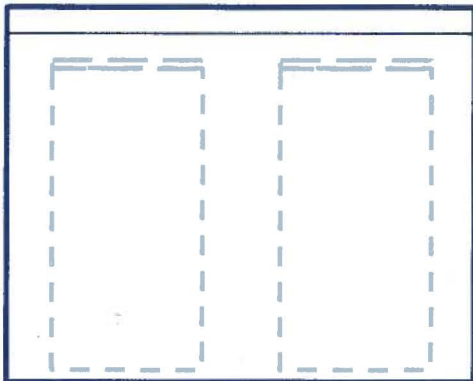
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LA-UR-14-28120

Date: OCT 27 2014



Top View

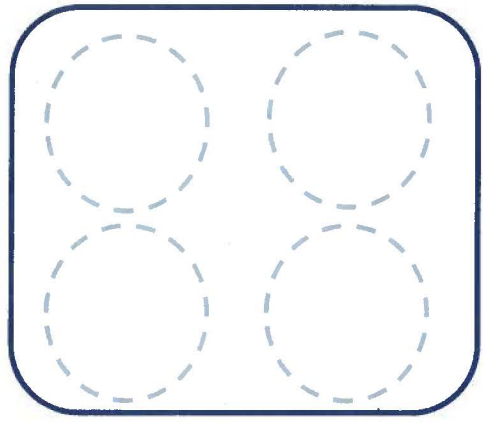


Southside View

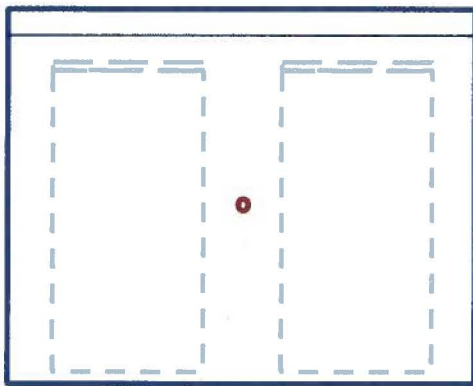


Northside View

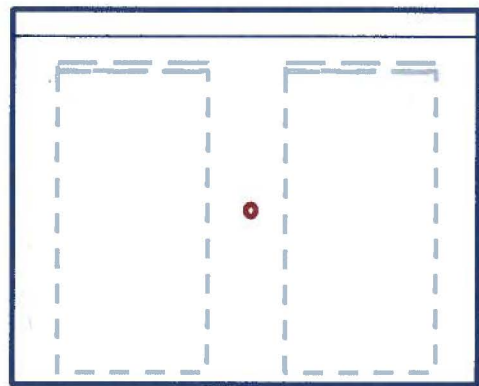
• - thermocouple



Top View



Southside View



Northside View

● - thermocouple