U.S. Department of Energy
Hanford Site

June 16, 2020

20-ECD-0027

Ms. Alexandra K. Smith, Program Manager
Nuclear Waste Program
Washington State
Department of Ecology
3100 Port of Benton Blvd.
Richland, Washington 99354

Dear Ms. Smith:

SUBMITTAL OF THE REMAINING ITEMS REQUIRED FOR THE WASTE TREATMENT AND IMMOBILIZATION PLANT LABORATORY FACILITY CERTIFICATION UNDER PERMIT CONDITION III.10.C.2.a

On February 13, 2020, the Washington State Department of Ecology (Ecology) sent a letter to the U.S. Department of Energy, Office of River Protection (ORP) regarding the Waste Treatment and Immobilization Plant Laboratory certification submittal that the U.S. Department of Energy submitted to complete permit condition III.10.C.2.a. In Ecology's letter, you requested the following items:

1. The independent installation inspector final inspection and inspection report of the stainless-steel liner plate in A-B002 pump pit and A-B003 C3 vault.

2. The final Independent Installation Inspection Report, 24590-CM-FC4-W000-00001, for the lab Radioactive Liquid Waste Disposal System, i.e., the RLD-VSL-00164 tank system.

3. Resubmission of Attachment 6 addressing the remaining Ecology comments on the RLD-VSL-00164 tank system Specialized Requirements Verification Matrix, 24590-WTP-3YV-SRM-00054.

4. Resubmission of Attachment 9, Certification statement by a Washington State registered Professional Engineer, with a certification statement in accordance with Condition certification statement in accordance with Condition III.10.E.1.d of the Waste Treatment and Immobilization Plant Permit, that is signed and stamped by a Registered Professional Engineer licensed in the State of Washington.

This letter transmits the following; Attachment includes the independent installation inspection reports for Item numbers 1 and 2 above; the final Specialized Requirements Verification Matrix, which addresses Ecology's remaining comments; and resubmission of the Washington State Registered Professional Engineer statement.

Ecology had requested the U.S. Department of Energy, Office of River Protection to submit the Item 1 installation inspection reports within 60 days of completion of the work. As a result of the COVID-19 pandemic, ORP-Environmental Compliance Division informed Ecology (Suzanne Dahl) on April 10 that Item 1 reports could not be submitted within 60 days asplanned. This submittal provides information to demonstrate the Waste Treatment and Immobilization Plant Laboratory was constructed in accordance with permit condition III.10.C.2.a.

If you have any questions, please contact me, or your staff may contact Mary E. Burandt, Environmental Compliance Division, Office of River Protection, on (509) 372-8828, or Sheila Davis, Bechtel National, Inc., (509) 371-4498.

Sincerely,

Digitally signed by GLYN D. TRENCHARD
DN: c=us, o=u.s. government, ou=department of energy, ou=Energy IT Services, ou=Hanford Site, ou=People, cn=GLYN D. TRENCHARD
Date: 2020.06.16 12:43:12 -07'00'

Glyn D. Trenchard, Assistant Manager
Technical and Regulatory Support
Office of River Protection

ECD:MEB

Attachment

cc: See page 3

cc w/attach:
J. Cantu, Ecology
S. Dahl, Ecology
S. C. Davis, BNI
M. E. Jones, Ecology
Administrative Record
BNI Correspondence
Environmental Portal

cc w/o attach:
J. Bell, NPT
R. Buck, Wanapum
L. Contreras, YN
J. Decker, Ecology
R. D. Haggard, BNI
V. S. McCain, BNI
K. Niles, Oregon Energy
B. Ponte, BNI
F. Presti, BNI

Attachment
20-ECD-0027

WASTE TREATMENT AND IMMOBILIZATION PLANT LABORATORY
CERTIFICATION ACTION ITEMS

24590-CM-FC4-W000-00001-60-00004, Rev. 00A
Final Individual Inspection Report for the Stainless-Steel Liner Plate in A-B002 Pump Pit

24590-CM-FC4-W000-00001-10-00001, Rev. 00B
Partial Certification Report for LAB RLD System for Subcontract
No. 24590-CM-FC4-W000-00001

24590-WTP-3YV-SRVM-00054
Specialized Requirements Verification Matrix Lab Radioactive Liquid
Waste Disposal System (RLD) Dangerous Waste Permit

Bechtel National, Inc. Professional Engineer Statement

(105 Pages Including Cover Sheet)

ISSUED BY
RPP-WTP PDC

24590-CM-FC4-W000-00001-60-00004 Rev 00A

R11999858

MISTRAS INSPECTION **60-LAB-Liners/Coatings**

INSPECTION/VERIFICATION REPORT	Report Number: 113766-5647
Bechtel Subcontract No. 24590-CM-FC4-W000-00001	Inspection Date: 10-22-19 Report Date: 11-11-19
Inspection Code: WAC 173-303-640 (3) (c)	Building: LAB
Location: RPP/WTP, Hanford, WA	Building Grid Location: G-H/1-2.7 at the -6'elevation. Pit A-B002
Item Inspected: Stainless steel liner plate.	
Type of Activity: Visual inspection of the liner plate.	
Reference Documents: FIR: 24590-LAB-FIR-CON-19-00133 NCR: 24590-WTP-NCR-MGT-19-0863 24590-WTP-3PS-NLLR-T0002 R/1 Work-2-Go: WG-05688 Drawing 24590-LAB-P1-P23T-00002 R/2 Mistras Group, Inc. reports 113766-5415 & 113766-5582	
Vessel Number: N/A	Piping Number: N/A
Vessel Name: N/A	Piping Name: N/A
Vessel Size: N/A	Nominal Piping Diameter(s): N/A
Nominal Capacity (gal.): N/A	Approx. piping length covered by this report: N/A

DESCRIPTION OF ACTIVITY:

Mistras wrote report 113766-5415 to document installed liner plate not being protected and subject to damage from construction activities. The referenced NCR was written to address the numerous areas of damage and insufficient cleanliness found on the stainless-steel liner plate in room A-B002. The referenced FIR was issued to document the inspection after work was completed as directed by the NCR, disposition #001. Repaired areas are documented on Mistras Group, Inc. report 113766-5582 as acceptable. Verified that the liner plate has been cleaned and protected.

RESULTS/CONCLUSIONS:

It appears that all liner plate in room A-B002 has been cleaned, repaired, and is now protected. This inspector and Bechtel Piping Engineer Craig Sumner have accepted all items listed on the referenced FIR. This report closes Mistras Group, Inc. report 113766-5415.

RECOMMENDATIONS:
None.

Prepared by:
Matt Sanders,

Independent Inspector

Master Distribution Schedule for WTP Project Subcontract Management Group

SUBMITTAL TRANSMITTAL: ☐ First Submittal ☐ Re-Submittal ☐ QVRP Package ☐ RFI
☒ No Review Required ☐ No Review Required Re-Submittal ☐ Submittal Supplement

CORRESPONDENCE: ☐ With Attachment ☐ W/O Attachment (letter only) ☐ RFI
☐ Fax as Original (Letter Only) ☐ Fax as Original (With Attachment)

☐ Pre-Award/Award Package ☐ Executed Change Order Package
☐ Executed Amendment Package ☐ Back Charge ☐ Closeout Package

Subcontract Number:	24590-CM-FC4-W000-00001
Subcontract Title:	TANK SYSTEM INSPECTION
Subcontractor Name:	MISTRAS GROUP, INC.
Subcontract Administrator:	RHONDA PECK

PDC Document Number	Rev	Document Title	Rev
24590-CM-FC4-W000-00001-60- 00004	00A	Inspection/Verification Reports: 60-LAB-Liners/Coatings	
Associated VQP# NA		Report No. 113766-5647 DATED 11/11/19	
Associated GRCN # NA			

DUE BACK TO SUBCONTRACT ADMINISTRATOR NO LATER THAN: N/A

INCOMING DISTRIBUTION

Name	MSIN/ E-mail	Original	Copy	Copy of cover sheet / transmittal only	Primary File Index	Alternate File Index	Assigned Action or Remarks
PDC		X					
Frey, Dave	E-mail		X				
Rimbey, David	E-mail		X				

OUTGOING DISTRIBUTION FOR RETURNED STATUSED STICKER SUBMITTALS

Name	MSIN/ E-mail	Original	Copy	Copy of cover sheet / transmittal only	Primary File Index	File Index Alternate	Assigned Action or Remarks
PDC		X					

Issued by
RPP-WTP PDC

WTP Supplier Document Review Coversheet

NOTE: Not withstanding any markings that may appear to the contrary, further use and disclosure of this document is authorized in accordance with the terms of the applicable subcontract / purchase order.

Is the document OUO per 24590-WTP-GPP-RASS-IP-0001 (*See form instructions)*? ☐ Yes ☑ No (*If yes, fill out the OUO marking box above.)*

Submittal No.: 24590-CM-FC4-W000-00001-10-00001 **Revision:** 00B

Comments Due: N/A

☐ **Cancelled** ☐ **Superseded**

Component Tag Numbers:
☒ None
☐ Listed Below

RE / POC: David Frey **Date:** 04/13/2020

RE Comments / Notes: N/A

Document Status: ☐ On Document ☒ Note Below

This section is only needed if document does not have a sticker. Mark the appropriate box above.

G-321-E Document Category(ies): N/A

Supplier Document Status:

☒ Status 1 - Work may proceed.

☐ Status 2 - Revise and resubmit. Work may proceed subject to resolution of indicated comments.

☐ Status 3 - Revise and resubmit. Work may not proceed.

☐ Status 4 - Review not required. Work may proceed.

Permission to proceed does not constitute approval of design details, calculations, analyses, test methods, or materials developed or selected by the supplier and does not relieve supplier from full compliance with contractual obligations.

Supersedes Document No. (when applicable)**:** **Revision:**

	Print Name	Signature	Date
Accepted by/ Responsible Engineer:	David Frey	David P Frey	04/14/2020
Supervisor:	David Stroup	David Stroup	4/14/2020
Released by (when applicable):	N/A	N/A	N/A

Design Changes Incorporated/Method: ☒ **N/A**

WTP Document Number	Design Change	Reference	WTP Document Number	Design Change	Reference
N/A	☐	☐	N/A	☐	☐
N/A	☐	☐	N/A	☐	☐

REVIEWED BY *(see instructions for mailbox addresses)*

Indicate the facility/facilities, *if applicable*: ☐ LAW ☐ BOF ☒ LAB ☐ HLW ☐ PTF **Program:** ☒ DFLAW

Group: QC ☐ Information Only
Print Name: David Frey ☒ Specialist Review
Signature: David P Frey Date: 04/14/2020
Distribution: ☒ Electronic ☐ Hard - MSIN: _____

Group: FE ☐ Information Only
Print Name: Paul Hudson ☒ Specialist Review
Signature: Paul Hudson Date: 4/14/20
Distribution: ☒ Electronic ☐ Hard - MSIN: _____

Group: ☐ Information Only
Print Name: ☐ Specialist Review
Signature: N/A Date: _____
Distribution: ☒ Electronic ☐ Hard - MSIN: _____

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24590-CM-FC4-W000-00001-10-00001 00B received 2020-04-14 R80063225

MISTRAS A World of NDT Solutions | Services Division

P: (206) 764-8123 ● F: (206) 764-8124
7820 South 210th St,. Suite 110 ● Kent, WA 98032
www.mistrasgroup.com

March 27, 2020 Letter No. 1200

Bechtel National, Inc.
2435 Stevens Center Place
Richland, WA 99354

Attn: Rhonda Peck
Subcontracts Administrator

Via e-mail: rpeck@bechtel.com

Subject: Revision 2 of Partial Certification Report for LAB RLD System

Reference: Subcontract Number 24590-CM-FC4-W000-00001

Dear Ms. Peck:

Please find attached the subject certification report that was requested by BNI. This Revision 2 contains updates to certain exceptions listed in the initial certification report of LAB RLD, which was issued on September 17, 2015. As not all issues are yet addressed for the LAB RLD system, another certification report or revision will be required to complete our responsibilities for the LAB, however this Rev 2 does consist of items needed to support LBL as requested by Paul Hudson in an e-mail on 3/19/20.

Please contact me if you have any questions.

Sincerely,

George Roni

George Roni, PE

Cc: David Frey

Attachment

MISTRAS A World of NDT Solutions Services Division

P: (206) 764-8123 ● F: (206) 764-8124
7820 South 210th St,. Suite 110 ● Kent, WA 98032
www.mistrasgroup.com

March 27, 2020

River Protection Project
Waste Treatment Project
2435 Stevens Center Place
Richland, WA 99352

Subject: Partial Certification Report, Revision 2, for LAB RLD System
For Subcontract No. 24590-CM-FC4-W000-00001

Certification (as required by Permit Condition III.10.E.1.d):

I, George Roni, have certified a portion of the installation of the LAB RLD System, that includes DWP Tanks RLD-VSL-00164, RLD-VSL-00165 and associated piping and equipment (scope of this partial certification defined in Reference 1 to this report) located at the Waste Treatment Plant in Hanford, WA owned by the U.S. Department of Energy. My duties were installation IQRPE (Independent Qualified Registered Professional Engineer) for the scope covered as required by the Dangerous Waste Regulations, namely, WAC 173-303-640(3)(c) to WAC 173-303-640-(3)(f). The requirements listed in Permit Condition III.10.E.3.g also were considered and evaluated in the certification of the installed equipment.

Note there are some unresolved construction items listed below in Table 1 that to date are being excluded from certification at this time, for various reasons, that will need to be addressed prior to complete certification of the LAB RLD system. Revision 1 contains updates to Table 1 that have recently been addressed, specifically Items No. 1, 3, 4, 5, and 6 have been now been satisfactorily accounted for and are now certified construction.

Revision 2 of the subject certification report contains updates to Table 1 regarding item 1, which was edited for accuracy and item 15 that is addressed in this revision and these two (2) items are hereby certified. Also certified in Revision 2 of this report, is the secondary containment liner plate in the C3 Pump Pit (Room A-B002) and the C3/RLD-VSL-00164 Pit (Room A-B003) as the fabrication, testing and quality documentation of these areas is complete and in compliance with the regulations. For clarification, this partial certification report does not include the certification of other liner plate secondary containment areas such as C5 areas.

The initial Partial Certification Report for LAB RLD was issued by Mistras on September 17, 2015.

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

George Roni, PE

Table 1- Unresolved Construction Items (Exceptions)

Item No.	Description	Reference Document or Teamworks Tag No.	Notes	Acceptance Date
1	Vessel: RLD-VSL-0164 manhole lid on top head not yet welded in place.		Incomplete construction noted on 9/17/15. Reviewed 24590-LAB-FWCL-CON-20-00001 on 3/17/20. Reviewed 24590-LAB-FIR-CON-20-00009 on 3/26/20 which indicates that manhole changed to slip–on flange with bolted on blind flange.	Verified acceptable on 3/26/20 by IQRPE.
2	Vessel: RLD-VSL-0165 manhole lid on top head not yet welded in place.		Incomplete construction	
3	No pressure test done yet for the piping spool listed to the right. This piping is associated with a sink and hood, and the hood has not been procured to date.	LAB-RLD-WU22067001-A	On hold, see 24590-WTP-FC-P-12-0258 noted on 9/17/20. Reviewed 24590-LAB-PPTR-CON-19-0008 on 3/17/20	Verified acceptable on 3/17/20 by IQRPE.
4	No pressure test done yet for the piping spool listed to the right. This piping is associated with a sink and hood, and the hood has not been procured to date.	LAB-RLD-WU22068001-A	On hold, see 24590-WTP-FC-P-12-0258 noted on 9/17/20. Reviewed 24590-LAB-PPTR-CON-19-0008 on 3/17/20	Verified acceptable on 3/17/20 by IQRPE.
5	No pressure test done yet for the piping spool listed to the right. This piping is associated with a sink and hood, and the hood has not been procured to date.	LAB-RLD-WU02279007	On hold, see WG-14729 noted on 9/17/15. Reviewed 24590-LAB-PPTR-CON-05-0024, 24590-LAB-PPTR-CON-05-0054, and 24590-LAB-PPTR-CON-CON-12-0072 on 3/18/20	Verified acceptable on 3/18/20 by IQRPE
6	No pressure test done yet for the piping spool listed to the right. This piping is associated with a sink and hood, and the hood has not been procured to date.	LAB-RLD-WU02279008	On hold, see WG-14729 noted on 9/17/15. Reviewed 24590-LAB-PPTR-CON-05-0024, 24590-LAB-PPTR-CON-05-0054, and 24590-LAB-PPTR-CON-CON-12-0072 on 3/18/20	Verified acceptable on 3/18/20 by IQRPE
7	No pressure test done yet for the piping spool listed to the right.	LAB-RLD-ZN03448003-A	Reference WG-02995/need installation of LIH-GB-00006 to complete final tie-in of piping	

Table 1- Unresolved Construction Items (Exceptions) Continued

Item No.	Description	Reference Document or Teamworks Tag No.	Notes	Acceptance Date
8	No pressure test done yet for the piping spool listed to the right.	LAB-RLD-ZN03448053-A	Reference WG-02995/need installation of LIH-GB-00006 to complete final tie-in of piping	
9	No pressure test done yet for the piping spool listed to the right.	LAB-RLD-ZN03448053-B	Reference WG-02995/need installation of LIH-GB-00006 to complete final tie-in of piping	
10	No pressure test done yet for the piping spool listed to the right.	LAB-RLD-ZN03448053-C	Reference WG-02995/need installation of LIH-GB-00006 to complete final tie-in of piping	
11	No pressure test done yet for the piping spool listed to the right.	LAB-RLD-ZN03449003-A	Reference WG-02998/need installation of LIH-GB-00005 to complete final tie-in of piping	
12	No pressure test done yet for the piping spool listed to the right.	LAB-RLD-ZN03449053-A	Reference WG-02998/need installation of LIH-GB-00005 to complete final tie-in of piping	
13	No pressure test done yet for the piping spool listed to the right.	LAB-RLD-ZN03449053-B	Reference WG-02998/need installation of LIH-GB-00005 to complete final tie-in of piping	
14	No pressure test done yet for the piping spool listed to the right.	LAB-RLD-ZN03449053-C	Reference WG-02998/need installation of LIH-GB-00005 to complete final tie-in of piping	
15	Some welding done after pressure test for spool listed to the right.	LAB-RLD-GR00045001-A; See 24590-LAB-PPTR-CON-04-0015 & 24590-LAB-FWCL-CON-12-00756	Another pressure test is required noted on 9/17/20. Reviewed 24590-WTP-3PN-PS02-00131 on 3/26/20 which eliminates requirement for pressure testing open ended piping.	Verified acceptable on 3/26/20 by IQRPE

LIST OF ATTACHEMNTS:

ATTACHMENT A
1st 9 pages of Memorandum CCN 274177, Tables of the P&ID and DWP Line Numbers

ATTACHMENT B
Tables of Teamworks Tag No's and PPTR Verification for the scoped piping subsystems RLD-ZN, RLD-WU, and RLD-GR.

ATTACHMENT C
Tank Installation Report for RLD-VSL-00164

ATTACHMENT D
Tank Installation Report for RLD-VSL-00165

References: 1) CCN: 274177, Memorandum Request from BNI for Partial Certification of LAB-RLD System
2) 24590-WTP-GPP-CON-1602, System and Area Completion and Turnover
3) WAC 173-303-640, Dangerous Waste Regulations
4) Third Party Independent Inspection Service, Tank Installation Inspection Plan, Revision 6
5) Applicable Sections of the Dangerous Waste Permit, including: III.10.E.1.d, III.10.E.3, III.10.G.1.d, III.10.G.3, III.10.H.1.a.iii, III.10.H.1.a.iv, III.10.J.1.a.iii, and III.10.J.1.a.iv.

ATTACHMENT A
1st 9 pages of Memorandum CCN 274177, Tables of the P&ID and DWP Line Numbers

R11685708

ISSUED BY
RPP-WTP PDC

Memorandum

To:	Francisco Morales	Date:	November 5, 2014
From:	Paul Hudson	CCN:	274177
Phone:	509 373-8950		
Subject:	**EARLY REQUEST FOR DWP INSPECTION STATUS TO SUPPORT TURNOVER – PARTIAL CERTIFICATION REPORT FOR LAB RLD SYSTEM**		

Reference: 24590-WTP-GPP-CON-1602, System and Area Completion and Turnover

In the interest of maintaining historical inspection data and continuity to support future turnover of WTP systems, WTP Construction is making an early request for Mistras to provide a letter summarizing the DWP inspection status for the LAB RLD system shown on the scoped design documents listed and the list of construction records attached to this memorandum. Please confirm that the scope of work is acceptable for turnover and/or provide a list of the unresolved construction items remaining in the report.

Paul Hudson

Paul Hudson
Field Engineering Manager
WTP Construction Field Engineering

PH/wah

Attachments:
1. LAB RLD System Drawing List
2. RLD-A-01 Turnover Report – TEAMWorks (Construction Records)

Distribution

Addressee	MSIN
Hudson, P.	MS10-A
Morales, F.	MS10-A
Rimbey, D.	MS10-A

274177

Copy Coverage	MSIN
Hermanns, W.	MS10-A
PADC	MS19-A

LAB RLD SYSTEM SCOPED DRAWING LIST

System	Scoped Drawing	P&ID and DWP Line Numbers	DWP
RLD	24590-LAB-M6T-RLD-00001001	24590-LAB-M6-RLD-00001001 LAB-RLD-GR-00043-S11P LAB-RLD-GR-00044-S11P LAB-RLD-ZN-02204-S11E LAB-RLD-ZN-03429-S11E LAB-RLD-ZN-03432-S11E	Y
RLD	24590-LAB-M6T-RLD-00001002	24590-LAB-M6-RLD-00001002 LAB-RLD-GR-00040-S11P LAB-RLD-ZN-02203-S11E LAB-RLD-ZN-03383-S11E	Y
RLD	24590-LAB-M6T-RLD-00001003	24590-LAB-M6-RLD-00001003 LAB-RLD-GR-00042-S11P LAB-RLD-ZN-03382-S11E LAB-RLD-ZN-03393-S11E	Y
RLD	24590-LAB-M6T-RLD-00001004	24590-LAB-M6-RLD-00001004 LAB-RLD-GR-00041-S11P LAB-RLD-ZN-00017-S11E LAB-RLD-ZN-00020-S11E LAB-RLD-ZN-00021-S11E LAB-RLD-ZN-00022-S11E LAB-RLD-ZN-02205-S11E LAB-RLD-ZN-02206-S11E LAB-RLD-ZN-03382-S11E LAB-RLD-ZN-03383-S11E LAB-RLD-ZN-03384-S32B LAB-RLD-ZN-03389-W31A LAB-RLD-ZN-03394-S11E LAB-RLD-ZN-03395-S11E LAB-RLD-ZN-03409-S11E LAB-RLD-ZN-03410-S11E LAB-RLD-ZN-03431-S11E LAB-RLD-ZN-03445-S11E LAB-RLD-ZN-03446-S11E	Y

LAB RLD SYSTEM SCOPED DRAWING LIST

System	Scoped Drawing	P&ID and DWP Line Numbers	DWP
RLD	24590-LAB-M6T-RLD-00002001	24590-LAB-M6-RLD-00002001 LAB-RLD-GR-00045-S11P LAB-RLD-GR-00047-S11P LAB-RLD-WU-02214-S11E LAB-RLD-WU-02219-N11E LAB-RLD-WU-22122-S11E	Y
RLD	24590-LAB-M6T-RLD-00002002	24590-LAB-M6-RLD-00002002	N
RLD	24590-LAB-M6T-RLD-00002003	24590-LAB-M6-RLD-00002003 LAB-RLD-GR-00046-S11P LAB-RLD-WU-02202-S11E LAB-RLD-WU-02205-S11E LAB-RLD-WU-02207-S11E LAB-RLD-WU-02208-S11E LAB-RLD-WU-02209-S11E LAB-RLD-WU-02210-S11E LAB-RLD-WU-02215-S11E LAB-RLD-WU-02220-S11E LAB-RLD-WU-02221-S11E LAB-RLD-WU-02222-S11E LAB-RLD-WU-02226-S32B LAB-RLD-WU-02229-S11E LAB-RLD-WU-02295-S11E LAB-RLD-WU-22009-S11E LAB-RLD-WU-22134-S11E LAB-RLD-WU-22135-S11E LAB-RLD-ZN-03411-S11E	Y
RLD	24590-LAB-M6T-RLD-00003001	24590-LAB-M6-RLD-00003001	N
RLD	24590-LAB-M6T-RLD-00004001	24590-LAB-M6-RLD-00004001	N
RLD	24590-LAB-M6T-RLD-00004002	24590-LAB-M6-RLD-00004002	N

LAB RLD SYSTEM SCOPED DRAWING LIST

System	Scoped Drawing	P&ID and DWP Line Numbers	DWP
RLD	24590-LAB-M6T-RLD-00004003	24590-LAB-M6-RLD-00004003	N
RLD	24590-LAB-M6T-RLD-00005001	24590-LAB-M6-RLD-00005001	N
RLD	24590-LAB-M6T-RLD-00005002	24590-LAB-M6-RLD-00005002	N
RLD	24590-LAB-M6T-RLD-00006001	24590-LAB-M6-RLD-00006001 LAB-RLD-WU-02199-W11B LAB-RLD-WU-02227-W11B LAB-RLD-WU-02279-W11B LAB-RLD-WU-02281-W11B LAB-RLD-WU-02282-W11B LAB-RLD-WU-22060-N11E LAB-RLD-WU-22062-N11E LAB-RLD-WU-22063-N11E LAB-RLD-WU-22064-N11E LAB-RLD-WU-22065-N11E LAB-RLD-WU-22067-N11E LAB-RLD-WU-22068-N11E LAB-RLD-WU-22069-N11E LAB-RLD-WU-22070-N11E LAB-RLD-WU-22072-N11E LAB-RLD-WU-22073-N11E LAB-RLD-WU-22087-W11B LAB-RLD-WU-22090-N11E LAB-RLD-WU-22091-N11E LAB-RLD-WU-22093-N11E LAB-RLD-WU-22094-N11E LAB-RLD-WU-22095-N11E LAB-RLD-WU-22096-N11E LAB-RLD-WU-22097-N11E LAB-RLD-WU-22099-N11E LAB-RLD-WU-22100-N11E	Y

LAB RLD SYSTEM SCOPED DRAWING LIST

System	Scoped Drawing	P&ID and DWP Line Numbers	DWP
		24590-LAB-M6-RLD-00006001 (cont.) LAB-RLD-WU-22107-W11B	
RLD	24590-LAB-M6T-RLD-00006002	24590-LAB-M6-RLD-00006002 LAB-RLD-WU-02223-W11B LAB-RLD-WU-02275-W11B LAB-RLD-WU-22050-N11E LAB-RLD-WU-22051-N11E LAB-RLD-WU-22052-N11E LAB-RLD-WU-22053-N11E LAB-RLD-WU-22054-N11E LAB-RLD-WU-22056-N11E LAB-RLD-WU-22057-N11E LAB-RLD-WU-22058-N11E LAB-RLD-WU-22059-N11E	Y
RLD	24590-LAB-M6T-RLD-00006003	24590-LAB-M6-RLD-00006003 LAB-RLD-WU-02198-W11B LAB-RLD-WU-02227-W11B LAB-RLD-WU-02266-W11B LAB-RLD-WU-02267-W11B LAB-RLD-WU-02268-W11B LAB-RLD-WU-02269-W11B LAB-RLD-WU-02270-W11B LAB-RLD-WU-02271-W11B LAB-RLD-WU-22020-N11E LAB-RLD-WU-22021-N11E LAB-RLD-WU-22023-N11E LAB-RLD-WU-22025-N11E LAB-RLD-WU-22026-N11E LAB-RLD-WU-22028-N11E LAB-RLD-WU-22029-N11E LAB-RLD-WU-22030-N11E LAB-RLD-WU-22031-N11E	Y

LAB RLD SYSTEM SCOPED DRAWING LIST

System	Scoped Drawing	P&ID and DWP Line Numbers	DWP
		24590-LAB-M6-RLD-00006003 (cont.) LAB-RLD-WU-22033-N11E LAB-RLD-WU-22034-N11E LAB-RLD-WU-22035-N11E LAB-RLD-WU-22036-N11E LAB-RLD-WU-22037-N11E LAB-RLD-WU-22039-N11E LAB-RLD-WU-22040-N11E LAB-RLD-WU-22041-N11E LAB-RLD-WU-22042-N11E LAB-RLD-WU-22043-N11E LAB-RLD-WU-22045-N11E LAB-RLD-WU-22046-N11E LAB-RLD-WU-22047-N11E LAB-RLD-WU-22048-N11E	
RLD	24590-LAB-M6T-RLD-00007001	24590-LAB-M6-RLD-00007001 LAB-RLD-WU-02240-S11E LAB-RLD-WU-02241-S11E LAB-RLD-WU-02242-S11E LAB-RLD-WU-02243-S11E LAB-RLD-WU-02244-S11E LAB-RLD-WU-02245-S11E LAB-RLD-WU-02246-S11E LAB-RLD-WU-02247-S11E LAB-RLD-WU-02248-S11E LAB-RLD-WU-02249-S11E LAB-RLD-WU-02251-S11E LAB-RLD-WU-02252-S11E LAB-RLD-WU-02253-S11E LAB-RLD-WU-02254-S11E LAB-RLD-WU-02255-S11E LAB-RLD-WU-02256-S11E LAB-RLD-WU-02311-S11E	Y

LAB RLD SYSTEM SCOPED DRAWING LIST

System	Scoped Drawing	P&ID and DWP Line Numbers	DWP
		24590-LAB-M6-RLD-00007001 (cont.) LAB-RLD-WU-02312-S11E LAB-RLD-WU-02313-S11E LAB-RLD-WU-02314-S11E LAB-RLD-WU-02315-S11E LAB-RLD-WU-22014-S11E LAB-RLD-WU-22015-S11E LAB-RLD-WU-22017-S11E LAB-RLD-WU-22111-S11E LAB-RLD-WU-22112-S11E	
RLD	24590-LAB-M6T-RLD-00007002	24590-LAB-M6-RLD-00007002 LAB-RLD-WU-02213-S11E LAB-RLD-WU-02239-S11E LAB-RLD-WU-02250-S11E LAB-RLD-WU-02289-S32B LAB-RLD-WU-02300-S32B LAB-RLD-WU-02301-S32B LAB-RLD-WU-02302-S32B LAB-RLD-WU-02303-S11E LAB-RLD-WU-02305-S11E LAB-RLD-WU-02310-S11E LAB-RLD-WU-22010-W11B LAB-RLD-WU-22013-S11E LAB-RLD-WU-22113-N11E LAB-RLD-WU-22121-W11B	Y
RLD	24590-LAB-M6T-RLD-00008001	24590-LAB-M6-RLD-00008001 LAB-RLD-ZN-03397-S11E LAB-RLD-ZN-03398-S11E LAB-RLD-ZN-03399-S11E LAB-RLD-ZN-03400-S11E LAB-RLD-ZN-03403-S11E LAB-RLD-ZN-03404-S11E LAB-RLD-ZN-03405-S11E	Y

LAB RLD SYSTEM SCOPED DRAWING LIST

System	Scoped Drawing	P&ID and DWP Line Numbers	DWP
		24590-LAB-M6-RLD-00008001 (cont.) LAB-RLD-ZN-03406-S11E LAB-RLD-ZN-03407-S11E LAB-RLD-ZN-03408-S11E LAB-RLD-ZN-03436-S11E LAB-RLD-ZN-03437-S11E LAB-RLD-ZN-03438-S11E LAB-RLD-ZN-03439-S11E LAB-RLD-ZN-03440-S11E	
RLD	24590-LAB-M6T-RLD-00008002	24590-LAB-M6-RLD-00008002 LAB-RLD-WU-02224-S32B LAB-RLD-WU-02225-S11E LAB-RLD-ZN-00001-W11B LAB-RLD-ZN-03401-S11E LAB-RLD-ZN-03402-S11E LAB-RLD-ZN-03433-S32B LAB-RLD-ZN-03435-S11E LAB-RLD-ZN-03448-S32B LAB-RLD-ZN-03449-S32B LAB-RLD-ZN-03450-S32B	Y
RLD	24590-LAB-M6T-RLD-00008003	24590-LAB-M6-RLD-00008003	N

ATTACHMENT B
Tables of Teamworks Tag No's and PPTR Verification for the scoped piping subsystems RLD-ZN, RLD-WU, and RLD-GR.

LAB RLD, ZN Subsystem Teamworks TAG Number	Pressure Test Date	PPTR1	PPTR2	PPTR3	PPTR Review Completed	Notes
LAB-RLD-ZN03389001-A	3/27/2006	24590-BOF-PPTR-CON-05-0051			YES	
LAB-RLD-ZN03389001-B	3/27/2006	24590-BOF-PPTR-CON-05-0051			YES	
LAB-RLD-ZN03389051-A	3/27/2006	24590-BOF-PPTR-CON-05-0053			YES	
LAB-RLD-ZN03389051-B	3/27/2006	24590-BOF-PPTR-CON-05-0053			YES	
LAB-RLD-ZN03389051-C	3/27/2006	24590-BOF-PPTR-CON-05-0053			YES	
LAB-RLD-ZN03432001-A	11/2/2012	24590-LAB-DSTR-CON-12-0008			YES	
LAB-RLD-ZN03432001-B	11/2/2012	24590-LAB-DSTR-CON-12-0008			YES	
LAB-RLD-ZN03432001-C	11/2/2012	24590-LAB-DSTR-CON-12-0008			YES	
LAB-RLD-ZN03432001-D	11/2/2012	24590-LAB-DSTR-CON-12-0008			YES	
LAB-RLD-ZN03433010-A	11/2/2012	24590-LAB-DSTR-CON-12-0008			YES	
LAB-RLD-ZN03433010-B	11/2/2012	24590-LAB-DSTR-CON-12-0008			YES	
LAB-RLD-ZN03450003-A	11/2/2012	24590-LAB-DSTR-CON-12-0008			YES	
LAB-RLD-ZN03450003-B	11/2/2012	24590-LAB-DSTR-CON-12-0008			YES	
LAB-RLD-ZN00001001-A	3/27/2006	24590-LAB-PPTR-CON-05-000	24590-LAB-PPTR-CON-05-0052		YES	
LAB-RLD-ZN00001002-A	3/27/2006	24590-LAB-PPTR-CON-05-000	24590-LAB-PPTR-CON-05-0052		YES	
LAB-RLD-ZN00001003-A	3/27/2006	24590-LAB-PPTR-CON-05-000	24590-LAB-PPTR-CON-05-0011	24590-LAB-PPTR-CON-05-005	YES	
LAB-RLD-ZN00001013-A	3/27/2006	24590-LAB-PPTR-CON-05-000	24590-LAB-PPTR-CON-05-0052		YES	
LAB-RLD-ZN00001014-A	3/27/2006	24590-LAB-PPTR-CON-05-000	24590-LAB-PPTR-CON-05-0052		YES	
LAB-RLD-ZN00001015-A	3/27/2006	24590-LAB-PPTR-CON-05-000	24590-LAB-PPTR-CON-05-0052		YES	
LAB-RLD-ZN00001004-A	3/27/2006	24590-LAB-PPTR-CON-05-000	24590-LAB-PPTR-CON-05-0052		YES	
LAB-RLD-ZN00001005-A	3/27/2006	24590-LAB-PPTR-CON-05-000	24590-LAB-PPTR-CON-05-0052		YES	
LAB-RLD-ZN00001006-A	7/3/2006	24590-LAB-PPTR-CON-05-000	24590-LAB-PPTR-CON-05-0052		YES	
LAB-RLD-ZN00001016-A	3/27/2006	24590-LAB-PPTR-CON-05-000	24590-LAB-PPTR-CON-05-0052		YES	
LAB-RLD-ZN00001017-A	3/27/2006	24590-LAB-PPTR-CON-05-000	24590-LAB-PPTR-CON-05-0052		YES	
LAB-RLD-ZN00001018-A	3/27/2006	24590-LAB-PPTR-CON-05-000	24590-LAB-PPTR-CON-05-0052		YES	
LAB-RLD-ZN00001051-A	3/27/2006	24590-LAB-PPTR-CON-05-001	24590-LAB-PPTR-CON-05-0036	24590-LAB-PPTR-CON-05-005	YES	
LAB-RLD-ZN00001051-B	3/27/2006	24590-LAB-PPTR-CON-05-001	24590-LAB-PPTR-CON-05-0036	24590-LAB-PPTR-CON-05-005	YES	
LAB-RLD-ZN00001052-A	3/27/2006	24590-LAB-PPTR-CON-05-001	24590-LAB-PPTR-CON-05-0036	24590-LAB-PPTR-CON-05-005	YES	
LAB-RLD-ZN00001052-B	3/27/2006	24590-LAB-PPTR-CON-05-001	24590-LAB-PPTR-CON-05-0036	24590-LAB-PPTR-CON-05-005	YES	
LAB-RLD-ZN00001053-A	3/27/2006	24590-LAB-PPTR-CON-05-001	24590-LAB-PPTR-CON-05-0036	24590-LAB-PPTR-CON-05-005	YES	
LAB-RLD-ZN00001053-B	3/27/2006	24590-LAB-PPTR-CON-05-001	24590-LAB-PPTR-CON-05-0036	24590-LAB-PPTR-CON-05-005	YES	
LAB-RLD-ZN00001054-A	3/27/2006	24590-LAB-PPTR-CON-05-001	24590-LAB-PPTR-CON-05-0036	24590-LAB-PPTR-CON-05-005	YES	
LAB-RLD-ZN00001054-B	3/27/2006	24590-LAB-PPTR-CON-05-001	24590-LAB-PPTR-CON-05-0036	24590-LAB-PPTR-CON-05-005	YES	
LAB-RLD-ZN00001055-A	3/27/2006	24590-LAB-PPTR-CON-05-001	24590-LAB-PPTR-CON-05-0036	24590-LAB-PPTR-CON-05-005	YES	

LAB RLD, ZN Subsystem Teamworks TAG Number	Pressure Test Date	PPTR1	PPTR2	PPTR3	PPTR Review Completed	Notes
LAB-RLD-ZN00001055-B	3/27/2006	24590-LAB-PPTR-CON-05-001	24590-LAB-PPTR-CON-05-0036	24590-LAB-PPTR-CON-05-005	YES	
LAB-RLD-ZN00001056-A	7/3/2006	24590-LAB-PPTR-CON-05-001	24590-LAB-PPTR-CON-05-0036	24590-LAB-PPTR-CON-05-005	YES	
LAB-RLD-ZN00001056-B	7/3/2006	24590-LAB-PPTR-CON-05-001	24590-LAB-PPTR-CON-05-0036	24590-LAB-PPTR-CON-05-005	YES	
LAB-RLD-ZN00001063-A	3/27/2006	24590-LAB-PPTR-CON-05-001	24590-LAB-PPTR-CON-05-0036	24590-LAB-PPTR-CON-05-005	YES	
LAB-RLD-ZN00001063-B	3/27/2006	24590-LAB-PPTR-CON-05-001	24590-LAB-PPTR-CON-05-0036	24590-LAB-PPTR-CON-05-005	YES	
LAB-RLD-ZN00001064-A	3/27/2006	24590-LAB-PPTR-CON-05-001	24590-LAB-PPTR-CON-05-0036	24590-LAB-PPTR-CON-05-005	YES	
LAB-RLD-ZN00001064-B	3/27/2006	24590-LAB-PPTR-CON-05-001	24590-LAB-PPTR-CON-05-0036	24590-LAB-PPTR-CON-05-005	YES	
LAB-RLD-ZN00001065-A	3/27/2006	24590-LAB-PPTR-CON-05-001	24590-LAB-PPTR-CON-05-0036	24590-LAB-PPTR-CON-05-005	YES	
LAB-RLD-ZN00001065-B	3/27/2006	24590-LAB-PPTR-CON-05-001	24590-LAB-PPTR-CON-05-0036	24590-LAB-PPTR-CON-05-005	YES	
LAB-RLD-ZN00001066-A	3/27/2006	24590-LAB-PPTR-CON-05-001	24590-LAB-PPTR-CON-05-0036	24590-LAB-PPTR-CON-05-005	YES	
LAB-RLD-ZN00001066-B	3/27/2006	24590-LAB-PPTR-CON-05-001	24590-LAB-PPTR-CON-05-0036	24590-LAB-PPTR-CON-05-005	YES	
LAB-RLD-ZN00001067-A	3/27/2006	24590-LAB-PPTR-CON-05-001	24590-LAB-PPTR-CON-05-0036	24590-LAB-PPTR-CON-05-005	YES	
LAB-RLD-ZN00001067-B	3/27/2006	24590-LAB-PPTR-CON-05-001	24590-LAB-PPTR-CON-05-0036	24590-LAB-PPTR-CON-05-005	YES	
LAB-RLD-ZN00001068-A	3/27/2006	24590-LAB-PPTR-CON-05-001	24590-LAB-PPTR-CON-05-0036	24590-LAB-PPTR-CON-05-005	YES	
LAB-RLD-ZN00001068-B	3/27/2006	24590-LAB-PPTR-CON-05-001	24590-LAB-PPTR-CON-05-0036	24590-LAB-PPTR-CON-05-005	YES	
LAB-RLD-ZN00001007-A	3/27/2006	24590-LAB-PPTR-CON-05-002	24590-LAB-PPTR-CON-05-0052		YES	
LAB-RLD-ZN00001008-A	3/27/2006	24590-LAB-PPTR-CON-05-002	24590-LAB-PPTR-CON-05-0052		YES	
LAB-RLD-ZN00001009-A	3/27/2006	24590-LAB-PPTR-CON-05-002	24590-LAB-PPTR-CON-05-0052		YES	
LAB-RLD-ZN00001010-A	3/27/2006	24590-LAB-PPTR-CON-05-002	24590-LAB-PPTR-CON-05-0052		YES	
LAB-RLD-ZN00001019-A	3/27/2006	24590-LAB-PPTR-CON-05-002	24590-LAB-PPTR-CON-05-0052		YES	
LAB-RLD-ZN00001020-A	3/27/2006	24590-LAB-PPTR-CON-05-002	24590-LAB-PPTR-CON-05-0052		YES	
LAB-RLD-ZN00001021-A	3/27/2006	24590-LAB-PPTR-CON-05-002	24590-LAB-PPTR-CON-05-0052		YES	
LAB-RLD-ZN00001022-A	3/27/2006	24590-LAB-PPTR-CON-05-002	24590-LAB-PPTR-CON-05-0052		YES	
LAB-RLD-ZN03433004-A	3/27/2006	24590-LAB-PPTR-CON-05-002	24590-LAB-PPTR-CON-05-0023	24590-LAB-PPTR-CON-05-004	YES	
LAB-RLD-ZN03433005-A	3/27/2006	24590-LAB-PPTR-CON-05-002	24590-LAB-PPTR-CON-05-0038		YES	
LAB-RLD-ZN03433006-A	3/27/2006	24590-LAB-PPTR-CON-05-002	24590-LAB-PPTR-CON-05-0038		YES	
LAB-RLD-ZN03433007-A	3/27/2006	24590-LAB-PPTR-CON-05-002	24590-LAB-PPTR-CON-05-0038		YES	
LAB-RLD-ZN03450002-A	3/27/2006	24590-LAB-PPTR-CON-05-002	24590-LAB-PPTR-CON-05-0038		YES	
LAB-RLD-ZN03433001-A	3/27/2006	24590-LAB-PPTR-CON-05-002	24590-LAB-PPTR-CON-05-0041		YES	
LAB-RLD-ZN03433002-A	3/27/2006	24590-LAB-PPTR-CON-05-002	24590-LAB-PPTR-CON-05-0041		YES	
LAB-RLD-ZN03433003-A	3/27/2006	24590-LAB-PPTR-CON-05-002	24590-LAB-PPTR-CON-05-0041		YES	
LAB-RLD-ZN03433009-A	3/27/2006	24590-LAB-PPTR-CON-05-002	24590-LAB-PPTR-CON-05-0041		YES	
LAB-RLD-ZN03433009-B	3/27/2006	24590-LAB-PPTR-CON-05-002	24590-LAB-PPTR-CON-05-0041		YES	
LAB-RLD-ZN03448002-A	3/27/2006	24590-LAB-PPTR-CON-05-002	24590-LAB-PPTR-CON-05-0041		YES	
LAB-RLD-ZN03449002-A	3/27/2006	24590-LAB-PPTR-CON-05-002	24590-LAB-PPTR-CON-05-0041		YES	

LAB RLD, ZN Subsystem Teamworks TAG Number	Pressure Test Date	PPTR1	PPTR2	PPTR3	PPTR Review Completed	Notes
LAB-RLD-ZN03433006-B	7/7/2005	24590-LAB-PPTR-CON-05-0038			YES	
LAB-RLD-ZN03448001-A	3/27/2006	24590-LAB-PPTR-CON-05-0041			YES	
LAB-RLD-ZN03448003-B	7/12/2005	24590-LAB-PPTR-CON-05-0041			YES	
LAB-RLD-ZN03449001-A	3/27/2006	24590-LAB-PPTR-CON-05-0041			YES	
LAB-RLD-ZN03449003-B	7/12/2005	24590-LAB-PPTR-CON-05-0041			YES	
LAB-RLD-ZN03433051-A	3/27/2006	24590-LAB-PPTR-CON-05-004	24590-LAB-PPTR-CON-05-0047		YES	
LAB-RLD-ZN03433051-B	3/27/2006	24590-LAB-PPTR-CON-05-004	24590-LAB-PPTR-CON-05-0047		YES	
LAB-RLD-ZN03433052-A	3/27/2006	24590-LAB-PPTR-CON-05-004	24590-LAB-PPTR-CON-05-0047		YES	
LAB-RLD-ZN03433052-B	3/27/2006	24590-LAB-PPTR-CON-05-004	24590-LAB-PPTR-CON-05-0047		YES	
LAB-RLD-ZN03433053-A	3/27/2006	24590-LAB-PPTR-CON-05-004	24590-LAB-PPTR-CON-05-0047		YES	
LAB-RLD-ZN03433053-B	3/27/2006	24590-LAB-PPTR-CON-05-004	24590-LAB-PPTR-CON-05-0047		YES	
LAB-RLD-ZN03433054-A	3/27/2006	24590-LAB-PPTR-CON-05-004	24590-LAB-PPTR-CON-05-0047		YES	
LAB-RLD-ZN03433059-A	3/27/2006	24590-LAB-PPTR-CON-05-004	24590-LAB-PPTR-CON-05-0047		YES	
LAB-RLD-ZN03433059-B	3/27/2006	24590-LAB-PPTR-CON-05-004	24590-LAB-PPTR-CON-05-0047		YES	
LAB-RLD-ZN03433059-C	3/27/2006	24590-LAB-PPTR-CON-05-004	24590-LAB-PPTR-CON-05-0047		YES	
LAB-RLD-ZN03433059-D	3/27/2006	24590-LAB-PPTR-CON-05-004	24590-LAB-PPTR-CON-05-0047		YES	
LAB-RLD-ZN03433060-D	3/27/2006	24590-LAB-PPTR-CON-05-004	24590-LAB-PPTR-CON-05-0047		YES	
LAB-RLD-ZN03433060-E	3/27/2006	24590-LAB-PPTR-CON-05-004	24590-LAB-PPTR-CON-05-0047		YES	
LAB-RLD-ZN03434001-A	3/27/2006	24590-LAB-PPTR-CON-05-004	24590-LAB-PPTR-CON-05-0047	24590-LAB-PPTR-CON-12-007	YES	
LAB-RLD-ZN03434002-A	3/27/2006	24590-LAB-PPTR-CON-05-004	24590-LAB-PPTR-CON-05-0047		YES	
LAB-RLD-ZN03448051-A	3/27/2006	24590-LAB-PPTR-CON-05-004	24590-LAB-PPTR-CON-05-0047		YES	
LAB-RLD-ZN03448051-B	3/27/2006	24590-LAB-PPTR-CON-05-004	24590-LAB-PPTR-CON-05-0047		YES	
LAB-RLD-ZN03448052-A	3/27/2006	24590-LAB-PPTR-CON-05-004	24590-LAB-PPTR-CON-05-0047		YES	
LAB-RLD-ZN03448052-B	3/27/2006	24590-LAB-PPTR-CON-05-004	24590-LAB-PPTR-CON-05-0047		YES	
LAB-RLD-ZN03448053-D	3/27/2006	24590-LAB-PPTR-CON-05-004	24590-LAB-PPTR-CON-05-0047		YES	
LAB-RLD-ZN03448053-E	3/27/2006	24590-LAB-PPTR-CON-05-004	24590-LAB-PPTR-CON-05-0047		YES	
LAB-RLD-ZN03449051-A	3/27/2006	24590-LAB-PPTR-CON-05-004	24590-LAB-PPTR-CON-05-0047		YES	
LAB-RLD-ZN03449051-B	3/27/2006	24590-LAB-PPTR-CON-05-004	24590-LAB-PPTR-CON-05-0047		YES	
LAB-RLD-ZN03449052-A	3/27/2006	24590-LAB-PPTR-CON-05-004	24590-LAB-PPTR-CON-05-0047		YES	
LAB-RLD-ZN03449052-B	3/27/2006	24590-LAB-PPTR-CON-05-004	24590-LAB-PPTR-CON-05-0047		YES	
LAB-RLD-ZN03449053-D	3/27/2006	24590-LAB-PPTR-CON-05-004	24590-LAB-PPTR-CON-05-0047		YES	
LAB-RLD-ZN00001011-A	3/27/2006	24590-LAB-PPTR-CON-05-0052			YES	
LAB-RLD-ZN00001012-A	3/27/2006	24590-LAB-PPTR-CON-05-0052			YES	
LAB-RLD-ZN00001012-B	8/2/2005	24590-LAB-PPTR-CON-05-0052			YES	
LAB-RLD-ZN00001057-A	7/3/2006	24590-LAB-PPTR-CON-05-0055			YES	

LAB RLD, ZN Subsystem Teamworks TAG Number	Pressure Test Date	PPTR1	PPTR2	PPTR3	PPTR Review Completed	Notes
LAB-RLD-ZN00001057-B	7/3/2006	24590-LAB-PPTR-CON-05-0055			YES	
LAB-RLD-ZN00001058-A	7/3/2006	24590-LAB-PPTR-CON-05-0055			YES	
LAB-RLD-ZN00001058-B	7/3/2006	24590-LAB-PPTR-CON-05-0055			YES	
LAB-RLD-ZN00001059-A	7/3/2006	24590-LAB-PPTR-CON-05-0055			YES	
LAB-RLD-ZN00001059-B	7/3/2006	24590-LAB-PPTR-CON-05-0055			YES	
LAB-RLD-ZN00001060-A	7/3/2006	24590-LAB-PPTR-CON-05-0055			YES	
LAB-RLD-ZN00001060-B	7/3/2006	24590-LAB-PPTR-CON-05-0055			YES	
LAB-RLD-ZN00001061-A	7/3/2006	24590-LAB-PPTR-CON-05-0055			YES	
LAB-RLD-ZN00001061-B	7/3/2006	24590-LAB-PPTR-CON-05-0055			YES	
LAB-RLD-ZN00001062-A	7/3/2006	24590-LAB-PPTR-CON-05-0055			YES	
LAB-RLD-ZN00001062-B	7/3/2006	24590-LAB-PPTR-CON-05-0055			YES	
LAB-RLD-ZN00001062-C	7/3/2006	24590-LAB-PPTR-CON-05-0055			YES	
LAB-RLD-ZN00001069-A	7/3/2006	24590-LAB-PPTR-CON-05-0055			YES	
LAB-RLD-ZN00001069-B	7/3/2006	24590-LAB-PPTR-CON-05-0055			YES	
LAB-RLD-ZN00001070-A	7/3/2006	24590-LAB-PPTR-CON-05-0055			YES	
LAB-RLD-ZN00001070-B	7/3/2006	24590-LAB-PPTR-CON-05-0055			YES	
LAB-RLD-ZN00001071-A	7/3/2006	24590-LAB-PPTR-CON-05-0055			YES	
LAB-RLD-ZN00001071-B	7/3/2006	24590-LAB-PPTR-CON-05-0055			YES	
LAB-RLD-ZN00001072-A	7/3/2006	24590-LAB-PPTR-CON-05-0055			YES	
LAB-RLD-ZN00001072-B	7/3/2006	24590-LAB-PPTR-CON-05-0055			YES	
LAB-RLD-ZN03450001-A	3/27/2006	24590-LAB-PPTR-CON-05-0063			YES	
LAB-RLD-ZN03433054-B	3/27/2006	24590-LAB-PPTR-CON-05-0064			YES	
LAB-RLD-ZN03433055-A	3/27/2006	24590-LAB-PPTR-CON-05-0064			YES	
LAB-RLD-ZN03433055-B	3/27/2006	24590-LAB-PPTR-CON-05-0064			YES	
LAB-RLD-ZN03433056-A	3/27/2006	24590-LAB-PPTR-CON-05-0064			YES	
LAB-RLD-ZN03433056-B	3/27/2006	24590-LAB-PPTR-CON-05-0064			YES	
LAB-RLD-ZN03433056-C	3/27/2006	24590-LAB-PPTR-CON-05-0064			YES	
LAB-RLD-ZN03433057-A	3/27/2006	24590-LAB-PPTR-CON-05-0064			YES	
LAB-RLD-ZN03433057-B	3/27/2006	24590-LAB-PPTR-CON-05-0064			YES	
LAB-RLD-ZN03450052-A	3/27/2006	24590-LAB-PPTR-CON-05-0064			YES	
LAB-RLD-ZN03450052-B	3/27/2006	24590-LAB-PPTR-CON-05-0064			YES	
LAB-RLD-ZN03450051-A	3/27/2006	24590-LAB-PPTR-CON-05-0065			YES	
LAB-RLD-ZN03450051-B	3/27/2006	24590-LAB-PPTR-CON-05-0065			YES	
LAB-RLD-ZN03412001-A	3/27/2006	24590-LAB-PPTR-CON-06-001	24590-LAB-PPTR-CON-05-0036	24590-LAB-PPTR-CON-06-000	YES	
LAB-RLD-ZN03412002-A	3/27/2006	24590-LAB-PPTR-CON-06-001	24590-LAB-PPTR-CON-05-0036		YES	

LAB RLD, ZN Subsystem Teamworks TAG Number	Pressure Test Date	PPTR1	PPTR2	PPTR3	PPTR Review Completed	Notes
LAB-RLD-ZN03400001-A	10/3/2006	24590-LAB-PPTR-CON-06-0015			YES	
LAB-RLD-ZN03400001-B	10/3/2006	24590-LAB-PPTR-CON-06-0015			YES	
LAB-RLD-ZN03400001-C	10/3/2006	24590-LAB-PPTR-CON-06-0015			YES	
LAB-RLD-ZN03429001-A	1/4/2012	24590-LAB-PPTR-CON-11-0022			YES	
LAB-RLD-ZN03429001-B	1/4/2012	24590-LAB-PPTR-CON-11-0022			YES	
LAB-RLD-ZN00005001-A	3/14/2012	24590-LAB-PPTR-CON-12-0003			YES	
LAB-RLD-ZN00005001-B	3/14/2012	24590-LAB-PPTR-CON-12-0003			YES	
LAB-RLD-ZN00005002-A	3/14/2012	24590-LAB-PPTR-CON-12-0003			YES	
LAB-RLD-ZN00005002-B	3/14/2012	24590-LAB-PPTR-CON-12-0003			YES	
LAB-RLD-ZN00005002-C	3/14/2012	24590-LAB-PPTR-CON-12-0003			YES	
LAB-RLD-ZN00005002-D	3/14/2012	24590-LAB-PPTR-CON-12-0003			YES	
LAB-RLD-ZN00005002-E	3/14/2012	24590-LAB-PPTR-CON-12-0003			YES	
LAB-RLD-ZN00005003-A	3/14/2012	24590-LAB-PPTR-CON-12-0003			YES	
LAB-RLD-ZN00005003-B	3/14/2012	24590-LAB-PPTR-CON-12-0003			YES	
LAB-RLD-ZN00017001-A	3/14/2012	24590-LAB-PPTR-CON-12-0003			YES	
LAB-RLD-ZN00017001-B	3/14/2012	24590-LAB-PPTR-CON-12-0003			YES	
LAB-RLD-ZN00017001-C	3/14/2012	24590-LAB-PPTR-CON-12-0003			YES	
LAB-RLD-ZN00017002-A	3/14/2012	24590-LAB-PPTR-CON-12-0003			YES	
LAB-RLD-ZN00017002-B	3/14/2012	24590-LAB-PPTR-CON-12-0003			YES	
LAB-RLD-ZN00017002-C	3/14/2012	24590-LAB-PPTR-CON-12-0003			YES	
LAB-RLD-ZN00022001-A	3/14/2012	24590-LAB-PPTR-CON-12-0003			YES	
LAB-RLD-ZN00022001-B	3/14/2012	24590-LAB-PPTR-CON-12-0003			YES	
LAB-RLD-ZN00022001-C	3/14/2012	24590-LAB-PPTR-CON-12-0003			YES	
LAB-RLD-ZN03382001-A	3/14/2012	24590-LAB-PPTR-CON-12-0003			YES	
LAB-RLD-ZN03382001-B	3/14/2012	24590-LAB-PPTR-CON-12-0003			YES	
LAB-RLD-ZN03382001-C	3/14/2012	24590-LAB-PPTR-CON-12-0003			YES	
LAB-RLD-ZN03382001-D	3/14/2012	24590-LAB-PPTR-CON-12-0003			YES	
LAB-RLD-ZN03383001-A	3/14/2012	24590-LAB-PPTR-CON-12-0003			YES	
LAB-RLD-ZN03383002-A	3/14/2012	24590-LAB-PPTR-CON-12-0003			YES	
LAB-RLD-ZN03383002-B	3/14/2012	24590-LAB-PPTR-CON-12-0003			YES	
LAB-RLD-ZN03383002-C	3/14/2012	24590-LAB-PPTR-CON-12-0003			YES	
LAB-RLD-ZN00020001-A	3/16/2012	24590-LAB-PPTR-CON-12-0004			YES	
LAB-RLD-ZN00020002-A	3/16/2012	24590-LAB-PPTR-CON-12-0004			YES	
LAB-RLD-ZN00021001-A	3/16/2012	24590-LAB-PPTR-CON-12-0004			YES	
LAB-RLD-ZN02205001-A	3/16/2012	24590-LAB-PPTR-CON-12-0004			YES	

LAB RLD, ZN Subsystem Teamworks TAG Number	Pressure Test Date	PPTR1	PPTR2	PPTR3	PPTR Review Completed	Notes
LAB-RLD-ZN02205001-B	3/16/2012	24590-LAB-PPTR-CON-12-0004			YES	
LAB-RLD-ZN02205001-C	3/16/2012	24590-LAB-PPTR-CON-12-0004			YES	
LAB-RLD-ZN02205001-D	3/16/2012	24590-LAB-PPTR-CON-12-0004			YES	
LAB-RLD-ZN02205102-A	3/16/2012	24590-LAB-PPTR-CON-12-0004			YES	
LAB-RLD-ZN02205102-B	3/16/2012	24590-LAB-PPTR-CON-12-0004			YES	
LAB-RLD-ZN02206001-A	3/16/2012	24590-LAB-PPTR-CON-12-0004			YES	
LAB-RLD-ZN02206001-B	3/16/2012	24590-LAB-PPTR-CON-12-0004			YES	
LAB-RLD-ZN02206001-C	3/16/2012	24590-LAB-PPTR-CON-12-0004			YES	
LAB-RLD-ZN02206001-D	3/16/2012	24590-LAB-PPTR-CON-12-0004			YES	
LAB-RLD-ZN02206002-A	3/16/2012	24590-LAB-PPTR-CON-12-0004			YES	
LAB-RLD-ZN02206002-B	3/16/2012	24590-LAB-PPTR-CON-12-0004			YES	
LAB-RLD-ZN03384001-A	3/16/2012	24590-LAB-PPTR-CON-12-0004			YES	
LAB-RLD-ZN03388001-A	3/16/2012	24590-LAB-PPTR-CON-12-0004			YES	
LAB-RLD-ZN03388001-B	3/16/2012	24590-LAB-PPTR-CON-12-0004			YES	
LAB-RLD-ZN03388001-C	3/16/2012	24590-LAB-PPTR-CON-12-0004			YES	
LAB-RLD-ZN03395001-A	3/16/2012	24590-LAB-PPTR-CON-12-0004			YES	
LAB-RLD-ZN03445001-A	3/16/2012	24590-LAB-PPTR-CON-12-0004			YES	
LAB-RLD-ZN03445001-B	3/16/2012	24590-LAB-PPTR-CON-12-0004			YES	
LAB-RLD-ZN03445002-A	3/16/2012	24590-LAB-PPTR-CON-12-0004			YES	
LAB-RLD-ZN03446001-A	3/16/2012	24590-LAB-PPTR-CON-12-0004			YES	
LAB-RLD-ZN03397001-A	11/20/2012	24590-LAB-PPTR-CON-12-0006			YES	
LAB-RLD-ZN03397001-B	11/20/2012	24590-LAB-PPTR-CON-12-0006			YES	
LAB-RLD-ZN03397002-A	11/20/2012	24590-LAB-PPTR-CON-12-0006			YES	
LAB-RLD-ZN03397002-B	11/20/2012	24590-LAB-PPTR-CON-12-0006			YES	
LAB-RLD-ZN03398001-A	11/20/2012	24590-LAB-PPTR-CON-12-0006			YES	
LAB-RLD-ZN03399001-A	11/20/2012	24590-LAB-PPTR-CON-12-000	24590-LAB-PPTR-CON-12-0006		YES	
LAB-RLD-ZN03400001-D	11/20/2012	24590-LAB-PPTR-CON-12-0006			YES	
LAB-RLD-ZN03400001-E	11/20/2012	24590-LAB-PPTR-CON-12-0006			YES	
LAB-RLD-ZN03400001-F	11/20/2012	24590-LAB-PPTR-CON-12-0006			YES	
LAB-RLD-ZN03401001-A	11/20/2012	24590-LAB-PPTR-CON-12-0006			YES	
LAB-RLD-ZN03401001-B	11/20/2012	24590-LAB-PPTR-CON-12-0006			YES	
LAB-RLD-ZN03402001-A	11/20/2012	24590-LAB-PPTR-CON-12-0006			YES	
LAB-RLD-ZN03402001-B	11/20/2012	24590-LAB-PPTR-CON-12-0006			YES	
LAB-RLD-ZN03411001-A	11/20/2012	24590-LAB-PPTR-CON-12-0006			YES	
LAB-RLD-ZN03439001-A	11/20/2012	24590-LAB-PPTR-CON-12-0006			YES	

LAB RLD, ZN Subsystem Teamworks TAG Number	Pressure Test Date	PPTR1	PPTR2	PPTR3	PPTR Review Completed	Notes
LAB-RLD-ZN03440001-A	11/20/2012	24590-LAB-PPTR-CON-12-0006			YES	
LAB-RLD-ZN02204001-A	5/18/2012	24590-LAB-PPTR-CON-12-0013			YES	
LAB-RLD-ZN02203001-A	5/18/2012	24590-LAB-PPTR-CON-12-0015			YES	
LAB-RLD-ZN02203001-B	5/18/2012	24590-LAB-PPTR-CON-12-0015			YES	
LAB-RLD-ZN02203001-C	5/18/2012	24590-LAB-PPTR-CON-12-0015			YES	
LAB-RLD-ZN03393001-A	5/18/2012	24590-LAB-PPTR-CON-12-0015			YES	
LAB-RLD-ZN03394001-A	5/18/2012	24590-LAB-PPTR-CON-12-0015			YES	
LAB-RLD-ZN03413001-A	8/3/2012	24590-LAB-PPTR-CON-12-0029			YES	
LAB-RLD-ZN03413001-B	8/3/2012	24590-LAB-PPTR-CON-12-0029			YES	
LAB-RLD-ZN03413001-C	8/3/2012	24590-LAB-PPTR-CON-12-0029			YES	
LAB-RLD-ZN03384051-A	10/6/2012	24590-LAB-PPTR-CON-12-0048			YES	
LAB-RLD-ZN03409001-A	10/6/2012	24590-LAB-PPTR-CON-12-0048			YES	
LAB-RLD-ZN03431001-B	10/6/2012	24590-LAB-PPTR-CON-12-0048			YES	
LAB-RLD-ZN03433060-A	11/28/2012	24590-LAB-PPTR-CON-12-0074			YES	
LAB-RLD-ZN03433060-B	11/28/2012	24590-LAB-PPTR-CON-12-0074			YES	
LAB-RLD-ZN03433060-C	11/28/2012	24590-LAB-PPTR-CON-12-0074			YES	
LAB-RLD-ZN03435001-A	11/28/2012	24590-LAB-PPTR-CON-12-0074			YES	
LAB-RLD-ZN03435001-B	11/28/2012	24590-LAB-PPTR-CON-12-0074			YES	
LAB-RLD-ZN03435001-C	11/28/2012	24590-LAB-PPTR-CON-12-0074			YES	
LAB-RLD-ZN03450053-A	11/28/2012	24590-LAB-PPTR-CON-12-0074			YES	
LAB-RLD-ZN03450053-B	11/28/2012	24590-LAB-PPTR-CON-12-0074			YES	
LAB-RLD-ZN03450053-C	11/28/2012	24590-LAB-PPTR-CON-12-0074			YES	
LAB-RLD-ZN03450053-D	11/28/2012	24590-LAB-PPTR-CON-12-0074			YES	
LAB-RLD-ZN03450053-E	11/28/2012	24590-LAB-PPTR-CON-12-0074			YES	
LAB-RLD-ZN03410001-A	12/18/2014	24590-LAB-PPTR-CON-14-0066			YES	

LAB RLD, ZN Subsystem Teamworks TAG Number	Pressure Test Date	PPTR1	PPTR2	PPTR3	PPTR Review Completed	Notes
LAB-RLD-ZN03448003-A					NO	Reference WG-02995/need installation of LIH-GB-00006 to complete final tie-in of piping
LAB-RLD-ZN03448053-A					NO	Reference WG-02995/need installation of LIH-GB-00006 to complete final tie-in of piping
LAB-RLD-ZN03448053-B					NO	Reference WG-02995/need installation of LIH-GB-00006 to complete final tie-in of piping
LAB-RLD-ZN03448053-C					NO	Reference WG-02995/need installation of LIH-GB-00006 to complete final tie-in of piping
LAB-RLD-ZN03449003-A					NO	Reference WG-02998/need installation of LIH-GB-00005 to complete final tie-in of piping
LAB-RLD-ZN03449053-A					NO	Reference WG-02998/need installation of LIH-GB-00005 to complete final tie-in of piping
LAB-RLD-ZN03449053-B					NO	Reference WG-02998/need installation of LIH-GB-00005 to complete final tie-in of piping
LAB-RLD-ZN03449053-C					NO	Reference WG-02998/need installation of LIH-GB-00005 to complete final tie-in of piping
End						

LAB RLD, WU Subsystem Teamworks TAG Number	Pressure Test Date	PPTR1	PPTR2	PPTR3	PPTR Review Completed	Notes
LAB-RLD-WU02289001-A	3/27/2006	24590-LAB-DSTR-CON-05-0020	24590-LAB-PPTR-CON-05-0031		Yes	
LAB-RLD-WU02300001-A	3/27/2006	24590-LAB-DSTR-CON-05-0020			Yes	
LAB-RLD-WU02300002-A	3/27/2006	24590-LAB-DSTR-CON-05-0020	24590-LAB-DSTR-CON-05-0024		Yes	
LAB-RLD-WU22004001-A	3/27/2006	24590-LAB-DSTR-CON-05-0020			Yes	According to M6WX line list (not DWP)
LAB-RLD-WU22005001-A	3/27/2006	24590-LAB-DSTR-CON-05-0020			Yes	According to M6WX line list (not DWP)
LAB-RLD-WU22006001-A	3/27/2006	24590-LAB-DSTR-CON-05-0020			Yes	According to M6WX line list (not DWP)
LAB-RLD-WU22007001-A	3/27/2006	24590-LAB-DSTR-CON-05-0020			Yes	According to M6WX line list (not DWP)
LAB-RLD-WU22008001-A	3/27/2006	24590-LAB-DSTR-CON-05-0020			Yes	According to M6WX line list (not DWP)
LAB-RLD-WU02300003-A	3/27/2006	24590-LAB-DSTR-CON-05-0022	24590-LAB-DSTR-CON-05-0026		Yes	
LAB-RLD-WU02300003-B	3/27/2006	24590-LAB-DSTR-CON-05-0022	24590-LAB-DSTR-CON-05-0026		Yes	
LAB-RLD-WU02300004-A	3/27/2006	24590-LAB-DSTR-CON-05-0022	24590-LAB-DSTR-CON-05-0024		Yes	
LAB-RLD-WU02300004-B	3/27/2006	24590-LAB-DSTR-CON-05-0022	24590-LAB-DSTR-CON-05-0024		Yes	
LAB-RLD-WU02259003-A	5/18/2012	24590-LAB-DSTR-CON-12-0001			Yes	According to M6WX line list (not DWP)
LAB-RLD-WU02305001-A	9/20/2012	24590-LAB-DSTR-CON-12-0007			Yes	
LAB-RLD-WU02305001-B	9/20/2012	24590-LAB-DSTR-CON-12-0007			Yes	
LAB-RLD-WU02305001-C	9/20/2012	24590-LAB-DSTR-CON-12-0007			Yes	
LAB-RLD-WU22010001-A	3/27/2006	24590-LAB-PPTR-CON-05-0001	24590-LAB-PPTR-CON-05-0028	24590-LAB-PPTR-CON-05-0045	Yes	
LAB-RLD-WU22010002-A	3/27/2006	24590-LAB-PPTR-CON-05-0001	24590-LAB-PPTR-CON-05-0009	24590-LAB-PPTR-CON-05-0028	Yes	
LAB-RLD-WU22010051-A	3/27/2006	24590-LAB-PPTR-CON-05-0002	24590-LAB-PPTR-CON-05-0056		Yes	
LAB-RLD-WU22010051-B	3/27/2006	24590-LAB-PPTR-CON-05-0002	24590-LAB-PPTR-CON-05-0056		Yes	
LAB-RLD-WU22010052-A	3/27/2006	24590-LAB-PPTR-CON-05-0002	24590-LAB-PPTR-CON-05-0056		Yes	
LAB-RLD-WU22010052-B	3/27/2006	24590-LAB-PPTR-CON-05-0002	24590-LAB-PPTR-CON-05-0056		Yes	
LAB-RLD-WU22011001-A	3/27/2006	24590-LAB-PPTR-CON-05-0002	24590-LAB-PPTR-CON-12-0057	24590-LAB-PPTR-CON-12-0057	Yes	
LAB-RLD-WU02269001-A	3/27/2006	24590-LAB-PPTR-CON-05-0006	24590-LAB-PPTR-CON-05-0032		Yes	
LAB-RLD-WU02269002-A	3/27/2006	24590-LAB-PPTR-CON-05-0006	24590-LAB-PPTR-CON-05-0032		Yes	
LAB-RLD-WU02269003-A	3/27/2006	24590-LAB-PPTR-CON-05-0006	24590-LAB-PPTR-CON-05-0032		Yes	
LAB-RLD-WU02198001-A	3/27/2006	24590-LAB-PPTR-CON-05-0007	24590-LAB-PPTR-CON-05-0032	24590-LAB-PPTR-CON-12-0070	Yes	
LAB-RLD-WU02198002-A	3/27/2006	24590-LAB-PPTR-CON-05-0007	24590-LAB-PPTR-CON-05-0032		Yes	
LAB-RLD-WU02198003-A	3/27/2006	24590-LAB-PPTR-CON-05-0007	24590-LAB-PPTR-CON-05-0032	24590-LAB-PPTR-CON-05-0060	Yes	
LAB-RLD-WU02268001-A	3/27/2006	24590-LAB-PPTR-CON-05-0007	24590-LAB-PPTR-CON-05-0032		Yes	
LAB-RLD-WU02227001-A	3/27/2006	24590-LAB-PPTR-CON-05-0008	24590-LAB-PPTR-CON-05-0054		Yes	
LAB-RLD-WU02227002-A	3/27/2006	24590-LAB-PPTR-CON-05-0008	24590-LAB-PPTR-CON-05-0054		Yes	
LAB-RLD-WU02227003-A	3/27/2006	24590-LAB-PPTR-CON-05-0008	24590-LAB-PPTR-CON-05-0054	24590-LAB-PPTR-CON-05-0060	Yes	
LAB-RLD-WU22010003-A	3/27/2006	24590-LAB-PPTR-CON-05-0009	24590-LAB-PPTR-CON-05-0028	24590-LAB-PPTR-CON-05-0045	Yes	
LAB-RLD-WU22010003-B	3/27/2006	24590-LAB-PPTR-CON-05-0009	24590-LAB-PPTR-CON-05-0028	24590-LAB-PPTR-CON-05-0045	Yes	

LAB RLD, WU Subsystem Teamworks TAG Number	Pressure Test Date	PPTR1	PPTR2	PPTR3	PPTR Review Completed	Notes
LAB-RLD-WU22010004-A	3/27/2006	24590-LAB-PPTR-CON-05-0009	24590-LAB-PPTR-CON-05-0028	24590-LAB-PPTR-CON-05-0045	Yes	
LAB-RLD-WU22010005-A	3/27/2006	24590-LAB-PPTR-CON-05-0009	24590-LAB-PPTR-CON-05-0028	24590-LAB-PPTR-CON-05-0045	Yes	
LAB-RLD-WU22010005-B	3/27/2006	24590-LAB-PPTR-CON-05-0009	24590-LAB-PPTR-CON-05-0028	24590-LAB-PPTR-CON-05-0045	Yes	
LAB-RLD-WU02198004-A	3/27/2006	24590-LAB-PPTR-CON-05-0010	24590-LAB-PPTR-CON-05-0054	24590-LAB-PPTR-CON-05-0060	Yes	
LAB-RLD-WU02198004-B	3/27/2006	24590-LAB-PPTR-CON-05-0010	24590-LAB-PPTR-CON-05-0054		Yes	
LAB-RLD-WU02198005-A	3/27/2006	24590-LAB-PPTR-CON-05-0010	24590-LAB-PPTR-CON-05-0054		Yes	
LAB-RLD-WU02300051-A	3/27/2006	24590-LAB-PPTR-CON-05-0012	24590-LAB-PPTR-CON-05-0031		Yes	
LAB-RLD-WU02300051-B	3/27/2006	24590-LAB-PPTR-CON-05-0012	24590-LAB-PPTR-CON-05-0031		Yes	
LAB-RLD-WU02300052-A	3/27/2006	24590-LAB-PPTR-CON-05-0012	24590-LAB-PPTR-CON-05-0031		Yes	
LAB-RLD-WU02199001-A	3/27/2006	24590-LAB-PPTR-CON-05-0013			Yes	
LAB-RLD-WU02199002-A	3/27/2006	24590-LAB-PPTR-CON-05-0013			Yes	
LAB-RLD-WU02199003-A	3/27/2006	24590-LAB-PPTR-CON-05-0013	24590-LAB-PPTR-CON-05-0060		Yes	
LAB-RLD-WU02275001-A	3/27/2006	24590-LAB-PPTR-CON-05-0016			Yes	
LAB-RLD-WU02275002-A	3/27/2006	24590-LAB-PPTR-CON-05-0016			Yes	
LAB-RLD-WU02275003-A	3/27/2006	24590-LAB-PPTR-CON-05-0016	24590-LAB-PPTR-CON-05-0060		Yes	
LAB-RLD-WU02227004-A	3/27/2006	24590-LAB-PPTR-CON-05-0017	24590-LAB-PPTR-CON-05-0054	24590-LAB-PPTR-CON-05-0060	Yes	
LAB-RLD-WU02227005-A	5/12/2005	24590-LAB-PPTR-CON-05-0017	24590-LAB-PPTR-CON-05-0054		Yes	
LAB-RLD-WU02199004-A	3/27/2006	24590-LAB-PPTR-CON-05-0018	24590-LAB-PPTR-CON-05-0054	24590-LAB-PPTR-CON-05-0060	Yes	
LAB-RLD-WU02199005-A	3/27/2006	24590-LAB-PPTR-CON-05-0018	24590-LAB-PPTR-CON-05-0054		Yes	
LAB-RLD-WU02199006-A	3/27/2006	24590-LAB-PPTR-CON-05-0018	24590-LAB-PPTR-CON-05-0054		Yes	
LAB-RLD-WU02199008-A	3/27/2006	24590-LAB-PPTR-CON-05-0018	24590-LAB-PPTR-CON-05-0054		Yes	
LAB-RLD-WU02275004-A	3/27/2006	24590-LAB-PPTR-CON-05-0019	24590-LAB-PPTR-CON-05-0054	24590-LAB-PPTR-CON-05-0060	Yes	
LAB-RLD-WU02275005-A	3/27/2006	24590-LAB-PPTR-CON-05-0019	24590-LAB-PPTR-CON-05-0054		Yes	
LAB-RLD-WU02275006-A	3/27/2006	24590-LAB-PPTR-CON-05-0019	24590-LAB-PPTR-CON-05-0054		Yes	
LAB-RLD-WU02275007-A	3/27/2006	24590-LAB-PPTR-CON-05-0019	24590-LAB-PPTR-CON-05-0054		Yes	
LAB-RLD-WU02275008-A	3/27/2006	24590-LAB-PPTR-CON-05-0019	24590-LAB-PPTR-CON-05-0054		Yes	
LAB-RLD-WU02275009-A	3/27/2006	24590-LAB-PPTR-CON-05-0019	24590-LAB-PPTR-CON-05-0054		Yes	
LAB-RLD-WU02270004-A	3/27/2006	24590-LAB-PPTR-CON-05-0022	24590-LAB-PPTR-CON-05-0054		Yes	
LAB-RLD-WU02270004-B	3/27/2006	24590-LAB-PPTR-CON-05-0022	24590-LAB-PPTR-CON-05-0054		Yes	
LAB-RLD-WU02270005-A	3/27/2006	24590-LAB-PPTR-CON-05-0022	24590-LAB-PPTR-CON-05-0054		Yes	
LAB-RLD-WU02270006-A	3/27/2006	24590-LAB-PPTR-CON-05-0022	24590-LAB-PPTR-CON-05-0054		Yes	
LAB-RLD-WU02271001-A	3/27/2006	24590-LAB-PPTR-CON-05-0022	24590-LAB-PPTR-CON-05-0054		Yes	
LAB-RLD-WU02271001-B	3/27/2006	24590-LAB-PPTR-CON-05-0022	24590-LAB-PPTR-CON-05-0054		Yes	
LAB-RLD-WU02279006-A	3/27/2006	24590-LAB-PPTR-CON-05-0024	24590-LAB-PPTR-CON-05-0054	24590-LAB-PPTR-CON-05-0060	Yes	
LAB-RLD-WU02279007-A	3/27/2006	24590-LAB-PPTR-CON-05-0024	24590-LAB-PPTR-CON-05-0054		Yes	
LAB-RLD-WU02279007-B	7/3/2006	24590-LAB-PPTR-CON-05-0024	24590-LAB-PPTR-CON-05-0054	24590-LAB-PPTR-CON-12-0072	Yes	

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LAB-RLD-WU02279008-A	7/3/2006	24590-LAB-PPTR-CON-05-0024	24590-LAB-PPTR-CON-05-0054	24590-LAB-PPTR-CON-12-0072	Yes	
LAB-RLD-WU02279008-B	7/3/2006	24590-LAB-PPTR-CON-05-0024	24590-LAB-PPTR-CON-05-0054		Yes	
LAB-RLD-WU22087001-A	3/27/2006	24590-LAB-PPTR-CON-05-0024	24590-LAB-PPTR-CON-05-0054		Yes	
LAB-RLD-WU02279001-A	7/3/2006	24590-LAB-PPTR-CON-05-0025			Yes	
LAB-RLD-WU02279002-A	3/27/2006	24590-LAB-PPTR-CON-05-0025			Yes	
LAB-RLD-WU02279003-A	3/27/2006	24590-LAB-PPTR-CON-05-0025			Yes	
LAB-RLD-WU02279004-A	3/27/2006	24590-LAB-PPTR-CON-05-0025			Yes	
LAB-RLD-WU02279005-A	3/27/2006	24590-LAB-PPTR-CON-05-0025	24590-LAB-PPTR-CON-05-0060		Yes	
LAB-RLD-WU02279005-B	3/27/2006	24590-LAB-PPTR-CON-05-0025			Yes	
LAB-RLD-WU02281001-A	3/27/2006	24590-LAB-PPTR-CON-05-0025			Yes	
LAB-RLD-WU02282001-A	3/27/2006	24590-LAB-PPTR-CON-05-0025			Yes	
LAB-RLD-WU22010006-A	7/14/2005	24590-LAB-PPTR-CON-05-0028	24590-LAB-PPTR-CON-05-0045		Yes	
LAB-RLD-WU22121001-A	3/27/2006	24590-LAB-PPTR-CON-05-0028	24590-LAB-PPTR-CON-05-0045		Yes	
LAB-RLD-WU02250001-A	3/27/2006	24590-LAB-PPTR-CON-05-0031			Yes	
LAB-RLD-WU02289051-A	3/27/2006	24590-LAB-PPTR-CON-05-0031			Yes	
LAB-RLD-WU02289051-B	3/27/2006	24590-LAB-PPTR-CON-05-0031			Yes	
LAB-RLD-WU02300052-B	3/27/2006	24590-LAB-PPTR-CON-05-0031			Yes	
LAB-RLD-WU02300053-A	3/27/2006	24590-LAB-PPTR-CON-05-0031			Yes	
LAB-RLD-WU02300053-B	3/27/2006	24590-LAB-PPTR-CON-05-0031			Yes	
LAB-RLD-WU02300053-C	3/27/2006	24590-LAB-PPTR-CON-05-0031			Yes	
LAB-RLD-WU02300053-D	3/27/2006	24590-LAB-PPTR-CON-05-0031			Yes	
LAB-RLD-WU02300054-A	3/27/2006	24590-LAB-PPTR-CON-05-0031			Yes	
LAB-RLD-WU02300054-B	3/27/2006	24590-LAB-PPTR-CON-05-0031			Yes	
LAB-RLD-WU02300054-C	3/27/2006	24590-LAB-PPTR-CON-05-0031			Yes	
LAB-RLD-WU02306001-A	3/27/2006	24590-LAB-PPTR-CON-05-0031	24590-LAB-PPTR-CON-12-0042		Yes	
LAB-RLD-WU02306001-B	3/27/2006	24590-LAB-PPTR-CON-05-0031	24590-LAB-PPTR-CON-12-0042		Yes	
LAB-RLD-WU02268001-B	3/27/2006	24590-LAB-PPTR-CON-05-0032			Yes	
LAB-RLD-WU02270001-A	3/27/2006	24590-LAB-PPTR-CON-05-0032			Yes	
LAB-RLD-WU02270001-B	3/27/2006	24590-LAB-PPTR-CON-05-0032			Yes	
LAB-RLD-WU02270002-A	3/27/2006	24590-LAB-PPTR-CON-05-0032			Yes	
LAB-RLD-WU02270002-B	3/27/2006	24590-LAB-PPTR-CON-05-0032			Yes	
LAB-RLD-WU02270003-A	3/27/2006	24590-LAB-PPTR-CON-05-0032			Yes	
LAB-RLD-WU02301003-A	6/8/2006	24590-LAB-PPTR-CON-05-0034	24590-LAB-PPTR-CON-05-0051	24590-LAB-PPTR-CON-05-0082	Yes	
LAB-RLD-WU02301004-A	6/8/2006	24590-LAB-PPTR-CON-05-0034	24590-LAB-PPTR-CON-05-0051	24590-LAB-PPTR-CON-05-0083	Yes	
LAB-RLD-WU02301004-B	3/27/2006	24590-LAB-PPTR-CON-05-0034	24590-LAB-PPTR-CON-05-0051		Yes	
LAB-RLD-WU02301051-A	3/27/2006	24590-LAB-PPTR-CON-05-0035	24590-LAB-PPTR-CON-05-0053		Yes	

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LAB-RLD-WU02301051-B	3/27/2006	24590-LAB-PPTR-CON-05-0035	24590-LAB-PPTR-CON-05-0053		Yes	
LAB-RLD-WU02301051-C	3/27/2006	24590-LAB-PPTR-CON-05-0035	24590-LAB-PPTR-CON-05-0053		Yes	
LAB-RLD-WU02301051-D	3/27/2006	24590-LAB-PPTR-CON-05-0035	24590-LAB-PPTR-CON-05-0053		Yes	
LAB-RLD-WU02301052-A	3/27/2006	24590-LAB-PPTR-CON-05-0035	24590-LAB-PPTR-CON-05-0053		Yes	
LAB-RLD-WU02301052-C	3/27/2006	24590-LAB-PPTR-CON-05-0035			Yes	
LAB-RLD-WU02301052-D	3/27/2006	24590-LAB-PPTR-CON-05-0035			Yes	
LAB-RLD-WU02267001-A	3/27/2006	24590-LAB-PPTR-CON-05-0042	24590-LAB-PPTR-CON-05-0032		Yes	
LAB-RLD-WU02267001-B	3/27/2006	24590-LAB-PPTR-CON-05-0042	24590-LAB-PPTR-CON-05-0032		Yes	
LAB-RLD-WU02301001-A	3/27/2006	24590-LAB-PPTR-CON-05-0051	24590-LAB-DSTR-CON-05-0025		Yes	
LAB-RLD-WU02301001-B	3/27/2006	24590-LAB-PPTR-CON-05-0051	24590-LAB-DSTR-CON-05-0025		Yes	
LAB-RLD-WU02301002-A	3/27/2006	24590-LAB-PPTR-CON-05-0051	24590-LAB-DSTR-CON-05-0025		Yes	
LAB-RLD-WU02301002-B	3/27/2006	24590-LAB-PPTR-CON-05-0051	24590-LAB-DSTR-CON-05-0025		Yes	
LAB-RLD-WU02301005-A	7/26/2005	24590-LAB-PPTR-CON-05-0051	24590-LAB-PPTR-CON-05-0083		Yes	
LAB-RLD-WU02301052-B	3/27/2006	24590-LAB-PPTR-CON-05-0053			Yes	
LAB-RLD-WU02301053-A	3/27/2006	24590-LAB-PPTR-CON-05-0053			Yes	
LAB-RLD-WU02301053-B	3/27/2006	24590-LAB-PPTR-CON-05-0053			Yes	
LAB-RLD-WU02301054-A	3/27/2006	24590-LAB-PPTR-CON-05-0053			Yes	
LAB-RLD-WU02301054-B	3/27/2006	24590-LAB-PPTR-CON-05-0053			Yes	
LAB-RLD-WU02301054-C	3/27/2006	24590-LAB-PPTR-CON-05-0053			Yes	
LAB-RLD-WU02301055-A	3/27/2006	24590-LAB-PPTR-CON-05-0053			Yes	
LAB-RLD-WU02301055-B	3/27/2006	24590-LAB-PPTR-CON-05-0053			Yes	
LAB-RLD-WU02199007-A	3/27/2006	24590-LAB-PPTR-CON-05-0054			Yes	
LAB-RLD-WU02223001-A	3/27/2006	24590-LAB-PPTR-CON-05-0054			Yes	
LAB-RLD-WU02223002-A	7/3/2006	24590-LAB-PPTR-CON-05-0054	24590-LAB-PPTR-CON-12-0073		Yes	
LAB-RLD-WU02266001-A	3/27/2006	24590-LAB-PPTR-CON-05-0054			Yes	
LAB-RLD-WU22107001-A	3/27/2006	24590-LAB-PPTR-CON-05-0054			Yes	
LAB-RLD-WU22010053-A	3/27/2006	24590-LAB-PPTR-CON-05-0056			Yes	
LAB-RLD-WU22010053-B	3/27/2006	24590-LAB-PPTR-CON-05-0056			Yes	
LAB-RLD-WU22010053-C	3/27/2006	24590-LAB-PPTR-CON-05-0056			Yes	
LAB-RLD-WU22010053-D	3/27/2006	24590-LAB-PPTR-CON-05-0056			Yes	
LAB-RLD-WU22010054-A	3/27/2006	24590-LAB-PPTR-CON-05-0056			Yes	
LAB-RLD-WU22010055-A	3/27/2006	24590-LAB-PPTR-CON-05-0056			Yes	
LAB-RLD-WU22010055-B	3/27/2006	24590-LAB-PPTR-CON-05-0056			Yes	
LAB-RLD-WU22010055-C	3/27/2006	24590-LAB-PPTR-CON-05-0056			Yes	
LAB-RLD-WU22010055-D	3/27/2006	24590-LAB-PPTR-CON-05-0056			Yes	
LAB-RLD-WU22010055-E	3/27/2006	24590-LAB-PPTR-CON-05-0056			Yes	

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LAB-RLD-WU22010056-A	3/27/2006	24590-LAB-PPTR-CON-05-0056			Yes	
LAB-RLD-WU22121051-A	3/27/2006	24590-LAB-PPTR-CON-05-0056			Yes	
LAB-RLD-WU22121051-B	3/27/2006	24590-LAB-PPTR-CON-05-0056			Yes	
LAB-RLD-WU02302001-A	6/8/2006	24590-LAB-PPTR-CON-05-0057	24590-LAB-PPTR-CON-05-0086		Yes	
LAB-RLD-WU02302001-B	3/27/2006	24590-LAB-PPTR-CON-05-0057			Yes	
LAB-RLD-WU02302002-A	9/19/2005	24590-LAB-PPTR-CON-05-0057	24590-LAB-PPTR-CON-05-0086		Yes	
LAB-RLD-WU02302051-A	7/12/2006	24590-LAB-PPTR-CON-05-0058			Yes	
LAB-RLD-WU02302051-B	7/12/2006	24590-LAB-PPTR-CON-05-0058			Yes	
LAB-RLD-WU02302051-C	7/12/2006	24590-LAB-PPTR-CON-05-0058			Yes	
LAB-RLD-WU02302052-A	7/12/2006	24590-LAB-PPTR-CON-05-0058			Yes	
LAB-RLD-WU02302052-B	7/12/2006	24590-LAB-PPTR-CON-05-0058			Yes	
LAB-RLD-WU02198051-A	3/27/2006	24590-LAB-PPTR-CON-05-0061			Yes	
LAB-RLD-WU02198051-B	7/3/2006	24590-LAB-PPTR-CON-05-0061			Yes	
LAB-RLD-WU02198052-A	3/27/2006	24590-LAB-PPTR-CON-05-0061			Yes	
LAB-RLD-WU02198052-B	3/27/2006	24590-LAB-PPTR-CON-05-0061			Yes	
LAB-RLD-WU02198053-A	3/27/2006	24590-LAB-PPTR-CON-05-0061			Yes	
LAB-RLD-WU02198053-B	3/27/2006	24590-LAB-PPTR-CON-05-0061			Yes	
LAB-RLD-WU02198054-A	3/27/2006	24590-LAB-PPTR-CON-05-0061			Yes	
LAB-RLD-WU02198054-B	3/27/2006	24590-LAB-PPTR-CON-05-0061			Yes	
LAB-RLD-WU02198054-C	3/27/2006	24590-LAB-PPTR-CON-05-0061			Yes	
LAB-RLD-WU02198054-D	3/27/2006	24590-LAB-PPTR-CON-05-0061			Yes	
LAB-RLD-WU02198055-A	3/27/2006	24590-LAB-PPTR-CON-05-0061			Yes	
LAB-RLD-WU02198055-B	3/27/2006	24590-LAB-PPTR-CON-05-0061			Yes	
LAB-RLD-WU02199051-A	3/27/2006	24590-LAB-PPTR-CON-05-0061			Yes	
LAB-RLD-WU02199051-B	3/27/2006	24590-LAB-PPTR-CON-05-0061			Yes	
LAB-RLD-WU02199052-A	3/27/2006	24590-LAB-PPTR-CON-05-0061			Yes	
LAB-RLD-WU02199052-B	3/27/2006	24590-LAB-PPTR-CON-05-0061			Yes	
LAB-RLD-WU02199053-A	3/27/2006	24590-LAB-PPTR-CON-05-0061			Yes	
LAB-RLD-WU02199053-B	3/27/2006	24590-LAB-PPTR-CON-05-0061			Yes	
LAB-RLD-WU02199054-A	3/27/2006	24590-LAB-PPTR-CON-05-0061			Yes	
LAB-RLD-WU02199054-B	3/27/2006	24590-LAB-PPTR-CON-05-0061			Yes	
LAB-RLD-WU02199055-A	3/27/2006	24590-LAB-PPTR-CON-05-0061			Yes	
LAB-RLD-WU02199055-B	3/27/2006	24590-LAB-PPTR-CON-05-0061			Yes	
LAB-RLD-WU02199056-A	3/27/2006	24590-LAB-PPTR-CON-05-0061			Yes	
LAB-RLD-WU02199056-B	3/27/2006	24590-LAB-PPTR-CON-05-0061			Yes	
LAB-RLD-WU02199057-A	3/27/2006	24590-LAB-PPTR-CON-05-0061			Yes	

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LAB-RLD-WU02199057-B	3/27/2006	24590-LAB-PPTR-CON-05-0061			Yes	
LAB-RLD-WU02199058-A	3/27/2006	24590-LAB-PPTR-CON-05-0061			Yes	
LAB-RLD-WU02199058-B	3/27/2006	24590-LAB-PPTR-CON-05-0061			Yes	
LAB-RLD-WU02223051-A	3/27/2006	24590-LAB-PPTR-CON-05-0061			Yes	
LAB-RLD-WU02223051-B	3/27/2006	24590-LAB-PPTR-CON-05-0061			Yes	
LAB-RLD-WU02223052-A	3/27/2006	24590-LAB-PPTR-CON-05-0061	24590-LAB-PPTR-CON-12-0056		Yes	
LAB-RLD-WU02223052-B	3/27/2006	24590-LAB-PPTR-CON-05-0061			Yes	
LAB-RLD-WU02227051-A	3/27/2006	24590-LAB-PPTR-CON-05-0061			Yes	
LAB-RLD-WU02227051-B	3/27/2006	24590-LAB-PPTR-CON-05-0061			Yes	
LAB-RLD-WU02227052-A	3/27/2006	24590-LAB-PPTR-CON-05-0061			Yes	
LAB-RLD-WU02227052-B	3/27/2006	24590-LAB-PPTR-CON-05-0061			Yes	
LAB-RLD-WU02227053-A	3/27/2006	24590-LAB-PPTR-CON-05-0061			Yes	
LAB-RLD-WU02227053-B	3/27/2006	24590-LAB-PPTR-CON-05-0061			Yes	
LAB-RLD-WU02227054-A	3/27/2006	24590-LAB-PPTR-CON-05-0061			Yes	
LAB-RLD-WU02227054-B	3/27/2006	24590-LAB-PPTR-CON-05-0061			Yes	
LAB-RLD-WU02227055-A	3/27/2006	24590-LAB-PPTR-CON-05-0061			Yes	
LAB-RLD-WU02262001-A	3/27/2006	24590-LAB-PPTR-CON-05-0061	24590-LAB-PPTR-CON-12-0056		Yes	According to M6WX line list (not DWP)
LAB-RLD-WU02262001-B	3/27/2006	24590-LAB-PPTR-CON-05-0061	24590-LAB-PPTR-CON-12-0056		Yes	According to M6WX line list (not DWP)
LAB-RLD-WU02264001-A	3/27/2006	24590-LAB-PPTR-CON-05-0061	24590-LAB-PPTR-CON-12-0056		Yes	According to M6WX line list (not DWP)
LAB-RLD-WU02266051-A	3/27/2006	24590-LAB-PPTR-CON-05-0061			Yes	
LAB-RLD-WU02266051-B	3/27/2006	24590-LAB-PPTR-CON-05-0061			Yes	
LAB-RLD-WU02267051-A	3/27/2006	24590-LAB-PPTR-CON-05-0061			Yes	
LAB-RLD-WU02267051-B	3/27/2006	24590-LAB-PPTR-CON-05-0061			Yes	
LAB-RLD-WU02267051-C	3/27/2006	24590-LAB-PPTR-CON-05-0061			Yes	
LAB-RLD-WU02267051-D	3/27/2006	24590-LAB-PPTR-CON-05-0061			Yes	
LAB-RLD-WU02268051-A	3/27/2006	24590-LAB-PPTR-CON-05-0061			Yes	
LAB-RLD-WU02268051-B	3/27/2006	24590-LAB-PPTR-CON-05-0061			Yes	
LAB-RLD-WU02268051-C	3/27/2006	24590-LAB-PPTR-CON-05-0061			Yes	
LAB-RLD-WU02268051-D	3/27/2006	24590-LAB-PPTR-CON-05-0061			Yes	
LAB-RLD-WU02269051-A	3/27/2006	24590-LAB-PPTR-CON-05-0061			Yes	
LAB-RLD-WU02269051-B	3/27/2006	24590-LAB-PPTR-CON-05-0061			Yes	
LAB-RLD-WU02269052-A	3/27/2006	24590-LAB-PPTR-CON-05-0061			Yes	
LAB-RLD-WU02269052-B	3/27/2006	24590-LAB-PPTR-CON-05-0061			Yes	
LAB-RLD-WU02269053-A	3/27/2006	24590-LAB-PPTR-CON-05-0061			Yes	
LAB-RLD-WU02269053-B	3/27/2006	24590-LAB-PPTR-CON-05-0061			Yes	
LAB-RLD-WU02270051-A	3/27/2006	24590-LAB-PPTR-CON-05-0061			Yes	

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LAB-RLD-WU02270051-B	3/27/2006	24590-LAB-PPTR-CON-05-0061			Yes	
LAB-RLD-WU02270051-C	3/27/2006	24590-LAB-PPTR-CON-05-0061			Yes	
LAB-RLD-WU02270051-D	3/27/2006	24590-LAB-PPTR-CON-05-0061			Yes	
LAB-RLD-WU02270052-A	3/27/2006	24590-LAB-PPTR-CON-05-0061			Yes	
LAB-RLD-WU02270052-B	3/27/2006	24590-LAB-PPTR-CON-05-0061			Yes	
LAB-RLD-WU02270052-C	3/27/2006	24590-LAB-PPTR-CON-05-0061			Yes	
LAB-RLD-WU02270052-D	3/27/2006	24590-LAB-PPTR-CON-05-0061			Yes	
LAB-RLD-WU02270053-A	3/27/2006	24590-LAB-PPTR-CON-05-0061			Yes	
LAB-RLD-WU02270053-B	3/27/2006	24590-LAB-PPTR-CON-05-0061			Yes	
LAB-RLD-WU02270054-A	3/27/2006	24590-LAB-PPTR-CON-05-0061			Yes	
LAB-RLD-WU02270054-B	3/27/2006	24590-LAB-PPTR-CON-05-0061			Yes	
LAB-RLD-WU02270054-C	3/27/2006	24590-LAB-PPTR-CON-05-0061			Yes	
LAB-RLD-WU02270054-D	3/27/2006	24590-LAB-PPTR-CON-05-0061			Yes	
LAB-RLD-WU02270055-A	3/27/2006	24590-LAB-PPTR-CON-05-0061			Yes	
LAB-RLD-WU02270055-B	3/27/2006	24590-LAB-PPTR-CON-05-0061			Yes	
LAB-RLD-WU02270056-A	3/27/2006	24590-LAB-PPTR-CON-05-0061			Yes	
LAB-RLD-WU02271051-A	3/27/2006	24590-LAB-PPTR-CON-05-0061			Yes	
LAB-RLD-WU02271051-B	3/27/2006	24590-LAB-PPTR-CON-05-0061			Yes	
LAB-RLD-WU02271051-C	3/27/2006	24590-LAB-PPTR-CON-05-0061			Yes	
LAB-RLD-WU02271051-D	3/27/2006	24590-LAB-PPTR-CON-05-0061			Yes	
LAB-RLD-WU02275051-A	3/27/2006	24590-LAB-PPTR-CON-05-0061			Yes	
LAB-RLD-WU02275051-B	3/27/2006	24590-LAB-PPTR-CON-05-0061			Yes	
LAB-RLD-WU02275052-A	3/27/2006	24590-LAB-PPTR-CON-05-0061			Yes	
LAB-RLD-WU02275052-B	3/27/2006	24590-LAB-PPTR-CON-05-0061			Yes	
LAB-RLD-WU02275053-A	3/27/2006	24590-LAB-PPTR-CON-05-0061			Yes	
LAB-RLD-WU02275053-B	3/27/2006	24590-LAB-PPTR-CON-05-0061			Yes	
LAB-RLD-WU02275054-A	3/27/2006	24590-LAB-PPTR-CON-05-0061			Yes	
LAB-RLD-WU02275054-B	3/27/2006	24590-LAB-PPTR-CON-05-0061			Yes	
LAB-RLD-WU02275055-A	3/27/2006	24590-LAB-PPTR-CON-05-0061			Yes	
LAB-RLD-WU02275055-B	3/27/2006	24590-LAB-PPTR-CON-05-0061			Yes	
LAB-RLD-WU02275056-A	3/27/2006	24590-LAB-PPTR-CON-05-0061			Yes	
LAB-RLD-WU02275056-B	3/27/2006	24590-LAB-PPTR-CON-05-0061			Yes	
LAB-RLD-WU02275057-A	3/27/2006	24590-LAB-PPTR-CON-05-0061			Yes	
LAB-RLD-WU02275057-B	3/27/2006	24590-LAB-PPTR-CON-05-0061			Yes	
LAB-RLD-WU02275058-A	3/27/2006	24590-LAB-PPTR-CON-05-0061			Yes	
LAB-RLD-WU02275058-B	3/27/2006	24590-LAB-PPTR-CON-05-0061			Yes	

LAB RLD, WU Subsystem Teamworks TAG Number	Pressure Test Date	PPTR1	PPTR2	PPTR3	PPTR Review Completed	Notes
LAB-RLD-WU02275059-A	3/27/2006	24590-LAB-PPTR-CON-05-0061			Yes	
LAB-RLD-WU02275059-B	3/27/2006	24590-LAB-PPTR-CON-05-0061			Yes	
LAB-RLD-WU02276001-A	3/27/2006	24590-LAB-PPTR-CON-05-0061	24590-LAB-PPTR-CON-12-0056		Yes	
LAB-RLD-WU02277001-A	3/27/2006	24590-LAB-PPTR-CON-05-0061	24590-LAB-PPTR-CON-12-0056		Yes	According to M6WX line list (not DWP)
LAB-RLD-WU02279051-A	3/27/2006	24590-LAB-PPTR-CON-05-0061			Yes	
LAB-RLD-WU02279051-B	3/27/2006	24590-LAB-PPTR-CON-05-0061			Yes	
LAB-RLD-WU02279052-A	3/27/2006	24590-LAB-PPTR-CON-05-0061			Yes	
LAB-RLD-WU02279052-B	3/27/2006	24590-LAB-PPTR-CON-05-0061			Yes	
LAB-RLD-WU02279053-A	3/27/2006	24590-LAB-PPTR-CON-05-0061			Yes	
LAB-RLD-WU02279053-B	3/27/2006	24590-LAB-PPTR-CON-05-0061			Yes	
LAB-RLD-WU02279054-A	3/27/2006	24590-LAB-PPTR-CON-05-0061			Yes	
LAB-RLD-WU02279054-B	3/27/2006	24590-LAB-PPTR-CON-05-0061			Yes	
LAB-RLD-WU02279055-A	3/27/2006	24590-LAB-PPTR-CON-05-0061			Yes	
LAB-RLD-WU02279055-B	3/27/2006	24590-LAB-PPTR-CON-05-0061			Yes	
LAB-RLD-WU02279055-C	3/27/2006	24590-LAB-PPTR-CON-05-0061			Yes	
LAB-RLD-WU02279055-D	3/27/2006	24590-LAB-PPTR-CON-05-0061			Yes	
LAB-RLD-WU02279056-A	3/27/2006	24590-LAB-PPTR-CON-05-0061			Yes	
LAB-RLD-WU02279056-B	3/27/2006	24590-LAB-PPTR-CON-05-0061			Yes	
LAB-RLD-WU02279057-A	3/27/2006	24590-LAB-PPTR-CON-05-0061			Yes	
LAB-RLD-WU02279057-B	3/27/2006	24590-LAB-PPTR-CON-05-0061			Yes	
LAB-RLD-WU02279057-C	3/27/2006	24590-LAB-PPTR-CON-05-0061			Yes	
LAB-RLD-WU02279057-D	3/27/2006	24590-LAB-PPTR-CON-05-0061			Yes	
LAB-RLD-WU02281051-A	3/27/2006	24590-LAB-PPTR-CON-05-0061			Yes	
LAB-RLD-WU02281051-B	3/27/2006	24590-LAB-PPTR-CON-05-0061			Yes	
LAB-RLD-WU02282051-A	3/27/2006	24590-LAB-PPTR-CON-05-0061			Yes	
LAB-RLD-WU02282051-B	3/27/2006	24590-LAB-PPTR-CON-05-0061			Yes	
LAB-RLD-WU02291001-A	3/27/2006	24590-LAB-PPTR-CON-05-0061	24590-LAB-PPTR-CON-12-0056		Yes	
LAB-RLD-WU02292001-A	3/27/2006	24590-LAB-PPTR-CON-05-0061	24590-LAB-PPTR-CON-12-0056		Yes	
LAB-RLD-WU02294001-A	3/27/2006	24590-LAB-PPTR-CON-05-0061	24590-LAB-PPTR-CON-12-0056		Yes	According to M6WX line list (not DWP)
LAB-RLD-WU22087051-A	3/27/2006	24590-LAB-PPTR-CON-05-0061			Yes	
LAB-RLD-WU22087051-B	3/27/2006	24590-LAB-PPTR-CON-05-0061			Yes	
LAB-RLD-WU22107051-A	3/27/2006	24590-LAB-PPTR-CON-05-0061			Yes	
LAB-RLD-WU22107051-B	3/27/2006	24590-LAB-PPTR-CON-05-0061			Yes	
LAB-RLD-WU02226001-A	3/27/2006	24590-LAB-PPTR-CON-05-0066	24590-LAB-PPTR-CON-06-0002	24590-LAB-PPTR-CON-06-0004	Yes	
LAB-RLD-WU02226001-B	3/27/2006	24590-LAB-PPTR-CON-05-0066			Yes	
LAB-RLD-WU02226002-A	3/27/2006	24590-LAB-PPTR-CON-05-0066			Yes	

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LAB-RLD-WU02226051-A	3/27/2006	24590-LAB-PPTR-CON-05-0077	24590-LAB-PPTR-CON-05-0093	24590-LAB-PPTR-CON-06-0002	Yes	
LAB-RLD-WU02226051-B	3/27/2006	24590-LAB-PPTR-CON-05-0077	24590-LAB-PPTR-CON-05-0093		Yes	
LAB-RLD-WU02226051-C	3/27/2006	24590-LAB-PPTR-CON-05-0077	24590-LAB-PPTR-CON-05-0093		Yes	
LAB-RLD-WU02226052-A	3/27/2006	24590-LAB-PPTR-CON-05-0077	24590-LAB-PPTR-CON-05-0093		Yes	
LAB-RLD-WU02226052-B	3/27/2006	24590-LAB-PPTR-CON-05-0077	24590-LAB-PPTR-CON-05-0093		Yes	
LAB-RLD-WU02259001-A	5/18/2006	24590-LAB-PPTR-CON-05-0081			Yes	
LAB-RLD-WU02259002-A	5/18/2006	24590-LAB-PPTR-CON-05-0081			Yes	
LAB-RLD-WU22118001-A	5/18/2006	24590-LAB-PPTR-CON-05-0081			Yes	
LAB-RLD-WU22119001-A	5/18/2006	24590-LAB-PPTR-CON-05-0081			Yes	
LAB-RLD-WU02224001-A	3/27/2006	24590-LAB-PPTR-CON-05-0090	24590-LAB-PPTR-CON-06-0003		Yes	
LAB-RLD-WU02224001-B	3/27/2006	24590-LAB-PPTR-CON-05-0090			Yes	
LAB-RLD-WU02224002-A	1/26/2006	24590-LAB-PPTR-CON-05-0090			Yes	
LAB-RLD-WU02224051-A	5/24/2006	24590-LAB-PPTR-CON-06-0003			Yes	
LAB-RLD-WU02224051-B	6/29/2006	24590-LAB-PPTR-CON-06-0005			Yes	
LAB-RLD-WU02224051-C	6/29/2006	24590-LAB-PPTR-CON-06-0005			Yes	
LAB-RLD-WU02224051-D	6/29/2006	24590-LAB-PPTR-CON-06-0005			Yes	
LAB-RLD-WU02224052-A	6/29/2006	24590-LAB-PPTR-CON-06-0005			Yes	
LAB-RLD-WU22122001-A	1/5/2012	24590-LAB-PPTR-CON-11-0023			Yes	
LAB-RLD-WU22122001-B	1/5/2012	24590-LAB-PPTR-CON-11-0023			Yes	
LAB-RLD-WU02303001-A	5/11/2012	24590-LAB-PPTR-CON-12-0010			Yes	
LAB-RLD-WU02214001-A	5/18/2012	24590-LAB-PPTR-CON-12-0011			Yes	
LAB-RLD-WU02207001-A	5/18/2012	24590-LAB-PPTR-CON-12-0014			Yes	
LAB-RLD-WU02207001-B	5/18/2012	24590-LAB-PPTR-CON-12-0014			Yes	
LAB-RLD-WU02213001-A	10/4/2012	24590-LAB-PPTR-CON-12-0016			Yes	
LAB-RLD-WU02213001-B	10/4/2012	24590-LAB-PPTR-CON-12-0016			Yes	
LAB-RLD-WU22120001-A	10/4/2012	24590-LAB-PPTR-CON-12-0016			Yes	
LAB-RLD-WU22120001-B	10/4/2012	24590-LAB-PPTR-CON-12-0016			Yes	
LAB-RLD-WU02219001-A	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU02219001-B	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU02219001-C	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU22020001-A	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU22020001-B	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU22021001-A	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU22021001-B	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU22022001-A	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU22022001-B	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	

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LAB-RLD-WU22023001-A	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU22023001-B	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU22025001-A	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU22025001-B	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU22026001-A	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU22026001-B	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU22027001-A	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU22027001-B	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU22028001-A	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU22028001-B	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU22029001-A	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU22029001-B	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU22030001-A	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU22030001-B	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU22031001-A	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU22031001-B	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU22032001-A	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU22032001-B	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU22033001-A	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU22033001-B	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU22034001-A	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU22034001-B	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU22035001-A	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU22035001-B	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU22036001-A	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU22036001-B	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU22037001-A	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU22037001-B	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU22038001-A	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU22038001-B	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU22039001-A	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU22039001-B	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU22040001-A	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU22040001-B	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU22041001-A	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU22041001-B	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	

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LAB-RLD-WU22042001-A	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU22042001-B	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU22043001-A	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU22043001-B	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU22044001-A	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU22044001-B	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU22045001-A	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU22045001-B	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU22046001-A	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU22046001-B	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU22047001-A	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU22047001-B	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU22048001-A	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU22048001-B	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU22049001-A	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU22049001-B	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU22050001-A	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU22050001-B	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU22051001-A	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU22051001-B	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU22052001-A	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU22052001-B	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU22053001-A	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU22053001-B	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU22054001-A	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU22054001-B	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU22055001-A	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU22055001-B	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU22056001-A	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU22056001-B	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU22057001-A	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU22057001-B	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU22058001-A	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU22058001-B	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU22059001-A	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU22059001-B	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	

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LAB-RLD-WU22060001-A	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU22060001-B	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU22061001-A	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU22061001-B	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU22062001-A	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU22062001-B	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU22063001-A	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU22063001-B	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU22064001-A	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU22064001-B	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU22065001-A	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU22065001-B	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU22066001-A	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU22066001-B	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU22067001-B	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU22068001-B	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU22069001-A	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU22069001-B	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU22070001-A	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU22070001-B	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU22072001-A	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU22072001-B	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU22073001-A	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU22073001-B	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU22075001-A	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU22075001-B	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU22089001-A	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU22089001-B	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU22090001-B	9/14/2012	24590-LAB-PPTR-CON-12-0019	24590-LAB-PPTR-CON-12-0071		Yes	
LAB-RLD-WU22091001-A	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU22091001-B	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU22092001-A	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU22092001-B	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU22093001-A	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU22093001-B	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU22094001-A	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	

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LAB-RLD-WU22094001-B	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU22095001-A	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU22095001-B	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU22096001-A	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU22096001-B	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU22097001-A	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU22097001-B	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU22098001-A	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU22098001-B	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU22099001-A	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU22099001-B	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU22100001-A	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU22100001-B	9/14/2012	24590-LAB-PPTR-CON-12-0019			Yes	
LAB-RLD-WU02290001-A	10/26/2012	24590-LAB-PPTR-CON-12-0020			Yes	
LAB-RLD-WU22113001-A	10/26/2012	24590-LAB-PPTR-CON-12-0020			Yes	
LAB-RLD-WU22113001-B	10/26/2012	24590-LAB-PPTR-CON-12-0020			Yes	
LAB-RLD-WU22121002-A	10/26/2012	24590-LAB-PPTR-CON-12-0020			Yes	
LAB-RLD-WU22121002-B	10/26/2012	24590-LAB-PPTR-CON-12-0020			Yes	
LAB-RLD-WU02202001-A	10/13/2012	24590-LAB-PPTR-CON-12-0035			Yes	
LAB-RLD-WU02202001-B	10/13/2012	24590-LAB-PPTR-CON-12-0035			Yes	
LAB-RLD-WU02202002-A	10/13/2012	24590-LAB-PPTR-CON-12-0035			Yes	
LAB-RLD-WU02202002-B	10/13/2012	24590-LAB-PPTR-CON-12-0035			Yes	
LAB-RLD-WU02202003-A	10/13/2012	24590-LAB-PPTR-CON-12-0035			Yes	
LAB-RLD-WU02202003-B	10/13/2012	24590-LAB-PPTR-CON-12-0035			Yes	
LAB-RLD-WU02202004-A	10/13/2012	24590-LAB-PPTR-CON-12-0035			Yes	
LAB-RLD-WU02202005-A	10/13/2012	24590-LAB-PPTR-CON-12-0035			Yes	
LAB-RLD-WU02202005-B	10/13/2012	24590-LAB-PPTR-CON-12-0035			Yes	
LAB-RLD-WU02205001-A	10/13/2012	24590-LAB-PPTR-CON-12-0035			Yes	
LAB-RLD-WU02205001-B	10/13/2012	24590-LAB-PPTR-CON-12-0035			Yes	
LAB-RLD-WU02205001-C	10/13/2012	24590-LAB-PPTR-CON-12-0035			Yes	
LAB-RLD-WU02205002-A	10/13/2012	24590-LAB-PPTR-CON-12-0035			Yes	
LAB-RLD-WU02205003-A	10/13/2012	24590-LAB-PPTR-CON-12-0035			Yes	
LAB-RLD-WU02205003-B	10/13/2012	24590-LAB-PPTR-CON-12-0035			Yes	
LAB-RLD-WU02208001-A	10/13/2012	24590-LAB-PPTR-CON-12-0035			Yes	
LAB-RLD-WU02208001-B	10/13/2012	24590-LAB-PPTR-CON-12-0035			Yes	
LAB-RLD-WU02208001-C	10/13/2012	24590-LAB-PPTR-CON-12-0035			Yes	

LAB RLD, WU Subsystem Teamworks TAG Number	Pressure Test Date	PPTR1	PPTR2	PPTR3	PPTR Review Completed	Notes
LAB-RLD-WU02209001-A	10/13/2012	24590-LAB-PPTR-CON-12-0035			Yes	
LAB-RLD-WU02209001-B	10/13/2012	24590-LAB-PPTR-CON-12-0035			Yes	
LAB-RLD-WU02210001-A	10/13/2012	24590-LAB-PPTR-CON-12-0035			Yes	
LAB-RLD-WU02210001-B	10/13/2012	24590-LAB-PPTR-CON-12-0035			Yes	
LAB-RLD-WU02210002-A	10/13/2012	24590-LAB-PPTR-CON-12-0035			Yes	
LAB-RLD-WU02215001-A	10/13/2012	24590-LAB-PPTR-CON-12-0035			Yes	
LAB-RLD-WU02215002-A	10/13/2012	24590-LAB-PPTR-CON-12-0035			Yes	
LAB-RLD-WU02220001-A	10/13/2012	24590-LAB-PPTR-CON-12-0035			Yes	
LAB-RLD-WU02220001-B	10/13/2012	24590-LAB-PPTR-CON-12-0035			Yes	
LAB-RLD-WU02220001-C	10/13/2012	24590-LAB-PPTR-CON-12-0035			Yes	
LAB-RLD-WU02221001-B	10/13/2012	24590-LAB-PPTR-CON-12-0035			Yes	
LAB-RLD-WU02221001-C	10/13/2012	24590-LAB-PPTR-CON-12-0035			Yes	
LAB-RLD-WU02221001-D	10/13/2012	24590-LAB-PPTR-CON-12-0035			Yes	
LAB-RLD-WU02221001-E	10/13/2012	24590-LAB-PPTR-CON-12-0035			Yes	
LAB-RLD-WU02222001-A	10/13/2012	24590-LAB-PPTR-CON-12-0035			Yes	
LAB-RLD-WU02222001-B	10/13/2012	24590-LAB-PPTR-CON-12-0035			Yes	
LAB-RLD-WU02225001-A	10/13/2012	24590-LAB-PPTR-CON-12-0035			Yes	
LAB-RLD-WU02225001-B	10/13/2012	24590-LAB-PPTR-CON-12-0035			Yes	
LAB-RLD-WU02225001-C	10/13/2012	24590-LAB-PPTR-CON-12-0035			Yes	
LAB-RLD-WU02225001-D	10/13/2012	24590-LAB-PPTR-CON-12-0035			Yes	
LAB-RLD-WU02225001-E	10/13/2012	24590-LAB-PPTR-CON-12-0035			Yes	
LAB-RLD-WU02229001-A	10/13/2012	24590-LAB-PPTR-CON-12-0035			Yes	
LAB-RLD-WU22134001-A	10/13/2012	24590-LAB-PPTR-CON-12-0035			Yes	
LAB-RLD-WU22135001-A	10/13/2012	24590-LAB-PPTR-CON-12-0035			Yes	
LAB-RLD-WU02239001-A	9/29/2012	24590-LAB-PPTR-CON-12-0042			Yes	
LAB-RLD-WU02250001-B	9/29/2012	24590-LAB-PPTR-CON-12-0042			Yes	
LAB-RLD-WU02251001-A	9/29/2012	24590-LAB-PPTR-CON-12-0042			Yes	
LAB-RLD-WU02252001-A	9/29/2012	24590-LAB-PPTR-CON-12-0042			Yes	
LAB-RLD-WU02253001-A	9/29/2012	24590-LAB-PPTR-CON-12-0042			Yes	
LAB-RLD-WU02253001-B	9/29/2012	24590-LAB-PPTR-CON-12-0042			Yes	
LAB-RLD-WU02253002-A	9/29/2012	24590-LAB-PPTR-CON-12-0042			Yes	
LAB-RLD-WU02253002-B	9/29/2012	24590-LAB-PPTR-CON-12-0042			Yes	
LAB-RLD-WU02253002-C	9/29/2012	24590-LAB-PPTR-CON-12-0042			Yes	
LAB-RLD-WU02253003-A	9/29/2012	24590-LAB-PPTR-CON-12-0042			Yes	
LAB-RLD-WU02254001-A	9/29/2012	24590-LAB-PPTR-CON-12-0042			Yes	
LAB-RLD-WU02255001-A	9/29/2012	24590-LAB-PPTR-CON-12-0042			Yes	

LAB RLD, WU Subsystem Teamworks TAG Number	Pressure Test Date	PPTR1	PPTR2	PPTR3	PPTR Review Completed	Notes
LAB-RLD-WU02256001-A	9/29/2012	24590-LAB-PPTR-CON-12-0042			Yes	
LAB-RLD-WU02307001-A	9/29/2012	24590-LAB-PPTR-CON-12-0042	24590-LAB-PPTR-CON-12-0042		Yes	
LAB-RLD-WU02309001-A	9/29/2012	24590-LAB-PPTR-CON-12-0042	24590-LAB-PPTR-CON-05-0053		Yes	
LAB-RLD-WU02309001-B	9/29/2012	24590-LAB-PPTR-CON-12-0042			Yes	
LAB-RLD-WU02310001-A	9/29/2012	24590-LAB-PPTR-CON-12-0042			Yes	
LAB-RLD-WU02314001-A	9/29/2012	24590-LAB-PPTR-CON-12-0042			Yes	
LAB-RLD-WU02315001-A	9/29/2012	24590-LAB-PPTR-CON-12-0042			Yes	
LAB-RLD-WU22015001-A	9/29/2012	24590-LAB-PPTR-CON-12-0042			Yes	
LAB-RLD-WU22111001-A	9/29/2012	24590-LAB-PPTR-CON-12-0042			Yes	
LAB-RLD-WU02295001-A	9/22/2012	24590-LAB-PPTR-CON-12-0047			Yes	
LAB-RLD-WU22009001-A	9/22/2012	24590-LAB-PPTR-CON-12-0047			Yes	
LAB-RLD-WU02249001-A	10/20/2012	24590-LAB-PPTR-CON-12-0056			Yes	
LAB-RLD-WU02249001-B	10/20/2012	24590-LAB-PPTR-CON-12-0056			Yes	
LAB-RLD-WU02279058-A	3/27/2006	24590-LAB-PPTR-CON-12-0056			Yes	
LAB-RLD-WU02279058-B	3/27/2006	24590-LAB-PPTR-CON-12-0056			Yes	
LAB-RLD-WU02279058-C	3/27/2006	24590-LAB-PPTR-CON-12-0056			Yes	
LAB-RLD-WU02279058-D	3/27/2006	24590-LAB-PPTR-CON-12-0056			Yes	
LAB-RLD-WU22013001-A	11/20/2012	24590-LAB-PPTR-CON-12-0057	24590-LAB-PPTR-CON-12-0057		Yes	
LAB-RLD-WU22121052-A	11/20/2012	24590-LAB-PPTR-CON-12-0057			Yes	
LAB-RLD-WU22121052-B	11/20/2012	24590-LAB-PPTR-CON-12-0057			Yes	
LAB-RLD-WU22121052-C	11/20/2012	24590-LAB-PPTR-CON-12-0057			Yes	
LAB-RLD-WU22121052-D	11/20/2012	24590-LAB-PPTR-CON-12-0057			Yes	
LAB-RLD-WU22121052-E	11/20/2012	24590-LAB-PPTR-CON-12-0057			Yes	
LAB-RLD-WU22067001-A					Yes	Status updated per Revision 1 of report
LAB-RLD-WU22068001-A					Yes	Status updated per Revision 1 of report
LAB-RLD-WU02279007					Yes	Status updated per Revision 1 of report
LAB-RLD-WU02279008					Yes	Status updated per Revision 1 of report

LAB RLD, GR Subsystem Teamworks TAG Number	Pressure Test Date	PPTR1	PPTR Review Completed	Notes
LAB-RLD-GR00040001-A	11/13/2012	24590-LAB-PPTR-CON-12-0061	Yes	
LAB-RLD-GR00041001-A	11/13/2012	24590-LAB-PPTR-CON-12-0061	Yes	
LAB-RLD-GR00042001-A	11/13/2012	24590-LAB-PPTR-CON-12-0061	Yes	
LAB-RLD-GR00043001-A	11/30/2012	24590-LAB-PPTR-CON-12-0058	Yes	
LAB-RLD-GR00043001-B	11/30/2012	24590-LAB-PPTR-CON-12-0058	Yes	
LAB-RLD-GR00044001-A	3/27/2006	24590-LAB-PPTR-CON-04-0014	Yes	
LAB-RLD-GR00045001-A	3/27/2006	24590-LAB-PPTR-CON-04-0015	Yes	Welding performed after pressure test. Weld had 100% RT performed. Rev 2 report note: pressure test not required for this spool.
LAB-RLD-GR00046001-A	3/27/2006	24590-LAB-PPTR-CON-04-0016	Yes	
LAB-RLD-GR00047001-A	11/20/2014	24590-LAB-PPTR-CON-12-0059	Yes	
LAB-RLD-GR00047001-B	11/20/2014	24590-LAB-PPTR-CON-12-0059	Yes	
LAB-RLD-GR00048001-A	12/3/2012	24590-LAB-PPTR-CON-12-0060	No	According to M6WX Line list (Not DWP)
LAB-RLD-GR00048001-B	12/3/2012	24590-LAB-PPTR-CON-12-0060	No	According to M6WX Line list (Not DWP)
LAB-RLD-GR00049001-A	3/27/2006	24590-LAB-PPTR-CON-04-0017	Yes	
end				

ATTACHMENT C
Tank Installation Report for RLD-VSL-00164

DANGEROUS WASTE
TANK INSTALLATION

VISUAL INSPECTION REPORT, Rev 1

for

Tank No. RLD-VSL-00164
WTP, Hanford, Washington

by

CALIBER INSPECTION
CONAM INSPECTION
MISTRAS GROUP, INC.

TANK AND EQUIPMENT DATA SHEET

Tank No.	RLD-VSL-00164	**Building No.**	LAB
Tank Name	Laboratory Area Sink Drain Collection Vessel	**Tank System**	Radioactive Liquid Waste Disposal System (RLD)
Site	Hanford WTP	**Elevation/Floor:**	(-) 18’-7”
Location (Inside or Outside)	Inside	**Grid Location:**	G/1

TANK CHARACTERISTICS

Contents	Radioactive Liquid Drain		
Maximum capacity in gallons	2,740	**Primary Regulatory Class**	Dangerous Waste
Date Installed	9-13-2005	**Material of Construction**	UNS N08367
Style (single or double wall)	Single	**Orientation (horizontal or vertical)**	Vertical
Shell Nominal Thickness	3/8”	**Head Nominal Thickness**	15/16” top 3/8” bottom
Internal Coating	None	**External Coating**	None
Nominal Height	8.63’ from flood volume calc.	**Nominal Length**	N/A
Nominal Diameter	8.5” LAB-PER-M-02-001	**Tank Shape (cylinder?)**	Cylinder

SECONDARY CONTAINMENT

Type	Lined	**Leak Detection**	Sump
Material	Stainless Steel	**Thickness**	1/8”
Internal Coating	N/A	**External Coating**	N/A
Nominal Height	5’-1”	**Nominal Length**	27’-3”
Nominal Width	13’		

INTRODUCTION

Client: BNI **Type of Assessment:** New Tank Installation per WAC 173-303-640 (3) (c)

Date(s) Inspected:	5-20-05 to 9-15-15
Inspected by:	Dennis Kujawa , Matt Sanders, Shay Jones, George Roni
Built by:	Eaton Metal Products
Year Built:	2005
Date Tank Installed:	9/13/05
Name Plate Attached:	Yes
Foundation Type & Condition:	Concrete-New
Any Signs of Local Settlement:	None noted
Tank Repairs or Alterations:	Repair work to nozzle 10 CDR-06-0117 & SI-M-12-0010 & FWCL-12-00347. Additional repair work is to be done by CB&I 1-29-13 DJK CDR-13-0853 for CB&I grinding through top head. Report 4080 for majority of repairs—see ccn 274340 for the R1 report for AI report of repair document. As of 9/15/15, verified that all repairs are acceptable.
Installation Problems Experienced:	No installation problems noted.
Additional Remarks:	Refer to 24590-LAB-TVIR-CON-05-0002 for installation inspection records.

PRIMARY TANK:

Condition of Exterior of Tank Walls:	Acceptable.
Condition of Welds on Interior of Vessel (if applicable):	Bechtel has started a 100% visual inspection 7-30-12. It was noted by this inspector during the repair of nozzle 10 that the interior nozzle welds exhibited poor workmanship. Gouges, rough grinding, etc. Nozzle 10 repaired radiographed and rejected in one area. Repair work sched. to start 10-10-12 Nozzle 11 radiographed and was rejected for IF almost 360 degrees. Plan now is to UT all nozzles. LAW-WR4-INFO-004 CDR: 24590-WTP-CDR-CON-06-0117. As of 9/15/15, all repairs verified as acceptable.
Condition of Welds on Exterior of Vessel:	See above and report 113766-3593 Bechtel also added LAB-WR-4-INFO-04 for nozzle 3 FIR-13-00004 & 00005 for radiography. Report for this review will be added to the final report after repairs. See CDR-13-0853 for CB&I grinding through top head See CDR-14-0091 seam weld on nozzle 9. As of 9/15/15 all repairs verified as acceptable.
Condition of Internals (if applicable):	See above
Visible Distortion or damage to shell or heads?	None noted
Additional Remarks: Repair submittals by CB&I submitted Aug. 14th 2013.	Repair work was stopped on 10-23-12 for reasons not known to this inspector. 5-20-13 work has been given to CB&I. They are in the process of removing rust, arc strikes, and surface blemishes on the outside of the vessel. Work stopped again-no approval in CDR to do the work. 10-29-13 CB&I started weld removal on nozzles. 11-4-13 CB&I instructed to stop work. On 11-2-13 they ground thru to the top head at the manway location. They were instructed not to grind greater than ¾" deep. 11-12-13 CDR-13-0853 issued-conditional release to continue work with the exception of nozzle 13. As of 9/15/15, all repairs verified as acceptable.

Notes:
1) During the assessment described in this report the exterior and the interior of the tank system was visually inspected for weld breaks, cracks, punctures, coating damage, and other inadequate construction or installation procedures. The tank may have been entered (after it was verified safe for entry) to assess the condition of the coating, welds and to inspect for any deficiencies or degradation of internal parts.
2) This field report form is applicable for the installation of the tank (via crane and rigging for example) and the final visual inspection conducted after the tank has been installed. It is not intended to document the in-process inspections of the piping and pipe supports. Other reports and documentation will address the condition and acceptability of these items.
3) Be aware that the inspection of an individual tank or miscellaneous treatment unit will not comprise a tank system. Most tank systems for the WTP at Hanford will consist of several tanks and some miscellaneous treatment units, piping, ancillary equipment, etc., so this field report will one several building blocks needed for use in writing a tank system certification report.

TANK EXTERNALS:

Description of Tank Anchoring System:	Anchor bolts welded to embeds which are set in concrete.
Condition of Visible Portion of Tank Anchors:	Acceptable-DJK
Condition of Paint and/or Insulation:	N/A
Condition of Nozzles:	As of 9/15/15, verified that all repairs are acceptable.
Condition of nozzle-to-tank welds:	As of 9/15/15, verified that all repairs are acceptable.
Condition of other ancillary equipment:	5 ea. 8 inch leak detection boxes appear acceptable.
Additional Remarks:	Repair name plate was observed to be affixed. It includes the following information: Repaired by CB&I, 7-31-14, R-Stamp 242.

SECONDARY CONTAINMENT:

Description:	Stainless Steel liner in concrete pit.
Condition of concrete surfaces prior to installation of liner or coating:	New
Condition of Liner Plates or coating after installation:	Acceptable
Condition of Liner Plate Welds:	Acceptable-Report 113766-1015
Leak Test Description & Results:	CB&I performed 100% visual, vacuum box testing and 10% PT examination. In areas that could not be vacuum box tested PT examination was done.
Additional Remarks:	The liner plate installation was examined by CB&I, BNI, and Caliber inspection.

RECOMMENDATIONS / SUMMARY

This integrity assessment of the installed tank or miscellaneous treatment unit was performed in compliance with Dangerous Waste regulations issued by the Washington State Department of Ecology WAC 173-303-640 (3)(c) and Publication 94-114, Chapter 4. Also, refer to Caliber Inspection (Mistras Group, Inc.) Tank Installation Plan.

The vessel is acceptable, however the one recommendation is that as of 9/15/15, the manhole lid on the top head was not yet welded in place, so this still needs to be done. *On 3/17/20, it was verified that the manhole lid has been welded in place so this recommendation is now completed.*

ATTACHMENT D
Tank Installation Report for RLD-VSL-00165

DANGEROUS WASTE
TANK INSTALLATION

VISUAL INSPECTION REPORT

for

Tank No. RLD-VSL-00165
WTP, Hanford, Washington

by

CALIBER INSPECTION
CONAM INSPECTION
MISTRAS GROUP, INC.

TANK AND EQUIPMENT DATA SHEET

Tank No.	RLD-VSL-00165	**Building No.**	LAB
Tank Name	Hot Cell Drain Collection Vessel	**Tank System**	Radioactive Liquid Waste Disposal System (RLD)
Site	Hanford WTP	**Elevation/Floor:**	(-) 19’-2”
Location (Inside or Outside)	Inside	**Grid Location:**	H/2

TANK CHARACTERISTICS

Contents	Radioactive Liquid Drain		
Maximum capacity in gallons	6,615	**Primary Regulatory Class**	Dangerous Waste
Date Installed	9-13-2005	**Material of Construction**	UNS N08367
Style (single or double wall)	Single	**Orientation (horizontal or vertical)**	Vertical
Shell Nominal Thickness	1/2”	**Head Nominal Thickness**	5/8” (min.) Top & Bottom
Internal Coating	None	**External Coating**	None
Nominal Height	99”	**Nominal Length**	N/A
Nominal Diameter	192”	**Tank Shape (cylinder?)**	

SECONDARY CONTAINMENT

Type	Lined	**Leak Detection**	Sump
Material	Stainless Steel	**Thickness**	1/8”
Internal Coating	N/A	**External Coating**	None
Nominal Height	6’-3” +/-	**Nominal Length**	29’-0”
Nominal Width	21’-0”		

INTRODUCTION

Client: BNI **Type of Assessment:** New Tank Installation per WAC 173-303-640 (3) (c)

Date(s) Inspected:	9-2005 to 9-15-15
Inspected by:	Dennis Kujawa, Matt Sanders, Shay Jones, George Roni
Built by:	Premier Technology, Inc.
Year Built:	2005
Date Tank Installed:	9/13/05
Name Plate Attached:	Yes
Foundation Type & Condition:	Concrete-New
Any Signs of Local Settlement:	None noted
Tank Repairs or Alterations:	Required light buffing to remove arc strikes and rust in a few areas, nothing that would be considered repairs. Refer to the CDR on next page
Installation Problems Experienced:	None
Additional Remarks:	Refer to 24590-LAB-SI-M-05-0001 for installation inspection records.

PRIMARY TANK:

Condition of Exterior of Tank Walls:	See LAB-WR-4-INFO-03 Acceptable 10-3-13 See report 3958
Condition of Welds on Interior of Vessel (if applicable):	See CDR-12-0290 & LAB-WR-4-INFO-03 SEE REPORT 113766-3763 Acceptable 10-3-13 DJK report 3958 Letter of acceptance from CB&I in vessel folder.
Condition of Welds on Exterior of Vessel:	Acceptable
Condition of Internals (if applicable):	All appeared acceptable DJK 10-3-13
Visible Distortion or damage to shell or heads?	None noted on inspection 7-31-12 None noted again on 10-3-13 DJK
Additional Remarks:	Cleaning of this vessel was done by CB&I for final disposition of the CDR-Final visual inspection in accordance with the CDR and CB&I scope of work was done on 10-3-13 DJK FIR-CON-13-00007-In file cabinet

Notes:
1) During the assessment described in this report the exterior and the interior of the tank system was visually inspected for weld breaks, cracks, punctures, coating damage, and other inadequate construction or installation procedures. The tank may have been entered (after it was verified safe for entry) to assess the condition of the coating, welds and to inspect for any deficiencies or degradation of internal parts.
2) This field report form is applicable for the installation of the tank (via crane and rigging for example) and the final visual inspection conducted after the tank has been installed. It is not intended to document the in-process inspections of the piping and pipe supports. Other reports and documentation will address the condition and acceptability of these items.
3) Be aware that the inspection of an individual tank or miscellaneous treatment unit will not comprise a tank system. Most tank systems for the WTP at Hanford will consist of several tanks and some miscellaneous treatment units, piping, ancillary equipment, etc., so this field report will one several building blocks needed for use in writing a tank system certification report.
4) See NCR-12-0190 for receiving report discrepancies. Accompanied Bechtel (Gene Nunn) and NWI (Watkins) do PMI inspections on pressure boundary welds. NCR-12-0190 was closed on 9/29/14.

TANK EXTERNALS:

Description of Tank Anchoring System:	Stainless steel anchor bolts welded to embeds which are set in concrete.
Condition of Visible Portion of Tank Anchors:	TVIR-CON-05-0003
Condition of Paint and/or Insulation:	N/A
Condition of Nozzles:	All appeared acceptable 10-3-13DJK
Condition of nozzle-to-tank welds:	All appeared acceptable 10-3-13 DJK
Condition of other ancillary equipment:	3 ea. 8 inch leak detection boxes are acceptable.
Additional Remarks:	NONE

SECONDARY CONTAINMENT:

Description:	100% of the floor is lined with 1/8" thick stainless steel and approximately 6' up on walls.
Condition of concrete surfaces prior to installation of liner or coating:	New-acceptable
Condition of Liner Plates or coating after installation:	Acceptable
Condition of Liner Plate Welds:	Acceptable-Report 113766-0951
Leak Test Description & Results:	CB&I performed 100% vacuum box, (to the maximum extent possible), 100% visual, and 10% PT inspection on all welds.
Additional Remarks:	100% of the area was visually inspected by Caliber Inspection and BNI.

RECOMMENDATIONS / SUMMARY

This integrity assessment of the installed tank or miscellaneous treatment unit was performed in compliance with Dangerous Waste regulations issued by the Washington State Department of Ecology WAC 173-303-640 (3)(c) and Publication 94-114, Chapter 4. Also, refer to Caliber Inspection Tank Installation Plan.

The vessel is acceptable, however the one recommendation is that as of 9/15/15, the manhole lid on the top head was not yet welded in place, so this still needs to be done.

This document has been digitally signed using the Electrosign process.

Document for Signature

Document Number: 24590-CM-FC4-W000-00001-10-00001 **Rev:** 00B

	Participants	Signature	Completed	Status	Result	Comments
Final Approver	**4/15/2020 3:29 PM**					
	Frey, Dave		4/15/2020 5:32 PM	Completed	Approve	

Attachment 2

24590-WTP-3YV-SRM-00054, Rev 5

Specialized Requirements Verification Matrix for the Lab Radioactive Liquid Waste Disposal (RLD) Dangerous Waste Permit (DWP)

43 Pages

(including coversheet)

Issued by
RPP-WTP PDC

Requirements Verification Matrix

RVM Document No.: 24590-WTP-3YV-SRM-00054 **Rev:** 5

Title: Specialized Requirements Verification Matrix for the Lab Radioactive Liquid Waste Disposal (RLD) Dangerous Waste Permit (DWP)

Ref. SD/FD, SDD/FDD: 24590-LAB-3ZD-RLD-00001 **Rev:** 2

Associated Change Documents: 24590-LAB-3ZN-RLD-00006

System or Facility or "Specialized": Specialized **TRMS Date:** 8/19/2019

	Print/Type Name	Signature	Date
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Y	**3.10.1.1 Vessel Construction (RLD-VSL-00164)**	The RLD-VSL-00164 construction and location shall be in accordance with the locations, dimensions, capacities, material and appurtenances consistent with the DWP permitted design as shown in Table 3-3. **Table 3-3 Analytical Laboratory C3 Laboratory Area Sink Drains Vessel (RLD-VSL-00164)** **Vessel Number/Location:** RLD-VSL-00164 A-B003 **Description:** Laboratory Area Sink Drain Collection Vessel **Material:** Austenitic stainless steel UNSN08367 with a min. 6% Mo **Total Volume (US Gallons):** 3200 **Approximate Dimensions (Inside Diameter) x Height or Length in feet and inches (tangent line/tangent line):** 8 ft. 6 in. x 5 ft. 9 in.	R	ENV	C	24590-LAB-P1-60-00007, Rev. 003 24590-WTP-SRR-PROC-0014469, Rev. 000 24590-CM-POA-MVA0-00010-01-02, Rev. 00H 24590-LAB-TVIR-CON-05-0002, Rev. NA 24590-CM-HC4-HXYG-00240-02-00016, Rev 00A	24590-LAB-P1-60-00007, Analytical Laboratory General Arrangement Plan at EL (-)19'-2" Sections E-E, F-F & G-G 24590-WTP-SRR-PROC-0014469, Material Receiving Report, Eaton Metal Products Company, RLD-VSL-00164 and components. See Form U-1A Manufacturer's Data Report for Pressure Vessels (page 105 of 199 in the pdf file). 24590-CM-POA-MVA0-00010-01-02, Eaton Metal Products General Arrangement Vessel RLD-VLS-000164 24590-LAB-TVIR-CON-05-0002, Tank/Vessel Inspection Record – RLD-VSL-00164 – Partial Installation of Lab Area Sink Drain Collection Vessel (RLD C3 Vessel RLD-VSL-00164) Vendor data indicates the tank shell is constructed of SB-688 (N08367). This is a chromium-nickel-molybdenum and iron alloy the specification of which is 20.00 to 22.00 percent chromium, 23.5 to 25.50 percent nickel and 6.00 to 7.00 molybdenum with the remainder mostly iron. See ASTM B688. 24590-CM-HC4-HXYG-00240-02-00016, Report – IQRPE Structural Integrity Assessment Report for Lab RLD Vessels (RLD-VSL-00164 and RLD-VSL-00165)	
Y	**3.10.1.2 Vessel (RLD-VSL-00164) Handling and Installation**	The installation of the RLD-VSL-00164 permitted vessel shall be performed with proper handling procedures to prevent damage to the system during installation. Prior to covering, enclosing, or placing the Lab RLD tank system or component, an independent, qualified installation inspector or an independent, qualified, registered professional engineer, either of whom is trained and experienced in the proper installation of tank systems or components, must inspect the system as specified in WAC 173-303-640 (3)(c), WAC 173-303-640 (3)(h) • Specify and document the handling or installation procedures to protect the integrity of the tank system. The procedures should prevent or detect the following defects: o weld breaks (WAC 173-303-640 (3)(c)(i)) o punctures (WAC 173-303-640 (3)(c)(ii)) o scrapes of protective coatings (WAC 173-303-640 (3)(c)(iii)) o cracks (WAC 173-303-640 (3)(c)(iv)) o corrosion (WAC 173-303-640 (3)(c)(v)) o other structural damage or inadequate construction or installation (WAC 173-303- 640(3)(c)(vi)) • Specify and document the remedies for any handling or installation procedure discrepancies identified before the tank system is covered, enclosed, or placed in use. (WAC 173-303-640(3)(c))	R	ENV	C	24590-CM-FC4-W000-00001-10-00001, Rev. 00B 24590-CM-FC4-W000-00001-57-00202, Rev. 00A 24590-CM-FC4-W000-00001-57-00179, Rev. 00A	24590-CM-FC4-W000-00001-10-00001, Updated Partial Certification Report for LAB RLD System for Subcontract No. 24590-CM-FC4-W000-00001 The independent installation inspections have been conducted by Mistras. One partial certification report has been prepared for this tank system, its associated ancillary equipment and secondary containment. 24590-CM-FC4-W000-00001-57-00202, Inspection / Verification Reports: LAB-RLD - Report No. 113766-4242 Dated 10-13-15 24590-CM-FC4-W000-00001-57-00179, INSPECTION / VERIFICATION REPORTS: LAB-RLD - REPORT NO. 113766-4080 DATED 07/22/14	

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Y	**3.10.1.3 (RLD-VSL-00164) System Installation**	The independent tank system installation inspection and subsequent written statements will be certified pursuant to Permit Condition III.10.E.1.d., comply with all requirements of WAC 173-303-640(3)(h) and will consider, but not be limited to, the following tank system installation documentation: • Field installation report with date of installation; • Approved welding procedures; • Welder qualifications and certification; • Hydro-test reports, as applicable, in accordance with the American Society of Mechanical Engineers Boiler and Pressure Vessel Code, Section VIII, Division 1, American Petroleum Institute (API) Standard 620, or Standard 650 as applicable; • Tester credentials; • Field inspector credentials; • Field inspector reports; • Field waiver reports; and • Non-compliance reports and corrective action (including field waiver reports) and repair reports.	R	ENV	C	24590-CM-FC4-W000-00001-10-00001, Rev. 00B	24590-CM-FC4-W000-00001-10-00001, Updated Partial Certification Report for LAB RLD System for Subcontract No. 24590-CM-FC4-W000-00001 The independent installation inspections have been conducted by Mistras. One partial certification report has been prepared for this tank system, its associated ancillary equipment and secondary containment. Mistras has prepared a partial integrity assessment report, 24590-CM-FC4-W000-00001-10-00001, Rev. 00B, for RLD-VSL-00164 and RLD-VSL-00165 stating the design is sufficient to ensure that the vessels are adequately designed and have sufficient structural strength, compatibility with the waste(s) to be processed/stored/treated, and corrosion protection to ensure that they will not collapse, rupture, or fail. All remaining construction items for vessel RLD-VSL-0164 have been verified.	
	3.10.1.4 Vapor Collection System (RLD-VSL-00164)	The Lab RLD-VSL-00164 tank system is constructed with features that prevent escape of vapors, fumes, or other emissions into the air.	R	ENV	C	24590-LAB-M6-RLD-00002001, Rev. 002 24590-LAB-M8-C5V-00003001, Rev. 001 24590-LAB-M8-C5V-00002001, Rev. 007 24590-LAB-APIR-CON-05-0407, Rev. NA 24590-LAB-APIR-CON-12-0150, Rev. NA 24590-LAB-APIR-CON-14-0018, Rev. NA 24590-LAB-M6N-M80T-00008, Rev NA	24590-LAB-M6-RLD-00002001, P&ID LAB Radioactive Liquid Waste Disposal System C3 Collection & Transfer RLD-VSL-00164 24590-LAB-M8-C5V-00003001, Analytical Laboratory V&ID C3 RLD Vessel/Cell C5V System Exhaust 24590-LAB-M8-C5V-00002001, Analytical Laboratory Plant Room V&ID C5V System Exhaust 24590-LAB-APIR-CON-05-0407, Aboveground Piping Inspection Record LAB-RLD-GV-02225-S11E 24590-LAB-APIR-CON-12-0150, Aboveground Piping Inspection Record LAB-RLD-GV-02225-S11E 24590-LAB-APIR-CON-14-0018, Aboveground Piping Inspection Record LAB-RLD-GV-02225-S11E 24590-LAB-M6N-M80T-00008 describes the drawing change notice for 24590-LAB-LAB M6-00002001 which revised the C3 exhaust	
Y	**3.10.1.5 Tightness Testing (RLD-VSL-00164)**	The Permittees must test for tightness for the RLD-VSL-00164 and ancillary equipment prior to these components being covered, enclosed, or placed into use. If a tank system is found not to be tight, all repairs necessary to remedy the leak(s) in the system must be performed prior to the tank system being covered, enclosed, or placed in use.	R	ENV	C	24590-CM-FC4-W000-00001-10-00001, Rev. 00B 24590-LAB-PPTR-CON-14-0033, Rev. NA	24590-CM-FC4-W000-00001-10-00001, Updated Partial Certification Report for LAB RLD System for Subcontract No. 24590-CM-FC4-W000-00001. The independent installation inspections have been conducted by Mistras. A partial certification report has been prepared for this tank system, its associated ancillary equipment and secondary containment.	

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							24590-LAB-PPTR-CON-14-0033, HYDROSTATIC PRESSURE TESTING OF RLD-VSL-00164 Independent installation inspector is reviewing pressure test data sheets as part of the basis for the III certification. There are also above ground piping inspection records at least some of which Mistras has signed. See for example, 24590-LAB-APIR-CON-05-0199.	
Y	**3.10.1.6 Spill and Overflow Prevention Controls (RLD-VSL-00164)**	RLD-VSL-00164 shall be constructed with the appropriate instrumentation to allow for the control and prevention of overflow from the tank or containment systems. See Table 3-4 for the overflow instruments. **Table 3-4 Associated Instruments for LAB RLD-VSL-00164** **Monitoring/Control Parameter:** Level Measurement for RLD-VSL-00164 **Type of Instrument/Control Device:** Level Interlock **Instrument/Control Device Tag Number:** LSHH-6202A	R	ENV	C	24590-LAB-M6-RLD-00002001, Rev. 002 24590-LAB-APIR-CON-10-0022, Rev. NA 24590-LAB-J3-RLD-01007, Rev. 004	24590-LAB-M6-RLD-00002001, P&ID – LAB Radioactive Liquid Waste Disposal System C3 Collection & Transfer RLD-VSL-00164 24590-LAB-APIR-CON-10-0022, Aboveground Piping Inspection Record RFE initialed the APIR verifying that all components illustrated on 24590-LAB-P3-RLD-GR00047001 had been installed, this included LSHH-6202.	
	3.10.1.6 Spill and Overflow Prevention Controls (RLD-VSL-00164)	RLD-VSL-00164 shall be constructed with the appropriate instrumentation to allow for the control and prevention of overflow from the tank or containment systems. See Table 3-4 for the overflow instruments. **Table 3-4 Associated Instruments for LAB RLD-VSL-00164** **Monitoring/Control Parameter:** Level Measurement for RLD-VSL-00164 **Type of Instrument/Control Device:** Level Transmitter **Instrument/Control Device Tag Number:** LT-6202	R	ENV	C	24590-LAB-SEC-E-14-0256, Rev. 000 24590-LAB-ITIR-CON-19-0002, Rev. NA 24590-LAB-M6-RLD-00002003, Rev. 003	24590-LAB-SEC-E-14-0256, SETROUTE Equipment Installation Card RFE signed the SEC verifying as many as 15 different attributes of the installation of LT-6212 in accordance with the design documents referenced on the installation card. 24590-LAB-ITIR-CON-19-0002 states Completed Scope of Record Satisfies Punch Item WG-02672. 24590-LAB-M6-RLD-00002003, P&ID – LAB Radioactive Liquid Waste Disposal System C3 Collection & Transfer RLD-PMP-00182A/B	
Y	**3.10.1.6 Spill and Overflow Prevention Controls (RLD-VSL-00164)**	RLD-VSL-00164 shall be constructed with the appropriate instrumentation to allow for the control and prevention of overflow from the tank or containment systems. See Table 3-4 for the overflow instruments. **Table 3-4 Associated Instruments for LAB RLD-VSL-00164** **Monitoring/Control Parameter:** Level Measurement for RLD-VSL-00164 **Type of Instrument/Control Device:** Level Indicator **Instrument/Control Device Tag Number:** LI-6202A	R	ENV	C	24590-LAB-M6-RLD-00002001, Rev. 002 24590-LAB-PISW-J-08-0001-01, Rev. 10	24590-LAB-M6-RLD-00002001, P&ID – LAB Radioactive Liquid Waste Disposal System C3 Collection & Transfer RLD-VSL-00164 24590-LAB-PISW-J-08-0001-01, System Design Document for the LAB Facility (see page 512 of 1692 for a screen shot of the control system. PISW illustrates the indicator is implemented in the control system.	
	3.10.1.6 Spill and Overflow Prevention Controls (RLD-VSL-00164)	RLD-VSL-00164 shall be constructed with the appropriate instrumentation to allow for the control and prevention of overflow from the tank or containment systems. See Table 3-4 for the overflow instruments. **Table 3-4 Associated Instruments for LAB RLD-VSL-00164** **Monitoring/Control Parameter:** Level Measurement for RLD-SUMP-00041	R	ENV	C	24590-LAB-SEC-E-14-0255, Rev. 000 24590-LAB-M6-RLD-00002001, Rev. 002	24590-LAB-SEC-E-14-0255, SETROUTE Equipment Installation Card 24590-LAB-M6-RLD-00002001, P&ID – LAB Radioactive Liquid Waste Disposal System C3 Collection & Transfer RLD-VSL-00164 RFE signed the SEC verifying as many as 15 different attributes of the installation of LT-6211 in accordance with the design documents referenced on the installation card.	

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		Type of Instrument/Control Device: Level Transmitter **Instrument/Control Device Tag Number:** LT-6211						
	3.10.1.6 Spill and Overflow Prevention Controls (RLD-VSL-00164)	RLD-VSL-00164 shall be constructed with the appropriate instrumentation to allow for the control and prevention of overflow from the tank or containment systems. See Table 3-4 for the overflow instruments. **Table 3-4 Associated Instruments for LAB RLD-VSL-00164** **Monitoring/Control Parameter:** Level Measurement for RLD-SUMP-00041 **Type of Instrument/Control Device:** Level Indicator **Instrument/Control Device Tag Number:** LI-6211	R	ENV	C	24590-LAB-M6-RLD-00002001, Rev. 002 24590-LAB-PISW-J-08-0001-01, Rev. 10	24590-LAB-M6-RLD-00002001, P&ID – LAB Radioactive Liquid Waste Disposal System C3 Collection & Transfer RLD-VSL-00164 24590-LAB-PISW-J-08-0001-01, System Design Document for the LAB Facility (see page 512 of 1692 for a screen shot of the control system illustrating this indicator) PISW illustrates the indicator is implemented in the control system.	
Y	**3.10.1.6 Spill and Overflow Prevention Controls (RLD-VSL-00164)**	RLD-VSL-00164 shall be constructed with the appropriate instrumentation to allow for the control and prevention of overflow from the tank or containment systems. See Table 3-4 for the overflow instruments. **Table 3-4 Associated Instruments for LAB RLD-VSL-00164** **Monitoring/Control Parameter:** Level Measurement for RLD-SUMP-00041 **Type of Instrument/Control Device:** Leak Rate **Instrument/Control Device Tag Number:** LKY-6211	R	ENV	C	24590-LAB-M6-RLD-00002001, Rev. 002 24590-LAB-PISW-J-08-0001-01, Rev. 10	24590-LAB-M6-RLD-00002001, P&ID – LAB Radioactive Liquid Waste Disposal System C3 Collection & Transfer RLD-VSL-00164 24590-LAB-PISW-J-08-0001-01, System Design Document for the LAB Facility (see page 512 of 1692 for a screen shot of the control system illustrating this indicator) identified as LKI-6211. PISW illustrates the indicator is implemented in the control system.	
	3.10.1.6 Spill and Overflow Prevention Controls (RLD-VSL-00164)	RLD-VSL-00164 shall be constructed with the appropriate instrumentation to allow for the control and prevention of overflow from the tank or containment systems. See Table 3-4 for the overflow instruments. **Table 3-4 Associated Instruments for LAB RLD-VSL-00164** **Monitoring/Control Parameter:** Level Measurement for RLD-SUMP-00045 **Type of Instrument/Control Device:** Level Transmitter **Instrument/Control Device Tag Number:** LT-6212	R	ENV	C	24590-LAB-SEC-E-14-0256, Rev. 000 24590-LAB-M6-RLD-00002003, Rev. 003	24590-LAB-SEC-E-14-0256, SETROUTE Equipment Installation Card 24590-LAB-M6-RLD-00002003, P&ID – LAB Radioactive Liquid Waste Disposal System C3 Collection & Transfer RLD-PMP-00182A/B RFE signed the SEC verifying as many as 15 different attributes of the installation of LT-6212 in accordance with the design documents referenced on the installation card.	
	3.10.1.6 Spill and Overflow Prevention Controls (RLD-VSL-00164)	RLD-VSL-00164 shall be constructed with the appropriate instrumentation to allow for the control and prevention of overflow from the tank or containment systems. See Table 3-4 for the overflow instruments. **Table 3-4 Associated Instruments for LAB RLD-VSL-00164** **Monitoring/Control Parameter:** Level Measurement for RLD-SUMP-00045 **Type of Instrument/Control Device:** Level Indicator **Instrument/Control Device Tag Number:** LI-6212	R	ENV	C	24590-LAB-M6-RLD-00002003, Rev. 003 24590-LAB-PISW-J-08-0001-01, Rev. 10	24590-LAB-M6-RLD-00002003, P&ID – LAB Radioactive Liquid Waste Disposal System C3 Collection & Transfer RLD-PMP-00182A/B 24590-LAB-PISW-J-08-0001-01, System Design Document for the LAB Facility (see page 512 of 1692 for a screen shot of the control system illustrating this indicator) PISW illustrates the indicator is implemented in the control system.	
	3.10.1.6 Spill and Overflow Prevention Controls (RLD-VSL-00164)	RLD-VSL-00164 shall be constructed with the appropriate instrumentation to allow for the control and prevention of overflow from the tank or containment systems. See Table 3-4 for the overflow instruments.	R	ENV	C	24590-LAB-M6-RLD-00007001, Rev. 001 24590-LAB-SEC-E-14-0323, Rev. 000 24590-LAB-ITIR-CON-12-0940, Rev. NA	24590-LAB-M6-RLD-00007001, P&ID – LAB Radioactive Liquid Waste Disposal System C3 Leak Detection Boxes	

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		Table 3-4 Associated Instruments for LAB RLD-VSL-00164 **Monitoring/Control Parameter:** Level Measurement for RLD-LDB-00005 **Type of Instrument/Control Device:** Level High Switch **Instrument/Control Device Tag Number:** LSH-6215					24590-LAB-SEC-E-14-0323, SETROUTE Equipment Installation Card RLD-LSH-6215 24590-LAB-ITIR-CON-12-0940, Instrument and Tubing Inspection Record RFE signed the SEC verifying as many as 15 different attributes of the installation of LSH-6215 in accordance with the design documents referenced on the installation card.	
	3.10.1.6 Spill and Overflow Prevention Controls (RLD-VSL-00164)	RLD-VSL-00164 shall be constructed with the appropriate instrumentation to allow for the control and prevention of overflow from the tank or containment systems. See Table 3-4 for the overflow instruments. **Table 3-4 Associated Instruments for LAB RLD-VSL-00164** **Monitoring/Control Parameter:** Level Measurement for RLD-LDB-00005 **Type of Instrument/Control Device:** Level High alarm **Instrument/Control Device Tag Number:** LAH-6215	R	ENV	C	24590-LAB-M6-RLD-00007001, Rev. 001 24590-LAB-PISW-J-08-0001-01, Rev. 10	24590-LAB-M6-RLD-00007001, P&ID – LAB Radioactive Liquid Waste Disposal System C3 Leak Detection Boxes 24590-LAB-PISW-J-08-0001-01, System Design Document for the LAB Facility (see page 512 of 1692 for a screen shot of the control system illustrating this alarm) PISW illustrates the alarm is implemented in the control system.	
	3.10.1.6 Spill and Overflow Prevention Controls (RLD-VSL-00164)	RLD-VSL-00164 shall be constructed with the appropriate instrumentation to allow for the control and prevention of overflow from the tank or containment systems. See Table 3-4 for the overflow instruments. **Table 3-4 Associated Instruments for LAB RLD-VSL-00164** **Monitoring/Control Parameter:** Level Measurement for RLD-LDB-00006 **Type of Instrument/Control Device:** Level High Switch **Instrument/Control Device Tag Number:** LSH-6701	R	ENV	C	24590-LAB-M6-RLD-00007001, Rev. 001 24590-LAB-SEC-E-14-0324, Rev. 000 24590-LAB-ITIR-CON-12-0941, Rev. NA	24590-LAB-M6-RLD-00007001, P&ID – LAB Radioactive Liquid Waste Disposal System C3 Leak Detection Boxes 24590-LAB-SEC-E-14-0324, SETROUTE Equipment Installation Card RLD-LSH-6701 24590-LAB-ITIR-CON-12-0941, Instrument and Tubing Inspection Record RFE signed the SEC verifying as many as 15 different attributes of the installation of LSH-6701in accordance with the design documents referenced on the installation card.	
	3.10.1.6 Spill and Overflow Prevention Controls (RLD-VSL-00164)	RLD-VSL-00164 shall be constructed with the appropriate instrumentation to allow for the control and prevention of overflow from the tank or containment systems. See Table 3-4 for the overflow instruments. **Table 3-4 Associated Instruments for LAB RLD-VSL-00164** **Monitoring/Control Parameter:** Level Measurement for RLD-LDB-00006 **Type of Instrument/Control Device:** Level High Alarm **Instrument/Control Device Tag Number:** LAH-6701	R	ENV	C	24590-LAB-M6-RLD-00007001, Rev. 001 24590-LAB-PISW-J-08-0001-01, Rev. 10	24590-LAB-M6-RLD-00007001, P&ID – LAB Radioactive Liquid Waste Disposal System C3 Leak Detection Boxes 24590-LAB-PISW-J-08-0001-01, System Design Document for the LAB Facility (see page 512 of 1692 for a screen shot of the control system illustrating this alarm) PISW illustrates the alarm is implemented in the control system.	
	3.10.1.6 Spill and Overflow Prevention Controls (RLD-VSL-00164)	RLD-VSL-00164 shall be constructed with the appropriate instrumentation to allow for the control and prevention of overflow from the tank or containment systems. See Table 3-4 for the overflow instruments. **Table 3-4 Associated Instruments for LAB RLD-VSL-00164** **Monitoring/Control Parameter:** Level Measurement for RLD-LDB-00007	R	ENV	C	24590-LAB-M6-RLD-00007001, Rev. 001 24590-LAB-SEC-E-14-0325, Rev. 000 24590-LAB-ITIR-CON-12-0942, Rev. NA	24590-LAB-M6-RLD-00007001, P&ID – LAB Radioactive Liquid Waste Disposal System C3 Leak Detection Boxes 24590-LAB-SEC-E-14-0325, SETROUTE Equipment Installation Card RLD-LSH-6702 24590-LAB-ITIR-CON-12-0942, Instrument and Tubing Inspection Record	

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		Type of Instrument/Control Device: Level High Switch **Instrument/Control Device Tag Number:** LSH-6702					RFE signed the SEC verifying as many as 15 different attributes of the installation of LSH-6702in accordance with the design documents referenced on the installation card.	
	3.10.1.6 Spill and Overflow Prevention Controls (RLD-VSL-00164)	RLD-VSL-00164 shall be constructed with the appropriate instrumentation to allow for the control and prevention of overflow from the tank or containment systems. See Table 3-4 for the overflow instruments. **Table 3-4 Associated Instruments for LAB RLD-VSL-00164** **Monitoring/Control Parameter:** Level Measurement for RLD-LDB-00007 **Type of Instrument/Control Device:** Level High Alarm **Instrument/Control Device Tag Number:** LAH-6702	R	ENV	C	24590-LAB-M6-RLD-00007001, Rev. 001 24590-LAB-PISW-J-08-0001-01, Rev. 10	24590-LAB-M6-RLD-00007001, P&ID – LAB Radioactive Liquid Waste Disposal System C3 Leak Detection Boxes 24590-LAB-PISW-J-08-0001-01, System Design Document for the LAB Facility (see page 512 of 1692 for a screen shot of the control system illustrating this alarm) PISW illustrates the alarm is implemented in the control system.	
	3.10.1.6 Spill and Overflow Prevention Controls (RLD-VSL-00164)	RLD-VSL-00164 shall be constructed with the appropriate instrumentation to allow for the control and prevention of overflow from the tank or containment systems. See Table 3-4 for the overflow instruments. **Table 3-4 Associated Instruments for LAB RLD-VSL-00164** **Monitoring/Control Parameter:** Level Measurement for RLD-LDB-00008 **Type of Instrument/Control Device:** Level High Switch **Instrument/Control Device Tag Number:** LSH-6703	R	ENV	C	24590-LAB-M6-RLD-00007001, Rev. 001 24590-LAB-SEC-E-14-0326, Rev. 000 24590-LAB-ITIR-CON-12-0943, Rev. NA	24590-LAB-M6-RLD-00007001, P&ID – LAB Radioactive Liquid Waste Disposal System C3 Leak Detection Boxes 24590-LAB-SEC-E-14-0326, SETROUTE Equipment Installation Card 24590-LAB-ITIR-CON-12-0943, Instrument and Tubing Inspection Record RFE signed the SEC verifying as many as 15 different attributes of the installation of LSH-6703in accordance with the design documents referenced on the installation card.	
	3.10.1.6 Spill and Overflow Prevention Controls (RLD-VSL-00164)	RLD-VSL-00164 shall be constructed with the appropriate instrumentation to allow for the control and prevention of overflow from the tank or containment systems. See Table 3-4 for the overflow instruments. **Table 3-4 Associated Instruments for LAB RLD-VSL-00164** **Monitoring/Control Parameter:** Level Measurement for RLD-LDB-00008 **Type of Instrument/Control Device:** Level High Alarm **Instrument/Control Device Tag Number:** LAH-6703	R	ENV	C	24590-LAB-M6-RLD-00007001, Rev. 001 24590-LAB-PISW-J-08-0001-01, Rev. 10	24590-LAB-M6-RLD-00007001, P&ID – LAB Radioactive Liquid Waste Disposal System C3 Leak Detection Boxes 24590-LAB-PISW-J-08-0001-01, System Design Document for the LAB Facility (see page 512 of 1692 for a screen shot of the control system illustrating this alarm) PISW illustrates the alarm is implemented in the control system.	
	3.10.1.6 Spill and Overflow Prevention Controls (RLD-VSL-00164)	RLD-VSL-00164 shall be constructed with the appropriate instrumentation to allow for the control and prevention of overflow from the tank or containment systems. See Table 3-4 for the overflow instruments. **Table 3-4 Associated Instruments for LAB RLD-VSL-00164** **Monitoring/Control Parameter:** Level Measurement for RLD-LDB-00011 **Type of Instrument/Control Device:** Level High Switch **Instrument/Control Device Tag Number:** LSH-6704	R	ENV	C	24590-LAB-M6-RLD-00007001, Rev. 001 24590-LAB-SEC-E-14-0327, Rev. 000 24590-LAB-ITIR-CON-12-0944, Rev. NA	24590-LAB-M6-RLD-00007001, P&ID – LAB Radioactive Liquid Waste Disposal System C3 Leak Detection Boxes 24590-LAB-SEC-E-14-0327, SETROUTE Equipment Installation Card RLD-LSH-6704 24590-LAB-ITIR-CON-12-0944, Instrument and Tubing Inspection Record RFE signed the SEC verifying as many as 15 different attributes of the installation of LSH-6704 in accordance with the design documents referenced on the installation card.	
	3.10.1.6 Spill and Overflow Prevention	RLD-VSL-00164 shall be constructed with the appropriate instrumentation to allow for the control and prevention of	R	ENV	C	24590-LAB-M6-RLD-00007001, Rev. 001 24590-LAB-PISW-J-08-0001-01, Rev. 10	24590-LAB-M6-RLD-00007001, P&ID – LAB Radioactive Liquid Waste Disposal System C3 Leak Detection Boxes	

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	Controls (RLD-VSL-00164)	overflow from the tank or containment systems. See Table 3-4 for the overflow instruments. **Table 3-4 Associated Instruments for LAB RLD-VSL-00164** **Monitoring/Control Parameter:** Level Measurement for RLD-LDB-00011 **Type of Instrument/Control Device:** Level High Alarm **Instrument/Control Device Tag Number:** LAH-6704					24590-LAB-PISW-J-08-0001-01, System Design Document for the LAB Facility (see page 512 of 1692 for a screen shot of the control system illustrating this alarm) PISW illustrates the alarm is implemented in the control system.	
	3.10.1.7 Corrosion Protection (RLD-VSL-00164)	The Permittees must provide the type and degree of corrosion protection for RLD-VSL-00164 recommended by an independent corrosion expert, based on the information provided in Operating Unit Group 10, Appendix 11.9, and 11.11 of this Permit, as approved pursuant to Permit Conditions III.10.E.9.b.i., III.10.E.9.b.iv., III.10.E.9.b.v., III.10.E.9.c.i., III.10.E.9.c.iv., III.10.E.9.c.v., III.10.E.9.d.i., III.10.E.9.d.iv., and III.10.E.9.d.v. or other corrosion protection if the Ecology believes other corrosion protection is necessary to ensure the integrity of the tank system during use of the tank system. The installation of a corrosion protection system that is field fabricated must be supervised by an independent corrosion expert to ensure proper installation.	R	ENV	C	24590-CM-FC4-EQ00-00002-17-00017, Rev. 00A 24590-CM-FC4-EQ00-00002-17-00018, Rev. 00A	24590-CM-FC4-EQ00-00002-17-00017, Northwest Corrosion Engineering Technical Memorandum, Bechtel National, Inc. – Hanford Waste Treatment Plant Direct Feed Low Activity Waste/Effluent Management Facility Piping – Corrosion Protection Evaluation and Considerations 24590-CM-FC4-EQ00-00002-17-00018, Responses to Comments of the ICE DFLAW Piping Design Drawings Review Independent corrosion expert evaluation of the underground transfer lines associated with the Laboratory Area Sink Collection Vessel. Included with this vessel are the following underground transfer lines: RLD-WU-22142-S32B-3 RLD-WU-22142-S32B-6 On P&ID: 24590-LAB-M6-RLD-00002003 Transferring waste from RLD-VSL-00164 and RLD-SUMP-00041 to DEP-VSL-00002 This requirement is not applicable to LAB RLD-VSL-00164 as there are no components of the tank, other than the underground transfer lines that are in contact with soil or with water.	
Y	**3.10.1.8 Support and Protect Ancillary Equipment (RLD-VSL-00164)**	RLD-VSL-00164 ancillary equipment shall be supported and protected against physical damage and excessive stress due to settlement, vibration, expansion, or contraction. (WAC 173-303-640(3)(f)).	R	ENV	C	24590-CM-HC4-HXYG-00240-02-00015, Rev A 24590-WTP-PER-CSA-02-001, Rev. 11 24590-LAB-DGC-S13T-00001, Rev. 0 24590-LAB-DGC-S 13T-00003, Rev. 0 24590-WTP-PER-M-02-002, Rev. 4 24590-WTP-GPG-ENG-004, Rev. 3 24590-WTP-SE-ENS-03-704, Rev. 0 24590-WTP-PHC-P50-00001, Rev. 1 24590-LAB-M6C-RLD-00022, Rev. 1 24590-LAB-P6C-RLD-00006, Rev. 1 24590-LAB-P6C-RLD-00041, Rev. 0 24590-LAB-P6C-RLD-00045, Rev. 0 24590-LAB-PSIR-CON-05-0011, Rev. NA 24590-LAB-PSIR-CON-05-0012, Rev. NA 24590-LAB-PSIR-CON-05-0019, Rev. NA	IQRPE Structural Integrity Assessment Report for LAB RLD Ancillary Equipment, 24590-CM-HC4-HXYG-00240-02-00015. The Pipe Stress Design Criteria document requires the use of the ASME B31.3 Code and DOE-STD-1020-94 standard document for piping design. ASME B31.3 Code requires explicit consideration of operating pressure, operating temperature, thermal expansion/contraction, settlement, vibration, and corrosion allowance in the design of piping. Elements of the ASME B&PV Code, Section III, Division 1, Subsection NC and Appendix F, and the Uniform Building Code (UBC) are used to supplement the requirements of ASME B31.3 Code and DOESTD-1020-94 for the design of Seismic Category (SC-III/SC-IV) piping. Details of the seismic design methods are discussed in the Pipe Stress Design Criteria and Safety Evaluation documents. The Basis of Design document, 24590-WTP-DC-ST-01-001, specifies that mechanical equipment is to be designed for a nominal plant life of 40 years. Components in non-maintainable areas are to be designed to last the entire design life of the plant. The Materials for Ancillary	

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						24590-LAB-PSIR-CON-05-0020, Rev. NA 24590-LAB-PSIR-CON-05-0021, Rev. NA 24590-LAB-PSIR-CON-05-0022, Rev. NA 24590-LAB-PSIR-CON-05-0028, Rev. NA 24590-LAB-PSIR-CON-05-0029, Rev. NA 24590-LAB-PSIR-CON-05-0036, Rev. NA 24590-LAB-PSIR-CON-05-0044, Rev. NA 24590-LAB-PSIR-CON-05-0114, Rev. NA 24590-LAB-PSIR-CON-05-0122, Rev. NA 24590-LAB-PSIR-CON-05-0129, Rev. NA 24590-LAB-PSIR-CON-07-0414, Rev. NA 24590-LAB-PSIR-CON-08-0257, Rev. NA 24590-LAB-PSIR-CON-08-0296, Rev. NA 24590-LAB-PSIR-CON-08-0373, Rev. NA 24590-LAB-PSIR-CON-09-0026, Rev. NA 24590-LAB-PSIR-CON-09-0028, Rev. NA 24590-LAB-PSIR-CON-09-0029, Rev. NA 24590-LAB-PSIR-CON-09-0030, Rev. NA 24590-LAB-PSIR-CON-09-0031, Rev. NA 24590-LAB-PSIR-CON-09-0032, Rev. NA 24590-LAB-PSIR-CON-09-0033, Rev. NA 24590-LAB-PSIR-CON-09-0034, Rev. NA 24590-LAB-PSIR-CON-09-0035, Rev. NA 24590-LAB-PSIR-CON-09-0036, Rev. NA 24590-LAB-PSIR-CON-09-0037, Rev. NA 24590-LAB-PSIR-CON-09-0038, Rev. NA 24590-LAB-PSIR-CON-09-0039, Rev. NA 24590-LAB-PSIR-CON-09-0040, Rev. NA 24590-LAB-PSIR-CON-09-0041, Rev. NA 24590-LAB-PSIR-CON-09-0042, Rev. NA 24590-LAB-PSIR-CON-09-0043, Rev. NA 24590-LAB-PSIR-CON-09-0044, Rev. NA	Equipment document specifies that ancillary equipment downstream of a waste source vessel is to be constructed of the same or better material and with the same corrosion allowance as the source vessel, unless the service seen in the downstream line warrants a different material, corrosion allowance, or other modification. Using the same or better materials and corrosion allowance for downstream ancillary equipment ensures that the equipment will be able to withstand all anticipated loadings for the entire design service life. The above mentioned codes and standards including the Design Guide document ensure that the ancillary equipment has adequate strength at the end of its design life to withstand all anticipated loads. Review of sample ancillary equipment calculations and drawings indicates that they are adequately designed meeting the requirements of the aforementioned applicable code and standards. This list of inspection records includes support for DWP piping and non-DWP piping in the RLD system. To determine if the piping is DWP or not, review the Parent ID No. on the form and the referenced Isometric drawing number to determine the piping fluid code. The RFE initials the PSIRs verifying up to 9 different attributes of the pipe support installation verifying that RLD-VSL-00164 ancillary equipment is supported and protected against physical damage and excessive stress due to settlement, vibration, expansion or contraction. 24590-LAB-PSIR-CON-05-0011, Rev. NA LAB-RLD-H00186, LAB-RLD-H00187, LAB-RLD-H00188, LAB-RLD-H00189 24590-LAB-PSIR-CON-05-0012, Rev. NA LAB-RLD-H00198, LAB-RLD-H00199 24590-LAB-PSIR-CON-05-0019, Rev. NA LAB-RLD-H00166 24590-LAB-PSIR-CON-05-0020, Rev. NA LAB-RLD-H00152 24590-LAB-PSIR-CON-05-0021, Rev. NA LAB-RLD-H000167 24590-LAB-PSIR-CON-05-0022, Rev. NA LAB-RLD-H00163 24590-LAB-PSIR-CON-05-0028, Rev. NA LAB-RLD-H00162 24590-LAB-PSIR-CON-05-0029, Rev. NA LAB-RLD-H00164 24590-LAB-PSIR-CON-05-0036, Rev. NA LAB-RLD-H00210 24590-LAB-PSIR-CON-05-0044, Rev. NA LAB-RLD-H00160 24590-LAB-PSIR-CON-05-0114, Rev. NA 24590-LAB-RLD-H00158 24590-LAB-PSIR-CON-05-0122, Rev. NA LAB-RLD-H00171 24590-LAB-PSIR-CON-05-0129, Rev. NA LAB-RLD-H00179 24590-LAB-PSIR-CON-07-0414, Rev. NA LAB-RLD-H10003 24590-LAB-PSIR-CON-08-0257, Rev. NA LAB-RLD-H10002	

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						24590-LAB-PSIR-CON-09-0045, Rev. NA	24590-LAB-PSIR-CON-08-0296, Rev. NA 24590-LAB-RLD-H10006	
						24590-LAB-PSIR-CON-09-0046, Rev. NA	24590-LAB-PSIR-CON-08-0373, Rev. NA LAB-RLD-H10004	
						24590-LAB-PSIR-CON-09-0047, Rev. NA	24590-LAB-PSIR-CON-09-0026, Rev. NA LAB-RLD-H10005	
						24590-LAB-PSIR-CON-09-0048, Rev. NA	24590-LAB-PSIR-CON-09-0028, Rev. NA LAB-RLD-H00153	
						24590-LAB-PSIR-CON-09-0049, Rev. NA	24590-LAB-PSIR-CON-09-0029, Rev. NA LAB-RLD-H00190, H00191	
						24590-LAB-PSIR-CON-09-0050, Rev. NA	24590-LAB-PSIR-CON-09-0030, Rev. NA LAB-RLD-H00072	
						24590-LAB-PSIR-CON-09-0051, Rev. NA	24590-LAB-PSIR-CON-09-0031, Rev. NA LAB-RLD-H00054	
						24590-LAB-PSIR-CON-09-0052, Rev. NA	24590-LAB-PSIR-CON-09-0032, Rev. NA LAB-RLD-H00009, H00010, H00011, H00012, H00013	
						24590-LAB-PSIR-CON-09-0053, Rev. NA	24590-LAB-PSIR-CON-09-0033, Rev. NA LAB-RLD-H00112, H00113, H00114, H00326	
						24590-LAB-PSIR-CON-09-0054, Rev. NA	24590-LAB-PSIR-CON-09-0034, Rev. NA LAB-RLD-H00340, H00342	
						24590-LAB-PSIR-CON-09-0055, Rev. NA	24590-LAB-PSIR-CON-09-0035, Rev. NA LAB-RLD-H00151	
						24590-LAB-PSIR-CON-09-0056, Rev. NA	24590-LAB-PSIR-CON-09-0036, Rev. NA LAB-RLD-H00107, LAB-RLD-H00108	
						24590-LAB-PSIR-CON-09-0057, Rev. NA	24590-LAB-PSIR-CON-09-0037, Rev. NA LAB-RLD-H00104, LAB-RLD-H00149, LAB-RLD-H00157	
						24590-LAB-PSIR-CON-10-0003, Rev. NA	24590-LAB-PSIR-CON-09-0038, Rev. NA LAB-RLD-H00092, LAB-RLD-H00096	
						24590-LAB-PSIR-CON-10-0004, Rev. NA	24590-LAB-PSIR-CON-09-0039, Rev. NA LAB-RLD-H00109	
						24590-LAB-PSIR-CON-10-0005, Rev. NA	24590-LAB-PSIR-CON-09-0040, Rev. NA LAB-RLD-H00093, LAB-RLD-H00094, LAB-RLD-H00115	
						24590-LAB-PSIR-CON-10-0006, Rev. NA	24590-LAB-PSIR-CON-09-0041, Rev. NA LAB-RLD-H00050, LAB-RLD-H00098, LAB-RLD-H00099, LAB-RLD-H00394, LAB-RLD-H00395	
						24590-LAB-PSIR-CON-10-0007, Rev. NA	24590-LAB-PSIR-CON-09-0042, Rev. NA LAB-RLD-H00105, LAB-RLD-H00393	
						24590-LAB-PSIR-CON-10-0008, Rev. NA	24590-LAB-PSIR-CON-09-0043, Rev. NA LAB-RLD-H00116, LAB-RLD-H00117, LAB-RLD-H00118, LAB-RLD-H00119	
						24590-LAB-PSIR-CON-10-0010, Rev. NA	24590-LAB-PSIR-CON-09-0044, Rev. NA LAB-RLD-H00121, LAB-RLD-H00122, LAB-RLD-H00128, LAB-RLD-H00129	
						24590-LAB-PSIR-CON-10-0011, Rev. NA	24590-LAB-PSIR-CON-09-0045, Rev. NA LAB-RLD-H00100, LAB-RLD-H00170, LAB-RLD-H00175	
						24590-LAB-PSIR-CON-10-0012, Rev. NA	24590-LAB-PSIR-CON-09-0046, Rev. NA LAB-RLD-H00001, H00066, H00067, H00068, H00071, H00207	
						24590-LAB-PSIR-CON-10-0013, Rev. NA	24590-LAB-PSIR-CON-09-0047, Rev. NA LAB-RLD-H00069	
						24590-LAB-PSIR-CON-10-0014, Rev. NA		
						24590-LAB-PSIR-CON-10-0015, Rev. NA		
						24590-LAB-PSIR-CON-10-0016, Rev. NA		
						24590-LAB-PSIR-CON-10-0017, Rev. NA		
						24590-LAB-PSIR-CON-10-0018, Rev. NA		
						24590-LAB-PSIR-CON-10-0019, Rev. NA		
						24590-LAB-PSIR-CON-10-0020, Rev. NA		
						24590-LAB-PSIR-CON-10-0021, Rev. NA		
						24590-LAB-PSIR-CON-10-0022, Rev. NA		

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						24590-LAB-PSIR-CON-12-0040, Rev. NA 24590-LAB-PSIR-CON-12-0045, Rev. NA 24590-LAB-PSIR-CON-12-0048, Rev. NA 24590-LAB-PSIR-CON-12-0049, Rev. NA 24590-LAB-PSIR-CON-13-0003, Rev. NA 24590-LAB-PSIR-CON-14-0004, Rev. NA 24590-LAB-PSIR-CON-14-0010, Rev. NA	24590-LAB-PSIR-CON-10-0018, Rev. NA LAB-RLD-H00335, LAB-RLD-H00043, LAB-RLD-H00044 24590-LAB-PSIR-CON-10-0019, Rev. NA LAB-RLD-H00028, LAB-RLD-H00396 24590-LAB-PSIR-CON-10-0020, Rev. NA LAB-RLD-H00042 24590-LAB-PSIR-CON-10-0021, Rev. NA LAB-RLD-H00035 24590-LAB-PSIR-CON-10-0022, Rev. NA LAB-RLD-H00024, LAB-RLD-H00025, LAB-RLD-H00026, LAB-RLD-H00027 24590-LAB-PSIR-CON-10-0023, Rev. NA LAB-RLD-H00019, LAB-RLD-H00020, LAB-RLD-H00021, LAB-RLD-H00022, LAB-RLD-H00023 24590-LAB-PSIR-CON-10-0024, Rev. NA LAB-RLD-H00034, LAB-RLD-H00173, LAB-RLD-H00174 24590-LAB-PSIR-CON-10-0026, Rev. NA LAB-RLD-H00134, LAB-RLD-H00399 24590-LAB-PSIR-CON-10-0027, Rev. NA LAB-RLD-H00135, LAB-RLD-H00038 24590-LAB-PSIR-CON-10-0028, Rev. NA LAB-RLD-H00133 24590-LAB-PSIR-CON-10-0029, Rev. NA LAB-RLD-H00124 24590-LAB-PSIR-CON-10-0030, Rev. NA LAB-RLD-H00051 24590-LAB-PSIR-CON-10-0031, Rev. NA LAB-RLD-H00039, LAB-RLD-H00040 24590-LAB-PSIR-CON-10-0032, Rev. NA LAB-RLD-H00181, LAB-RLD-H00182 24590-LAB-PSIR-CON-10-0033, Rev. NA LAB-RLD-H00328 24590-LAB-PSIR-CON-10-0034, Rev. NA LAB-RLD-H00392 24590-LAB-PSIR-CON-10-0035, Rev. NA LAB-RLD-H00168 24590-LAB-PSIR-CON-10-0036, Rev. NA LAB-RLD-H00138 24590-LAB-PSIR-CON-10-0037, Rev. NA LAB-RLD-H00036, LAB-RLD-H00194 24590-LAB-PSIR-CON-10-0039, Rev. NA LAB-RLD-H00388, LAB-RLD-H00389 24590-LAB-PSIR-CON-10-0040, Rev. NA LAB-RLD-H00208 24590-LAB-PSIR-CON-10-0041, Rev. NA LAB-RLD-H00343 24590-LAB-PSIR-CON-10-0042, Rev. NA LAB-RLD-H00030 24590-LAB-PSIR-CON-10-0043, Rev. NA LAB-RLD-H00159	

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Updated in this Rev (Y or Blank)	Requirement Section No. and Title (or requirement source for specialized RVM)	Requirement Text	Verification Method	Responsible Group	Verification Status (Blank, P = partial, C = complete)	Verification Documentation	Verification Discussion	Historical Verification (Y or Blank)
							24590-LAB-PSIR-CON-10-0045, Rev. NA LAB-RLD-H00176, LAB-RLD-H00201 24590-LAB-PSIR-CON-10-0046, Rev. NA LAB-RLD-H00365 24590-LAB-PSIR-CON-10-0047, Rev. NA LAB-RLD-H00327 24590-LAB-PSIR-CON-10-0048, Rev. NA LAB-RLD-H00386 24590-LAB-PSIR-CON-12-0005, Rev. NA LAB-RLD-H00391 24590-LAB-PSIR-CON-12-0028, Rev. NA LAB-RLD-H00002 24590-LAB-PSIR-CON-12-0029, Rev. NA LAB-RLD-H00003 24590-LAB-PSIR-CON-12-0030, Rev. NA LAB-RLD-H00004 24590-LAB-PSIR-CON-12-0031, Rev. NA LAB-RLD-H00005 24590-LAB-PSIR-CON-12-0032, Rev. NA LAB-RLD-H00006 24590-LAB-PSIR-CON-12-0033, Rev. NA LAB-RLD-H00007 24590-LAB-PSIR-CON-12-0034, Rev. NA LAB-RLD-H00008 24590-LAB-PSIR-CON-12-0035, Rev. NA LAB-RLD-H00185 24590-LAB-PSIR-CON-12-0040, Rev. NA LAB-RLD-H00125 24590-LAB-PSIR-CON-12-0045, Rev. NA LAB-RLD-H00028 24590-LAB-PSIR-CON-12-0048, Rev. NA LAB-RLD-H00079 24590-LAB-PSIR-CON-12-0049, Rev. NA LAB-RLD-H00083 24590-LAB-PSIR-CON-13-0003, Rev. NA LAB-RLD-H10003 24590-LAB-PSIR-CON-14-0004, Rev. NA LAB-RLD-H00365 24590-LAB-PSIR-CON-14-0010, Rev. NA LAB-RLD-H00040, LAB-RLD-H00039	
	3.10.1.9.1 Cell Dimensions (A-B003)	The vessel cell (Rm. No. A-B003) dimensions shall be 13 ft. 0 in. by 27 ft. 3 in. and minimum secondary containment liner height is at least 3.8 ft.	R	ENV	C	24590-QL-SRA-MTF5-00001-44-00005, Rev. 00B 24590-QL-SRA-MTF5-00001-44-00006, Rev. 00C 24590-QL-SRA-MTF5-00001-44-00007, Rev. 00B 24590-QL-SRA-MTF5-00001-44-00008, Rev. 00B 24590-QL-SRA-MTF5-00001-44-00009, Rev. 00C 24590-QL-SRA-MTF5-00001-44-00010, Rev. 00C 24590-QL-SRA-MTF5-00001-44-00011, Rev. 00B	The verification documents are supplier as-built drawing illustrating the liner dimensions. 24590-QL-SRA-MTF5-00001-44-00005, CB&I Analytical Laboratory Cells Liner Plate Typ Details, DWG 204 24590-QL-SRA-MTF5-00001-44-00006, CB&I Analytical Laboratory C3 Cell Plan View, DWG 205 24590-QL-SRA-MTF5-00001-44-00007, CB&I Analytical Laboratory C3 Cell Details, DWG 206 24590-QL-SRA-MTF5-00001-44-00008, CB&I Analytical Laboratory C3 Cell Details, DWG 207 24590-QL-SRA-MTF5-00001-44-00009, CB&I Analytical Laboratory C3 Cell Details, DWG 208	

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							24590-QL-SRA-MTF5-00001-44-00010, CB&I Analytical Laboratory C3 Cell Plan View, DWG 209 24590-QL-SRA-MTF5-00001-44-00011, CB&I Analytical Laboratory C3 Cell Details, DWG 210	
Y	**3.10.1.9.2 Secondary Containment System Integrity (RLD-VSL-00164)**	Ensure the secondary containment for the RLD-VSL-00164 tank system, as approved/modified pursuant to Permit Condition III.10.E.9, are free of cracks or gaps to prevent any migration of dangerous and/or mixed waste or accumulated liquid out of the system to the soil, ground water, or surface water at any time that waste is in the tank system.	I	ENV	C	24590-QL-SRA-MTF5-00001-42-00013, Rev. 00B 24590-CM-HC4-W000-00055-60-00004, Rev. 00A 24590-CM-HC4-W000-00055-60-00003, Rev. 00A 24590-QL-SRA-MTF5-00001-42-00051, Rev. 00B 24590-CM-HC4-W000-00055-60-00015, Rev. 00A 24590-CM-HC4-W000-00055-60-00017, Rev. 00A 24590-CM-HC4-W000-00055-60-00008, Rev. 00A 24590-CM-HC4-W000-00055-60-00011, Rev. 00A 24590-CM-HC4-W000-00055-60-00012, Rev. 00A	The verification method here is identified as an inspection. Verification documentation of liner installation inspections by the liner vendor, CB&I, and by Mistras, the independent installation inspector, are provided. These inspections were generally conducted in the 2005 timeframe. 24590-QL-SRA-MTF5-00001-42-00013, LAB QVRP for installation of liner plate in A-B003 C3 Cell 24590-CM-HC4-W000-00055-60-00004, Liner plate installation 24590-CM-HC4-W000-00055-60-00003, Liner plate slope 24590-QL-SRA-MTF5-00001-42-00051, LAB QVRP for installation of liner plate in A-B002 C3 Cell – pump pit 24590-CM-HC4-W000-00055-60-00015, Liner plate installation 24590-CM-HC4-W000-00055-60-00017, Liner plate installation 24590-CM-HC4-W000-00055-60-00008, Liner plate installation 24590-CM-HC4-W000-00055-60-00011, Liner plate installation 24590-CM-HC4-W000-00055-60-00012, Liner plate installation	
	3.10.1.9.3 Construction of Secondary Containment (RLD-VSL-00164)	The RLD-VSL-00164 system secondary containment will be constructed as identified in Table 3- 5, as approved/modified pursuant to Permit Condition III.10.E.9, as specified in Operating Unit Group 10, Appendices 11.2, 11.4 through 11.14, 11.18, of this Permit, as approved pursuant to Permit Conditions III.10.E.9.b., III.10.E.9.c., and III.10.E.9.d. **Table 3-5 RLD-VSL-00164 Secondary Containment Systems, Including Sumps and Floor Drains.** **Sump I.D.# & Room Location:** RLD-SUMP-00041 A-B003 (C3 Effluent Vessel Cell, El. -18 ft. 7 in.) **Maximum Sump Capacity (gallons):** 30 **Sump Type/ Nominal Operating Volume (gallons):** Dry **Sump Dimensions (inches) & Materials of Construction:** 30 in. Dia. X ~13 in. Deep Stainless Steel ------- Dimensions listed are based on permitted design. Actual dimensions may vary within plus or minus (TBD)	R	ENV	C	24590-LAB-P1-60-00007, Rev. 003 24590-LAB-M6-RLD-00002001, Rev. 002 24590-LAB-DB-S13T-00021, Rev. 003 24590-QL-SRA-MTF5-00001-44-00005, Rev. 00B 24590-QL-SRA-MTF5-00001-44-00006, Rev. 00C 24590-QL-SRA-MTF5-00001-44-00007, Rev. 00B 24590-QL-SRA-MTF5-00001-44-00008, Rev. 00B 24590-QL-SRA-MTF5-00001-44-00009, Rev. 00C 24590-QL-SRA-MTF5-00001-44-00010, Rev. 00C 24590-QL-SRA-MTF5-00001-44-00011, Rev. 00B 24590-QL-BPO-DD00-00001-45-00033, Rev. 00B	The verification documents are supplier as-built drawing illustrating the sump dimensions. 24590-LAB-P1-60-00007, Analytical Laboratory General Arrangement Plan and EL (-)19'-2" Sections EE, FF & GG 24590-LAB-M6-RLD-00002001, P&ID Lab Radioactive Liquid Waste Disposal System C3 Collection & Transfer RLD-VSL-00164 24590-LAB-DB-S13T-00021, C2Vault and C3 Cell Structural Concrete Forming Sections and Details (Detail 1) 24590-QL-SRA-MTF5-00001-44-00005, CB&I Analytical Laboratory Cells Liner Plate Typ Details, DWG 204 24590-QL-SRA-MTF5-00001-44-00006, CB&I Analytical Laboratory C3 Cell Plan View, DWG 205 24590-QL-SRA-MTF5-00001-44-00007, CB&I Analytical Laboratory C3 Cell Details, DWG 206	

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							24590-QL-SRA-MTF5-00001-44-00008, CB&I Analytical Laboratory C3 Cell Details, DWG 207 24590-QL-SRA-MTF5-00001-44-00009, CB&I Analytical Laboratory C3 Cell Details, DWG 208 24590-QL-SRA-MTF5-00001-44-00010, CB&I Analytical Laboratory C3 Cell Plan View, DWG 209 24590-QL-SRA-MTF5-00001-44-00011, CB&I Analytical Laboratory C3 Cell Details, DWG 210 24590-QL-BPO-DD00-00001-45-00033, Drawing – Analytical Laboratory C5 Cell Sumps	
Y	**3.10.1.9.3 Construction of Secondary Containment (RLD-VSL-00164)**	The RLD-VSL-00164 system secondary containment will be constructed as identified in Table 3- 5, as approved/modified pursuant to Permit Condition III.10.E.9, as specified in Operating Unit Group 10, Appendices 11.2, 11.4 through 11.14, 11.18, of this Permit, as approved pursuant to Permit Conditions III.10.E.9.b., III.10.E.9.c., and III.10.E.9.d. **Table 3-5 RLD-VSL-00164 Secondary Containment Systems, Including Sumps and Floor Drains.** **Sump I.D.# & Room Location:** RLD-SUMP-00045 A-B002 (C3 Pump Pit Sump, EL -6ft. -8 ½ in. low point) **Maximum Sump Capacity (gallons):** 1.6 **Sump Type/Nominal Operating Volume (gallons):** Dry **Sump Dimensions[a] (inches) & Materials of Construction:** 2ft. X 2ft. -6 in. X ½ in. ------- Dimensions listed are based on permitted design. Actual dimensions may vary within plus or minus (TBD).	R	ENV	C	24590-LAB-P1-60-00007, Rev. 003 24590-LAB-M6-RLD-00002003, Rev. 003 24590-LAB-DB-S13T-00021, Rev. 003 24590-CD-POA-PY00-00009-04-00001, Rev. 00B 24590-QL-SRA-MTF5-00001-44-00005, Rev. 00B 24590-QL-SRA-MTF5-00001-44-00006, Rev. 00C 24590-QL-SRA-MTF5-00001-44-00007, Rev. 00B 24590-QL-SRA-MTF5-00001-44-00008, Rev. 00B 24590-QL-SRA-MTF5-00001-44-00009, Rev. 00C 24590-QL-SRA-MTF5-00001-44-00010, Rev. 00C 24590-QL-SRA-MTF5-00001-44-00011, Rev. 00B 24590-LAB-P1-P23T-00002, Rev.002	The verification documents are supplier as-built drawing illustrating the sump dimensions. 24590-LAB-P1-60-00007, Analytical Laboratory General Arrangement Plan and EL (-)19'-2" Sections EE, FF & GG 24590-LAB-M6-RLD-0002003, P&ID – LAB Radioactive Liquid Waste Disposal System C3 Collection and Transfer RLD-PMP-00182A/B 24590-LAB-DB-S13T-00021, C2Vault and C3 Cell Structural Concrete Forming Sections and Details (Section E) 24590-CD-POA-PY00-00009-04-00001, Columbia Energy, BNI Removable Weir Assembly 24590-QL-SRA-MTF5-00001-44-00005, CB&I Analytical Laboratory Cells Liner Plate Typ Details, DWG 204 24590-QL-SRA-MTF5-00001-44-00006, CB&I Analytical Laboratory C3 Cell Plan View, DWG 205 24590-QL-SRA-MTF5-00001-44-00007, CB&I Analytical Laboratory C3 Cell Details, DWG 206 24590-QL-SRA-MTF5-00001-44-00008, CB&I Analytical Laboratory C3 Cell Details, DWG 207 24590-QL-SRA-MTF5-00001-44-00009, CB&I Analytical Laboratory C3 Cell Details, DWG 208 24590-QL-SRA-MTF5-00001-44-00010, CB&I Analytical Laboratory C3 Cell Plan View, DWG 209 24590-QL-SRA-MTF5-00001-44-00011, CB&I Analytical Laboratory C3 Cell Details, DWG 210 24590-LAB-P1-P23T-00002, Analytical Laboratory Equipment Location Plan EL (-)19'-2" / Area 3 (near column line H2)	
	3.10.1.9.3 Construction of Secondary Containment (RLD-VSL-00164)	The RLD-VSL-00164 system secondary containment will be constructed as identified in Table 3- 5, as approved/modified pursuant to Permit Condition III.10.E.9, as specified in Operating Unit Group 10, Appendices 11.2, 11.4 through	R	ENV	C	24590-LAB-APIR-CON-05-0301, Rev. NA 24590-LAB-P3-RLD-WU02207001, Rev. 001	The RFE initials on the APIR indicate verification of up to 9 different attributes of the installation of this piping including that it is fabricated of 4-inch diameter 316L stainless steel.	

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		11.14, 11.18, of this Permit, as approved pursuant to Permit Conditions III.10.E.9.b., III.10.E.9.c., and III.10.E.9.d. **Table 3-5 RLD-VSL-00164 Secondary Containment Systems, Including Sumps and Floor Drains.** **Sump I.D.# & Room Location:** RLD-WU-02207- S11E-04 A-B003, (C3 Effluent Vessel Cell) **Maximum Sump Capacity (gallons):** N/A **Sump Type/ Nominal Operating Volume (gallons):** N/A **Sump Dimensions (inches) & Materials of Construction:** 4 in. Dia. 316L ------- Dimensions listed are based on permitted design. Actual dimensions may vary within plus or minus (TBD)					This is the drain line from RLD-SUMP-00045 to RLS-VSL-00164. 24590-LAB-APIR-CON-05-0301, LAB-RLD-WU-02207-S11E 24590-LAB-P3-RLD-WU02207001, RLD-WU-02207-S11E-4 – LAB Facility Isometric	
Y	**3.10.1.9.4 Leakage Detection Systems (RLD-VSL-00164)**	The Permittees will install and test all process and leak detection system monitoring/instrumentation, as specified in Table 3-6. **Table 3-6 LAB C3 Laboratory Area Sink Drain Collection Leak Detection System Instruments** **Tank System Name and Locator:** RLD-LDB-00005 A-B003 **Maximum Capacity (gallons):** 6 **Type of Measuring or Leak Detection Instrument:** Thermal Dispersion Level Switch **Approximate Dimensions/Materials of Construction:** 8 in. Dia. x 24 in. Length Stainless Steel (316L)	R	ENV	C	24590-CM-POA-PY00-00003-04-00003, Rev. 00D 24590-WTP-MRR-PROC-0015632, Rev. 000 24590-LAB-M6-RLD-00007001, Rev. 001 24590-LAB-M6-RLD-00002003, Rev. 003 24590-LAB-TVIR-CON-06-0001, Rev. NA 24590-LAB-SEC-E-14-0323, Rev. 000 24590-LAB-ITIR-CON-12-0940, Rev. NA 24590-LAB-ITIR-CON-19-0002, Rev. NA	24590-CM-POA-PY00-00003-04-00003, LAB Secondary Containment Leak Detection Box Shop Assembly – RLD-LDB-00005 24590-WTP-MRR-PROC-0015632, Material Receiving Report, Facility Design Construction, Inc. (RLD-LDB-00005 begins on page 731 of 749) 24590-LAB-M6-RLD-00007001, P&ID – LAB Radioactive Liquid Waste Disposal System C3 Leak Detection Boxes 24590-LAB-M6-RLD-00002003, P&ID – Lab Radioactive Liquid Waste Disposal System C3 Collection and Transfer RLD-PMP-00182A/B 24590-LAB-TVIR-CON-06-0001, Tank/Vessel Inspection Record – RLD-LDB-00005 24590-LAB-SEC-E-14-0323, SETROUTE Equipment Installation Card RLD-LSH-6215 RFE signed the SEC verifying as many as 15 different attributes of the installation of the thermal dispersion level switch in this leak detection box. 24590-LAB-ITIR-CON-12-0940, Instrument and Tubing Inspection Record 24590-LAB-ITIR-CON-19-0002, Rev. NA, Instrument and Tubing Inspection Record The results of start-up testing confirmed all but LAB-RLD-LI-6212 passed met the requirements of 24590-LAB-RPT-ENG-17-009, Test Matrix for the LAB RLD System, Item Reference Number J5 and J6; 24590-LAB-3ZD-RLD-00001, Rev 1, Lab Radioactive Liquid Waste Disposal (RLD) System Design Description, Appendix A: 3.4.2.2.8 Leak Detection System C3/C5. Nonconformance Report 24590-WTP-NCR-MGT-19-1087 was written to revise the set point of RLD-LT-6212 in RLD-SUMP-00045 to meet the leak detection criteria to detect the presence of 0.1 gallons per hour of liquid in the sump. Successful retest of LAB-RLD-LI-6212 was conducted 11/22/2019.	

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Y	**3.10.1.9.4 Leakage Detection Systems (RLD-VSL-00164)**	The Permittees will install and test all process and leak detection system monitoring/instrumentation, as specified in Table 3-6. **Table 3-6 LAB C3 Laboratory Area Sink Drain Collection Leak Detection System Instruments** **Tank System Name and Locator:** RLD-LDB-00006 A-B003 **Maximum Capacity (gallons):** 6 **Type of Measuring or Leak Detection Instrument:** Thermal Dispersion Level Switch **Approximate Dimensions/Materials of Construction:** 8 in. Dia. x 24 in. Length Stainless Steel (316L)	R	ENV	C	24590-CM-POA-PY00-00003-04-00004, Rev. 00D 24590-WTP-MRR-PROC-0015632, Rev. 000 24590-LAB-M6-RLD-00007001, Rev. 001 24590-LAB-M6-RLD-00002003, Rev. 003 24590-LAB-TVIR-CON-06-0002, Rev. NA 24590-LAB-SEC-E-14-0324, Rev. 000 24590-LAB-ITIR-CON-12-0941, Rev. NA	24590-CM-POA-PY00-00003-04-00004, LAB Secondary Containment Leak Detection Box Shop Assembly – RLD-LDB-00006 24590-WTP-MRR-PROC-0015632, Material Receiving Report, Facility Design Construction, Inc. (RLD-LDB-00006 begins on page 734 of 749) 24590-LAB-M6-RLD-00007001, P&ID – LAB Radioactive Liquid Waste Disposal System C3 Leak Detection Boxes 24590-LAB-M6-RLD-00002003, P&ID – Lab Radioactive Liquid Waste Disposal System C3 Collection and Transfer RLD-PMP-00182A/B 24590-LAB-TVIR-CON-06-0002, Tank/Vessel Inspection Record – RLD-LDB-00006 24590-LAB-SEC-E-14-0324, SETROUTE Equipment Installation Card RLD-LSH-6701 24590-LAB-ITIR-CON-12-0941, Instrument and Tubing Inspection Record RFE signed the SEC verifying as many as 15 different attributes of the installation of the thermal dispersion level switch in this leak detection box. The results of start-up testing confirmed all but LAB-RLD-LI-6212 passed the start-up tests in accordance with 24590-LAB-RPT-ENG-17-009, Test Matrix for the LAB RLD System, Item Reference Number J5 and J6; 24590-LAB-3ZD-RLD-00001, Rev 1, Lab Radioactive Liquid Waste Disposal (RLD) System Design Description, Appendix A: 3.4.2.2.8 Leak Detection System C3/C5. Nonconformance Report 24590-WTP-NCR-MGT-19-1087 was written to revise the set point of RLD-LT-6212 in RLD-SUMP-00045 to meet the leak detection criteria to detect the presence of 0.1 gallons per hour of liquid in the sump. Permit change notice 24590-LAB-PCN-ENV-19-004 will be submitted to revise the setpoint in the LAB instrument tables.	
Y	**3.10.1.9.4 Leakage Detection Systems (RLD-VSL-00164)**	The Permittees will install and test all process and leak detection system monitoring/instrumentation, as specified in Table 3-6. **Table 3-6 LAB C3 Laboratory Area Sink Drain Collection Leak Detection System Instruments** **Tank System Name and Locator:** RLD-LDB-00007 A-B003 **Maximum Capacity (gallons):** 6 **Type of Measuring or Leak Detection Instrument:** Thermal Dispersion Level Switch **Approximate Dimensions/Materials of Construction:** 8 in. Dia. x 24 in. Length Stainless Steel (316L)	R	ENV	C	24590-CM-POA-PY00-00003-04-00005, Rev. 00D 24590-WTP-MRR-PROC-0015632, Rev. 000 24590-LAB-M6-RLD-00007001, Rev. 001 24590-LAB-M6-RLD-00002003, Rev. 003 24590-LAB-TVIR-CON-06-0003, Rev. NA 24590-LAB-SEC-E-14-0325, Rev. 000 24590-LAB-ITIR-CON-12-0942, Rev. NA	24590-CM-POA-PY00-00003-04-00005, LAB Secondary Containment Leak Detection Box Shop Assembly – RLD-LDB-00007 24590-WTP-MRR-PROC-0015632, Material Receiving Report, Facility Design Construction, Inc. (RLD-LDB-00007 begins on page 737 of 749) 24590-LAB-M6-RLD-00007001, P&ID – LAB Radioactive Liquid Waste Disposal System C3 Leak Detection Boxes 24590-LAB-M6-RLD-00002003, P&ID – Lab Radioactive Liquid Waste Disposal System C3 Collection and Transfer RLD-PMP-00182A/B24590-LAB-TVIR-CON-06-0003, Tank/Vessel Inspection Record – RLD-LDB-00007 24590-LAB-SEC-E-14-0325, SETROUTE Equipment Installation Card RLD-LSH-6702	

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							24590-LAB-ITIR-CON-12-0942, Instrument and Tubing Inspection Record RFE signed the SEC verifying as many as 15 different attributes of the installation of the thermal dispersion level switch in this leak detection box. The results of start-up testing confirmed all but LAB-RLD-LI-6212 passed the start-up tests in accordance with 24590-LAB-RPT-ENG-17-009, Test Matrix for the LAB RLD System, Item Reference Number J5 and J6; 24590-LAB-3ZD-RLD-00001, Rev 1, Lab Radioactive Liquid Waste Disposal (RLD) System Design Description, Appendix A: 3.4.2.2.8 Leak Detection System C3/C5. Nonconformance Report 24590-WTP-NCR-MGT-19-1087 was written to revise the set point of RLD-LT-6212 in RLD-SUMP-00045 to meet the leak detection criteria to detect the presence of 0.1 gallons per hour of liquid in the sump. Permit change notice 24590-LAB-PCN-ENV-19-004 will be submitted to revise the setpoint in the LAB instrument tables.	
Y	**3.10.1.9.4 Leakage Detection Systems (RLD-VSL-00164)**	The Permittees will install and test all process and leak detection system monitoring/instrumentation, as specified in Table 3-6. **Table 3-6 LAB C3 Laboratory Area Sink Drain Collection Leak Detection System Instruments** **Tank System Name and Locator:** RLD-LDB-00008 A-B003 **Maximum Capacity (gallons):** 6 **Type of Measuring or Leak Detection Instrument:** Thermal Dispersion Level Switch **Approximate Dimensions/Materials of Construction:** 8 in. Dia. x 24 in. Length Stainless Steel (316L)	R	ENV	C	24590-CM-POA-PY00-00003-04-00006, Rev. 00D 24590-WTP-MRR-PROC-0015632, Rev. 000 24590-LAB-M6-RLD-00007001, Rev. 001 24590-LAB-M6-RLD-00002003, Rev. 003 24590-LAB-TVIR-CON-06-0004, Rev. NA 24590-LAB-SEC-E-14-0326, Rev. 000 24590-LAB-ITIR-CON-12-0943, Rev. NA	24590-CM-POA-PY00-00003-04-00006, LAB Secondary Containment Leak Detection Box Shop Assembly – RLD-LDB-00008 24590-WTP-MRR-PROC-0015632, Material Receiving Report, Facility Design Construction, Inc. (RLD-LDB-00008 begins on page 740 of 749) 24590-LAB-M6-RLD-00007001, P&ID – LAB Radioactive Liquid Waste Disposal System C3 Leak Detection Boxes 24590-LAB-TVIR-CON-06-0004, Tank/Vessel Inspection Record – RLD-LDB-00008 24590-LAB-SEC-E-14-0326, SETROUTE Equipment Installation Card 24590-LAB-ITIR-CON-12-0943, Instrument and Tubing Inspection Record RFE signed the SEC verifying as many as 15 different attributes of the installation of the thermal dispersion level switch in this leak detection box. The results of start-up testing confirmed all but LAB-RLD-LI-6212 Upassed the start up tests in accordance with 24590-LAB-RPT-ENG-17-009, Test Matrix for the LAB RLD System, Item Reference Number J5 and J6; 24590-LAB-3ZD-RLD-00001, Rev 1, Lab Radioactive Liquid Waste Disposal (RLD) System Design Description, Appendix A: 3.4.2.2.8 Leak Detection System C3/C5. Nonconformance Report 24590-WTP-NCR-MGT-19-1087 was written to revise the set point of RLD-LT-6212 in RLD-SUMP-00045 to meet the leak detection criteria to detect the presence of 0.1 gallons per hour of liquid in the sump. Permit change notice 24590-LAB-PCN-ENV-19-004 will be submitted to revise the setpoint in the LAB instrument tables.	

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Y	**3.10.1.9.4 Leakage Detection Systems (RLD-VSL-00164)**	The Permittees will install and test all process and leak detection system monitoring/instrumentation, as specified in Table 3-6. **Table 3-6 LAB C3 Laboratory Area Sink Drain Collection Leak Detection System Instruments** **Tank System Name and Locator:** RLD-LDB-00011 A-B003 **Maximum Capacity (gallons):** 6 **Type of Measuring or Leak Detection Instrument:** Thermal Dispersion Level Switch **Approximate Dimensions/Materials of Construction:** 8 in. Dia. x 24 in. Length Stainless Steel (316L)	R	ENV	C	24590-CM-POA-PY00-00003-04-00008, Rev. 00D 24590-WTP-MRR-PROC-0015632, Rev. 000 24590-LAB-M6-RLD-00007001, Rev. 001 24590-LAB-M6-RLD-00002003, Rev. 003 24590-LAB-TVIR-CON-06-0005, Rev. NA 24590-LAB-SEC-E-14-0327, Rev. 000 24590-LAB-ITIR-CON-12-0944, Rev. NA	24590-CM-POA-PY00-00003-04-00008, LAB Secondary Containment Leak Detection Box Shop Assembly – RLD-LDB-00011 24590-WTP-MRR-PROC-0015632, Material Receiving Report, Facility Design Construction, Inc. (RLD-LDB-00011 begins on page 746 of 749) 24590-LAB-M6-RLD-00007001, P&ID – LAB Radioactive Liquid Waste Disposal System C3 Leak Detection Boxes 24590-LAB-TVIR-CON-06-0005, Tank/Vessel Inspection Record – RLD-LDB-00011 24590-LAB-SEC-E-14-0327, SETROUTE Equipment Installation Card RLD-LSH-6704 24590-LAB-ITIR-CON-12-0944, Instrument and Tubing Inspection Record RFE signed the SEC verifying as many as 15 different attributes of the installation of the thermal dispersion level switch in this leak detection box. The results of start-up testing confirmed all but LAB-RLD-LI-6212 Upassed the start up tests in accordance with 24590-LAB-RPT-ENG-17-009, Test Matrix for the LAB RLD System, Item Reference Number J5 and J6; 24590-LAB-3ZD-RLD-00001, Rev 1, Lab Radioactive Liquid Waste Disposal (RLD) System Design Description, Appendix A: 3.4.2.2.8 Leak Detection System C3/C5. Nonconformance Report 24590-WTP-NCR-MGT-19-1087 was written to revise the set point of RLD-LT-6212 in RLD-SUMP-00045 to meet the leak detection criteria to detect the presence of 0.1 gallons per hour of liquid in the sump. Permit change notice 24590-LAB-PCN-ENV-19-004 will be submitted to revise the setpoint in the LAB instrument tables.	
Y	**3.10.1.9.5 Secondary Containment Support (RLD-VSL-00164)**	Secondary containment systems must be at a minimum: • Placed on a foundation or base capable of providing support to the secondary containment system, resistance to pressure gradients above and below the system, and capable of preventing failure due to settlement, compression, or uplift. • Resisting the pressure gradients above and below the system • Preventing failure due to settlement, compression, or uplift	R	ENV	C	24590-CM-HC4-HXYG-00240-02-00005, Rev 00A 24590-WTP-PER-CSA-02-001, Rev. 11, Secondary Containment Design; 24590-LAB-DGC-S13T-00001, Rev. 0, C2 Vault & C3 Cell Concrete Reinforcement Design; 24590-LAB-DGC-S 13T-00003, Rev. 0, C5 Cell Concrete Reinforcement Design. 24590-BOF-BIR-CON-04-031, Rev. NA 24590-LAB-CE-C13T-00001, Rev. 002 24590-LAB-CE-C13T-00002, Rev. 002 24590-LAB-CE-C13T-00003, Rev. 002 24590-LAB-CPC-CON-05-004, Rev. NA 24590-LAB-CPC-CON-05-045, Rev. NA	24590-CM-HC4-HXYG-00240-02-00005, Report IQRPE – IQRPE Structural Integrity Assessment Report for LAB Below Grade Level Secondary Containment The Structural Design Criteria document identifies adequate and appropriate design codes and standards and all applicable load cases from site specific conditions that must be considered in the design. Pressure gradients, static head during a release, physical contact with the waste, climatic conditions, and the stresses of daily operations are adequately stated as design goals in the Basis of Design document. The Secondary Containment Design document describes and provides references for the design methodology, materials, loads, and load combinations (including seismic loads) for the LAB facility secondary containment components. The secondary containments being considered are located in the below ground level cells inside th LAB facility; therefore, they are not subject to vehicular traffic. Applicable pressure gradient due to soil load is considered in the design calculations. The Concrete Reinforcement Design	

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						24590-LAB-CPC-CON-05-046, Rev. NA 24590-LAB-CPC-CON-05-048, Rev. NA 24590-LAB-CPC-CON-05-051, Rev. NA 24590-LAB-FSK-CON-L-04-001, Rev. 007 24590-LAB-FSK-CON-L-04-002, Rev. 003 24590-LAB-CPC-CON-05-073, Rev. NA 24590-LAB-CPC-CON-05-075, Rev. NA 24590-LAB-CPC-CON-05-076, Rev. NA 24590-LAB-CPC-CON-05-077, Rev. NA 24590-LAB-CPC-CON-05-078, Rev. NA 24590-LAB-CPC-CON-05-079, Rev. NA 24590-LAB-CPC-CON-05-080, Rev. NA 24590-LAB-CPC-CON-05-082, Rev. NA 24590-LAB-CPC-CON-06-002, Rev. NA 24590-LAB-CPC-CON-04-016, Rev. NA 24590-LAB-CPC-CON-04-003, Rev. NA 24590-LAB-CPC-CON-04-024, Rev. NA 24590-LAB-CPC-CON-04-009, Rev. NA 24590-LAB-CPC-CON-06-009, Rev. NA 24590-LAB-CPC-CON-04-004, Rev. NA 24590-LAB-CPC-CON-05-041, Rev. NA 24590-LAB-CPC-CON-04-019, Rev. NA 24590-LAB-CPC-CON-04-010, Rev. NA 24590-LAB-CPC-CON-06-005, Rev. NA 24590-LAB-CPC-CON-06-001, Rev. NA 24590-LAB-CPC-CON-11-002, Rev. NA 24590-LAB-CPC-CON-06-005, Rev. NA 24590-LAB-CPC-CON-11-003, Rev. NA 24590-LAB-CPC-CON-05-072, Rev. NA	calculations and drawings show that the foundation slabs and walls are adequately designed to sustain the applicable loads imposed by the RLD-VSL-00164/00165 vessels at the interface Of vessel bottom and top of concrete floor and that of the soil around the cells. The backfill inspection report documents pre-concrete placement site preparation activities. The pour cards document completion of all pre- and post-placement activities including verification of the concrete compressive strength cylinder break test results. Need to further investigate the availability of a report or reports documenting sub grade preparation, prior to placement and compaction of structural fill. 24590-BOF-BIR-CON-04-031, Backfill Inspection Report, Backfill-LAB 24590-LAB-CE-C13T-00001, Analytical Laboratory Excavation Site Plan 24590-LAB-CE-C13T-00002, Analytical Laboratory Excavation Sections 24590-LAB-CE-C13T-00003, Analytical Laboratory Excavation Sections Use the following key plans for the concrete pour locations: 24590-LAB-FSK-CON-L-04-001 and 24590-LAB-FSK-CON-L-04-002 24590-LAB-CPC-CON-05-004, Rev. NA ACC-0009 - LAB ELEV 0 FT -0 IN BASESLAB PLACEMENT LOCATED BETWEEN 1/2.2 LINE AND S TO 4FT -0 IN SOUTH OF Q LINE 24590-LAB-CPC-CON-05-045, Rev. NA ACC-0011 - LAB BASE 3 FT 0 IN BASE SLAB PLACEMENT ELEV 0 FT 0 IN 4.5 TO 2.2 LINE AND BETWEEN R & N LINE 24590-LAB-CPC-CON-05-046, Rev. NA ACC-0013A - LAB BASE SLAB 3 FT -0 IN PLACEMENT TO EL 0 FT 0 IN, 1 FT -0 IN N OF F-LINE TO 9 FT -0 INN OF D-LINE FROM EAST EDGE TO 8 FT -0 IN W OF 2.2-LINE INCLUDING THE NE CORNER OF THE C2 FIRE WATER VAULT WALL UP TO ELEV 0 FT -0 IN 24590-LAB-CPC-CON-05-048, Rev. NA ACC013B - BASE SLAB POUR NE CORNER 24590-LAB-CPC-CON-05-051, Rev. NA ACC-015 LAB BASE SLAB 5 FT 0 IN PLACEMENT TO EL 0 FT 0 IN A LINE TO S OF C LINE FROM WEST EDGE TO 8 FT 0 IN E OF 2 LINE 24590-LAB-CPC-CON-05-073, Rev. NA ACC009B - LAB BASE SLAB 5 FT 0 IN PLACEMENT TO EL 0 FT 0 IN - 3 FT 0 IN S OF K-LINE TO 2 FT 6 IN OF N-LINE AND FROM 1-LINE TO 2 FT 0 IN W OF 2-LINE 24590-LAB-CPC-CON-05-075, Rev. NA ACC-015A - LAB BASE SLAB 5 FEET -00 INCHES PLACEMENT TO EL 0 FEET -00 INCHES N OF F-LINE AND FROM 1 -LINE TO 8 FEET E. OS 2-LINE	

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							24590-LAB-CPC-CON-05-076, Rev. NA ACC-015B - LAB 5 FEET-0INCH THICK BASE SLAB FROM EL (-) 6 FEET-51/2 INCH TO EL 0 FEET-0 INCH, FROM N OF COLUMN LINE 24590-LAB-CPC-CON-05-077, Rev. NA ACC-011A LAB BASE SLAB 3 FT 0 IN PLACEMENT 3 FT 7 IN S OF M LINE TO 2 FT 6 IN S OF N LINE AND 2 FT 0 IN W OF 2 LINE TO 1 FT 6 IN E OF 4.5 LINE 24590-LAB-CPC-CON-05-078, Rev. NA ACC-011B - LAB BASE SLAB 3 FT-0 IN PLACEMENT; 3 FT-7 IN S OF M LINE AND 3 FT-0 IN E OF 2.4 LINE TO 1 FT-6 IN E OF 4.5 LINE 24590-LAB-CPC-CON-05-079, Rev. NA ACC-011C - LAB BASE SLAB 4 FT-0 IN PLACEMENT; 8 FT-5 IN N OF H LINE TO 8 FT-0 IN N OF L LINE AND 2 FT-6 IN E OF 2.7 LINE TO 20 FT-0 IN E OF 3 LINE 24590-LAB-CPC-CON-05-080, Rev. NA ACC-011D - LAB BASE SLAB FROM 3 FT.-0 IN./-5 FT.-0 IN.; FROM 2 FT.2 IN. W OF 2 LINE TO 2 FT.-5 IN. E OF COLUMN LINE 2.7; 8 FT.-5 IN. N OF COLUMN LINE H TO 4 FT-1 IN. S OF COLUMN LINE M, INNER PIT WALL OF C-3 PIT ON E AND S FACES, APPROX. EQUAL TO 8 FT. 24590-LAB-CPC-CON-05-082, Rev. NA ACC-0013 LAB BASE SLAB 3 FT 0 IN PLACEMENT TO EL 0 FT 0 IN 1 FT 0 IN N OF F LINE TO 4 FT 0 IN S OF H LINE FROM EAST EDGE TO 2.2 LINE EAST WALL OF C2 C3 WALL 24590-LAB-CPC-CON-06-002, Rev. NA ACC-011B - LAB BASE SLAB 3FT.-0 IN. PLACEMENT; 4 FT.-0 IN. N OF L-LINE TO 6 FT.-9 IN. N OF H.5-LINE AND 6 FT.-0 IN. W OF 3.5-LINE TO 4.5-LINE 24590-LAB-CPC-CON-04-016, Rev. NA ACC-003B 24590-LAB-CPC-CON-04-003, Rev. NA ACC-003 24590-LAB-CPC-CON-04-024, Rev. NA ACC-003C 24590-LAB-CPC-CON-04-009, Rev. NA ACC-003A 24590-LAB-CPC-CON-06-009, Rev. NA ACC-003D 24590-LAB-CPC-CON-04-004, Rev. NA ACC-004 24590-LAB-CPC-CON-05-041, Rev. NA ACC-017 24590-LAB-CPC-CON-04-019, Rev. NA ACC-004B 24590-LAB-CPC-CON-04-010, Rev. NA ACC-004A 24590-LAB-CPC-CON-06-005, Rev. NA ACC-015C 24590-LAB-CPC-CON-06-001, Rev. NA ACC-018 24590-LAB-CPC-CON-11-002, Rev. NA ACC-011G 24590-LAB-CPC-CON-06-005, Rev. NA ACC-015C	

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							24590-LAB-CPC-CON-11-003, Rev. NA ACC-015D 24590-LAB-CPC-CON-05-072, Rev. NA ACC-009A	
	3.10.1.9.6 Impermeable Coatings (RLD-VSL-00164)	An impermeable coating, as specified in Operating Unit Group 10, Appendices 11.4,11.5, 11.7, 11.9, 11.11, and 11.12 of this Permit, as approved pursuant to Permit Condition III.10.E.9.b.v., will be installed for all concrete containment systems and concrete portions of containment systems for each WTP Unit Tank System listed in Permit Tables III.10.E.D and P that do not have a liner and have construction joints, must meet the requirements of WAC 173-303-640(4)(e)(ii)(C) and -806(4)(c)(vii). The coating will prevent migration of any dangerous and/or mixed waste into the concrete. All coatings will meet the following performance standards: • The coating must seal the containment surface such that no cracks, seams, or other avenues through which liquid could migrate are present; • The coating must be of adequate thickness and strength to withstand the normal operation of equipment and personnel within the given area such that degradation or physical damage to the coating or lining can be identified and remedied before dangerous and/or mixed waste could migrate from the system; and • The coating must be compatible with the dangerous and/or mixed waste, treatment reagents, or other materials managed in the containment system (WAC 173-303-640(4)(e)(ii)(D), WAC 173-303-806(4)(c)(vii)).	R	ENV	C	Not applicable	The cells are not coated, they have stainless steel liners.	
	3.10.1.9.6 Impermeable Coatings (RLD-VSL-00164)	An impermeable coating, as specified in Operating Unit Group 10, Appendices 11.4,11.5, 11.7, 11.9, 11.11, and 11.12 of this Permit, as approved pursuant to Permit Condition III.10.E.9.b.v., will be installed for all concrete containment systems and concrete portions of containment systems for each WTP Unit Tank System listed in Permit Tables III.10.E.D and P that do not have a liner and have construction joints, must meet the requirements of WAC 173-303-640(4)(e)(ii)(C) and -806(4)(c)(vii). The coating will prevent migration of any dangerous and/or mixed waste into the concrete. All coatings will meet the following performance standards: • The coating must seal the containment surface such that no cracks, seams, or other avenues through which liquid could migrate are present; • The coating must be of adequate thickness and strength to withstand the normal operation of equipment and personnel within the given area such that degradation or physical damage to the coating or lining can be identified and remedied before dangerous and/or mixed waste could migrate from the system; and	I	ENV	C	Not applicable	The cells are not coated, they have stainless steel liners.	

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		• The coating must be compatible with the dangerous and/or mixed waste, treatment reagents, or other materials managed in the containment system (WAC 173-303-640(4)(e)(ii)(D), WAC 173-303-806(4)(c)(vii)).						
	3.10.1.10 Vessel (RLD-VSL-00164) Above Ground Piping	Tank system piping shall be constructed of the materials specified in the approved design.	R	ENV	C	24590-LAB-SV-ENV-18-002, Rev. 000	Documents a surveillance to verify that field engineering checked piping materials of construction. 24590-LAB-SV-ENV-18-002, Review of Materials of Construction – Above Ground Piping Inspection Records (APIRs) for the Analytical Laboratory Dangerous Waste Piping - ZZZWECCESH	
Y	**3.10.2.1 Vessel Construction (RLD VSL-00165)**	The RLD-VSL-00165 construction and location shall be in accordance with the locations, dimensions, capacities, material and appurtenances consistent with the DWP permitted design as shown in Table 3-7 **Table 3-7 Analytical Laboratory C5 Effluent Vessel** **Vessel Number/Location:** RLD-VSL-00165 A-B004 **Description:** Hotcell Drain Collection Vessel **Material:** Austenitic stainless steel UNSN08367, with a min. 6% Mo **Total Volume (US Gallons):** 9090 **Approximate Dimensions (Inside Diameter) x Height or Length in feed and inches (tangent line/tangent line):** 16 ft. x 2 ft. 3 in.	R	ENV	C	24590-LAB-P1-60-00007, Rev. 003 24590-QL-POC-MVA0-00008-01-00001, Rev. 00G 24590-WTP-SRR-PROC-0014945, Rev. 001	24590-LAB-P1-60-00007, Analytical Laboratory General Arrangement Plan and EL (-)19'-2" Sections E, F & G 24590-QL-POC-MVA0-00008-01-00001, Premier Technology, Inc. Hot Cell Drain Collection Vessel Assembly, Sections & Details 24590-WTP-SRR-PROC-0014945, Material Receiving Report, Premier Technology, Inc.; RLD-VSL-00165 and components. See Form U-1A Manufacturer's Data Report for Pressure Vessels (page 152 of 386 in the pdf file). Vendor data indicates the tank shell is constructed of SB-688 (N08367). This is a chromium-nickel-molybdenum and iron alloy the specification of which is 20.00 to 22.00 percent chromium, 23.5 to 25.50 percent nickel and 6.00 to 7.00 molybdenum with the remainder mostly iron. See ASTM B688. The manufacturer's data sheet and drawing of record do not specify the overall vessel height, they specify the shell height as 28 ¾" tangent line-to-tangent line.	
	3.10.2.2 Vessels (RLD VSL-00165) Handling and Installation	The installation of the RLD-VSL-00165 permitted vessel shall be performed with proper handling procedures to prevent damage to the system during installation. Prior to covering, enclosing, or placing the Lab RLD tank system or component, an independent, qualified installation inspector or an independent, qualified, registered professional engineer, either of whom is trained and experienced in the proper installation of tank systems or components, must inspect the system as specified in WAC 173-303-640 (3)(c), WAC 173-303-640 (3)(h). • Specify and document the handling or installation procedures to protect the integrity of the tank system. The procedures should prevent or detect the following defects: o weld breaks (WAC 173-303-640 (3)(c)(i)) o punctures (WAC 173-303-640 (3)(c)(ii)) o scrapes of protective coatings (WAC 173-303-640 (3)(c)(iii)) o cracks (WAC 173-303-640 (3)(c)(iv)) o corrosion (WAC 173-303-640 (3)(c)(v)) o other structural damage or inadequate construction or	R	ENV	P	24590-CM-FC4-W000-00001-10-00001, Rev. 00B	24590-CM-FC4-W000-00001-10-00001, Updated Partial Certification Report for LAB RLD System for Subcontract No. 24590-CM-FC4-W000-00001. This document is based on the LAB RLD System Design Description which describes both the Baseline and DFLAW configurations of the WTP. This verification matrix retains requirements for both RLD-VSL-00164 and RLD-VSL-00165 to preserve the verification documentation already completed for the future Baseline certification submittal.	

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		installation (WAC 173-303- 640(3)(c)(vi)) • Specify and document the remedies for any handling or installation procedure discrepancies identified before the tank system is covered, enclosed, or placed in use. (WAC 173-303-640(3)(c))						
	3.10.2.3 System Installation (RLD VSL-00165)	The independent tank system installation inspection and subsequent written statements will be certified pursuant to Permit Condition III.10.E.1.d., comply with all requirements of WAC 173-303-640(3)(h) and will consider, but not be limited to, the following tank system installation documentation: • Field installation report with date of installation; • Approved welding procedures; • Welder qualifications and certification; • Hydro-test reports, as applicable, in accordance with the American Society of Mechanical Engineers Boiler and Pressure Vessel Code, Section VIII, Division 1, American Petroleum Institute (API) Standard 620, or Standard 650 as applicable; • Tester credentials; • Field inspector credentials; • Field inspector reports; • Field waiver reports; and • Non-compliance reports and corrective action (including field waiver reports) and repair reports.	R	ENV	P	24590-CM-FC4-W000-00001-10-00001, Rev. 00B	24590-CM-FC4-W000-00001-10-00001, Updated Partial Certification Report for LAB RLD System for Subcontract No. 24590-CM-FC4-W000-00001. This document is based on the LAB RLD System Design Description which describes both the Baseline and DFLAW configurations of the WTP. This verification matrix retains requirements for both RLD-VSL-00164 and RLD-VSL-00165 to preserve the verification documentation already completed for the future Baseline certification submittal.	
	3.10.2.4 Vapor Collection System (RLD VSL-00165)	The Lab RLD-VSL-00165 tank system is constructed with features that prevent escape of vapors, fumes, or other emissions into the air.	R	ENV	C	24590-LAB-M6-RLD-00001001, Rev. 001 24590-LAB-M8-C5V-00001003, Rev. 003	24590-LAB-M6-RLD-00001001, P&ID – LAB Radioactive Liquid Waste Disposal System C5 Collection and Transfer RLD-VSL-00165 24590-LAB-M8-C5V-00001003, Analytical Laboratory V&ID Inbleed, Hotcell, & RLD Vessel C5V Exhaust RLD-VSL-00165 is vented via line RLD-GV-02201-S11B-06 as illustrated on the P&ID and V&KD referenced above.	
	3.10.2.5 Tightness Testing (RLD VSL-00165)	The Permittees must test for tightness for the RLD-VSL-00165 and ancillary equipment prior to these components being covered, enclosed, or placed into use. If a tank system is found not to be tight, all repairs necessary to remedy the leak(s) in the system must be performed prior to the tank system being covered, enclosed, or placed in use.	R	ENV	P	24590-CM-FC4-W000-00001-10-00001, Rev. 00B	24590-CM-FC4-W000-00001-10-00001, Updated Partial Certification Report for LAB RLD System for Subcontract No. 24590-CM-FC4-W000-00001. A partial certification report has been prepared and it is for this tank system, its associated ancillary equipment and secondary containment.	
Y	**3.10.2.6 Spill and Overflow Prevention Controls (RLD-VSL-00165)**	RLD-VSL-00165 shall be constructed with the appropriate instrumentation to allow for the control and prevention of overflow from the tank or containment systems. See Table 3-8 for the overflow instruments. **Table 3-8 Associated Instruments for LAB RLD-VSL-0165** **Monitoring/Control Parameter:** Level Measurement for RLD-VSL-00165 **Type of Instrument/Control Device:** Level Interlock	R	ENV	C	24590-LAB-M6-RLD-00001001, Rev. 001 24590-LAB-ITIR-CON-14-0148, Rev. NA 24590-LAB-APIR-CON-09-0055, Rev. NA	24590-LAB-M6-RLD-00001001, P&ID – LAB Radioactive Liquid Waste Disposal System C5 Collection and Transfer RLD-VSL-00165 24590-LAB-ITIR-CON-14-0148, Instrument and Tubing Inspection Record. 24590-LAB-APIR-CON-09-0055, Aboveground Piping Inspection Record RFE initialed the APIR verifying that all components illustrated on 24590-LAB-P3-RLD-GR00043001 had been installed, this included LE-6104.	

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Updated in this Rev (Y or Blank)	Requirement Section No. and Title (or requirement source for specialized RVM)	Requirement Text	Verification Method	Responsible Group	Verification Status (Blank, P = partial, C = complete)	Verification Documentation	Verification Discussion	Historical Verification (Y or Blank)
		Instrument/Control Device Tag Number: RLD-LSHH-6104A						
	3.10.2.6 Spill and Overflow Prevention Controls (RLD-VSL-00165)	RLD-VSL-00165 shall be constructed with the appropriate instrumentation to allow for the control and prevention of overflow from the tank or containment systems. See Table 3-8 for the overflow instruments. **Table 3-8 Associated Instruments for LAB RLD-VSL-0165** **Monitoring/Control Parameter:** Level Measurement for RLD-VSL-00165 **Type of Instrument/Control Device:** Level Transmitter **Instrument/Control Device Tag Number:** LT-6104	R	ENV	C	24590-LAB-M6-RLD-00001001, Rev. 001 24590-LAB-SEC-E-14-0249, Rev. 000	24590-LAB-M6-RLD-00001001, P&ID – LAB Radioactive Liquid Waste Disposal System C5 Collection and Transfer RLD-VSL_00165 24590-LAB-SEC-E-14-0249, SETROUTE Equipment Installation Card RFE signed the SEC verifying as many as 15 different attributes of the installation of LT-6104 in accordance with the design documents referenced on the installation card.	
Y	**3.10.2.6 Spill and Overflow Prevention Controls (RLD-VSL-00165)**	RLD-VSL-00165 shall be constructed with the appropriate instrumentation to allow for the control and prevention of overflow from the tank or containment systems. See Table 3-8 for the overflow instruments. **Table 3-8 Associated Instruments for LAB RLD-VSL-0165** **Monitoring/Control Parameter:** Level Measurement for RLD-VSL-00165 **Type of Instrument/Control Device:** Level Indicator **Instrument/Control Device Tag Number:** LI-6104A	R	ENV	C	24590-LAB-M6-RLD-00001001, Rev. 001 24590-LAB-PISW-J-08-0001-01, Rev. 10	24590-LAB-M6-RLD-00001001, P&ID – LAB Radioactive Liquid Waste Disposal System C5 Collection and Transfer RLD-VSL_00165 24590-LAB-PISW-J-08-0001-01, System Design Document for LAB Facility (see page 515 of 1692 for control system screenshot of this indicator) identified as LI-6104A. PISW illustrates the indicator is implemented in the control system.	
	3.10.2.6 Spill and Overflow Prevention Controls (RLD-VSL-00165)	RLD-VSL-00165 shall be constructed with the appropriate instrumentation to allow for the control and prevention of overflow from the tank or containment systems. See Table 3-8 for the overflow instruments. **Table 3-8 Associated Instruments for LAB RLD-VSL-0165** **Monitoring/Control Parameter:** Level Measurement for RLD-SUMP-00042 **Type of Instrument/Control Device:** Level Transmitter **Instrument/Control Device Tag Number:** LT-6115	R	ENV	C	24590-LAB-M6-RLD-00001001, Rev. 001 24590-LAB-SEC-E-14-0250, Rev. 000	24590-LAB-M6-RLD-00001001, P&ID – LAB Radioactive Liquid Waste Disposal System C5 Collection and Transfer RLD-VSL_00165 24590-LAB-SEC-E-14-0250, SETROUTE Equipment Installation Card RFE signed the SEC verifying as many as 15 different attributes of the installation of LT-6115 in accordance with the design documents referenced on the installation card.	
	3.10.2.6 Spill and Overflow Prevention Controls (RLD-VSL-00165)	RLD-VSL-00165 shall be constructed with the appropriate instrumentation to allow for the control and prevention of overflow from the tank or containment systems. See Table 3-8 for the overflow instruments. **Table 3-8 Associated Instruments for LAB RLD-VSL-0165** **Monitoring/Control Parameter:** Level Measurement for RLD-SUMP-00042 **Type of Instrument/Control Device:** Level Indicator **Instrument/Control Device Tag Number:** LI-6115	R	ENV	C	24590-LAB-M6-RLD-00001001, Rev. 001 24590-LAB-PISW-J-08-0001-01, Rev. 10	24590-LAB-M6-RLD-00001001, P&ID – LAB Radioactive Liquid Waste Disposal System C5 Collection and Transfer RLD-VSL_00165 24590-LAB-PISW-J-08-0001-01, System Design Document for LAB Facility (see page 515 of 1692 for control system screenshot of this indicator) PISW illustrates the indicator is implemented in the control system.	
	3.10.2.6 Spill and Overflow Prevention Controls (RLD-VSL-00165)	RLD-VSL-00165 shall be constructed with the appropriate instrumentation to allow for the control and prevention of overflow from the tank or containment systems. See Table 3-8 for the overflow instruments. **Table 3-8 Associated Instruments for LAB RLD-VSL-0165** **Monitoring/Control Parameter:** Level Measurement for RLD-SUMP-00042	R	ENV	P	24590-LAB-M6-RLD-00001001, Rev. 001 24590-LAB-PISW-J-08-0001-01, Rev. 10	24590-LAB-M6-RLD-00001001, P&ID – LAB Radioactive Liquid Waste Disposal System C5 Collection and Transfer RLD-VSL_00165 24590-LAB-PISW-J-08-0001-01, System Design Document for LAB Facility (see page 515 of 1692 for control system screenshot of this indicator) identified as LKI-6115. PISW illustrates the indicator is implemented in the control system.	

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Updated in this Rev (Y or Blank)	Requirement Section No. and Title (or requirement source for specialized RVM)	Requirement Text	Verification Method	Responsible Group	Verification Status (Blank, P = partial, C = complete)	Verification Documentation	Verification Discussion	Historical Verification (Y or Blank)
		Type of Instrument/Control Device: Leak Rate **Instrument/Control Device Tag Number:** LKY-6115					Partial pending completion of a permit modification to revise the equipment and instrument tables.	
	3.10.2.6 Spill and Overflow Prevention Controls (RLD-VSL-00165)	RLD-VSL-00165 shall be constructed with the appropriate instrumentation to allow for the control and prevention of overflow from the tank or containment systems. See Table 3-8 for the overflow instruments. **Table 3-8 Associated Instruments for LAB RLD-VSL-0165** **Monitoring/Control Parameter:** Level Measurement for RLD-SUMP-00043A **Type of Instrument/Control Device:** Level Transmitter **Instrument/Control Device Tag Number:** LT-6116	R	ENV	C	24590-LAB-M6-RLD-00001002, Rev. 001 24590-LAB-SEC-E-14-0251, Rev. 000	24590-LAB-M6-RLD-00001002, P&ID – LAB Radioactive Liquid Waste Disposal System C5 Collection and Transfer RLD-PMP-00183A 24590-LAB-SEC-E-14-0251, SETROUTE Equipment Installation Card RFE signed the SEC verifying as many as 15 different attributes of the installation of LT-6116 in accordance with the design documents referenced on the installation card.	
	3.10.2.6 Spill and Overflow Prevention Controls (RLD-VSL-00165)	RLD-VSL-00165 shall be constructed with the appropriate instrumentation to allow for the control and prevention of overflow from the tank or containment systems. See Table 3-8 for the overflow instruments. **Table 3-8 Associated Instruments for LAB RLD-VSL-0165** **Monitoring/Control Parameter:** Level Measurement for RLD-SUMP-00043A **Type of Instrument/Control Device:** Level Indicator **Instrument/Control Device Tag Number:** LI-6116	R	ENV	C	24590-LAB-M6-RLD-00001002, Rev. 001 24590-LAB-PISW-J-08-0001-01, Rev. 10	24590-LAB-M6-RLD-00001002, P&ID – LAB Radioactive Liquid Waste Disposal System C5 Collection and Transfer RLD-PMP-00183A 24590-LAB-PISW-J-08-0001-01, System Design Document for LAB Facility (see page 515 of 1692 for control system screenshot of this indicator) PISW illustrates the indicator is implemented in the control system.	
	3.10.2.6 Spill and Overflow Prevention Controls (RLD-VSL-00165)	RLD-VSL-00165 shall be constructed with the appropriate instrumentation to allow for the control and prevention of overflow from the tank or containment systems. See Table 3-8 for the overflow instruments. **Table 3-8 Associated Instruments for LAB RLD-VSL-0165** **Monitoring/Control Parameter:** Level Measurement for RLD-SUMP-00043B **Type of Instrument/Control Device:** Level Transmitter **Instrument/Control Device Tag Number:** LT-6124	R	ENV	C	24590-LAB-M6-RLD-00001003, Rev. 001 24590-LAB-SEC-E-14-0253, Rev. 000	24590-LAB-M6-RLD-00001003, P&ID – LAB Radioactive Liquid Waste Disposal System C5 Collection and Transfer RLD-PMP-00183B 24590-LAB-SEC-E-14-0253, SETROUTE Equipment Installation Card RFE signed the SEC verifying as many as 15 different attributes of the installation of LT-6124 in accordance with the design documents referenced on the installation card.	
	3.10.2.6 Spill and Overflow Prevention Controls (RLD-VSL-00165)	RLD-VSL-00165 shall be constructed with the appropriate instrumentation to allow for the control and prevention of overflow from the tank or containment systems. See Table 3-8 for the overflow instruments. **Table 3-8 Associated Instruments for LAB RLD-VSL-0165** **Monitoring/Control Parameter:** Level Measurement for RLD-SUMP-00043B **Type of Instrument/Control Device:** Level Indicator **Instrument/Control Device Tag Number:** LI-6124	R	ENV	C	24590-LAB-M6-RLD-00001003, Rev. 001 24590-LAB-PISW-J-08-0001-01, Rev. 10	24590-LAB-M6-RLD-00001003, P&ID – LAB Radioactive Liquid Waste Disposal System C5 Collection and Transfer RLD-PMP-00183B 24590-LAB-PISW-J-08-0001-01, System Design Document for LAB Facility (see page 515 of 1692 for control system screenshot of this indicator) PISW illustrates the indicator is implemented in the control system.	
	3.10.2.6 Spill and Overflow Prevention Controls (RLD-VSL-00165)	RLD-VSL-00165 shall be constructed with the appropriate instrumentation to allow for the control and prevention of overflow from the tank or containment systems. See Table 3-8 for the overflow instruments. **Table 3-8 Associated Instruments for LAB RLD-VSL-0165** **Monitoring/Control Parameter:** Level Measurement for RLD-SUMP-00044	R	ENV	C	24590-LAB-M6-RLD-00001004, Rev. 001 24590-LAB-SEC-E-14-0252, Rev. 000	24590-LAB-M6-RLD-00001004, P&ID – LAB Radioactive Liquid Waste Disposal System C5 Collection and Transfer Valve Pit 24590-LAB-SEC-E-14-0252, SETROUTE Equipment Installation Card RFE signed the SEC verifying as many as 15 different attributes of the installation of LT-6123 in accordance with the design documents referenced on the installation card.	

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Updated in this Rev (Y or Blank)	Requirement Section No. and Title (or requirement source for specialized RVM)	Requirement Text	Verification Method	Responsible Group	Verification Status (Blank, P = partial, C = complete)	Verification Documentation	Verification Discussion	Historical Verification (Y or Blank)
		Type of Instrument/Control Device: Level Transmitter **Instrument/Control Device Tag Number:** LT-6123						
	3.10.2.6 Spill and Overflow Prevention Controls (RLD-VSL-00165)	RLD-VSL-00165 shall be constructed with the appropriate instrumentation to allow for the control and prevention of overflow from the tank or containment systems. See Table 3-8 for the overflow instruments. **Table 3-8 Associated Instruments for LAB RLD-VSL-0165** **Monitoring/Control Parameter:** Level Measurement for RLD-SUMP-00044 **Type of Instrument/Control Device:** Level Indicator **Instrument/Control Device Tag Number:** LI-6123	R	ENV	C	24590-LAB-M6-RLD-00001004, Rev. 001 24590-LAB-PISW-J-08-0001-01, Rev. 10	24590-LAB-M6-RLD-00001004, P&ID – LAB Radioactive Liquid Waste Disposal System C5 Collection and Transfer Valve Pit 24590-LAB-PISW-J-08-0001-01, System Design Document for LAB Facility (see page 515 of 1692 for control system screenshot of this indicator) PISW illustrates the indicator is implemented in the control system.	
	3.10.2.6 Spill and Overflow Prevention Controls (RLD-VSL-00165)	RLD-VSL-00165 shall be constructed with the appropriate instrumentation to allow for the control and prevention of overflow from the tank or containment systems. See Table 3-8 for the overflow instruments. **Table 3-8 Associated Instruments for LAB RLD-VSL-0165** **Monitoring/Control Parameter:** Level Measurement for RLD-LDB-00002 **Type of Instrument/Control Device:** Level High Switch **Instrument/Control Device Tag Number:** LSH-6120	R	ENV	C	24590-LAB-M6-RLD-00008001, Rev. 000 24590-LAB-SEC-E-14-0322, Rev. 000 24590-LAB-ITIR-CON-12-0939, Rev. NA	24590-LAB-M6-RLD-00008001, P&ID – LAB Radioactive Liquid Waste Disposal System C5 Leak Detection Boxes 24590-LAB-SEC-E-14-0322, SETROUTE Equipment Installation Card 24590-LAB-ITIR-CON-12-0939, Instrument and Tubing Inspection Record RFE signed the SEC verifying as many as 15 different attributes of the installation of LSH-6120 in accordance with the design documents referenced on the installation card.	
	3.10.2.6 Spill and Overflow Prevention Controls (RLD-VSL-00165)	RLD-VSL-00165 shall be constructed with the appropriate instrumentation to allow for the control and prevention of overflow from the tank or containment systems. See Table 3-8 for the overflow instruments. **Table 3-8 Associated Instruments for LAB RLD-VSL-0165** **Monitoring/Control Parameter:** Level Measurement for RLD-LDB-00002 **Type of Instrument/Control Device:** Level High Alarm **Instrument/Control Device Tag Number:** LAH-6120	R	ENV	C	24590-LAB-M6-RLD-00008001, Rev. 000 24590-LAB-PISW-J-08-0001-01, Rev. 10	24590-LAB-M6-RLD-00008001, P&ID – LAB Radioactive Liquid Waste Disposal System C5 Leak Detection Boxes 24590-LAB-PISW-J-08-0001-01, System Design Document for LAB Facility (see page 515 of 1692 for control system screenshot of this alarm) PISW illustrates the alarm is implemented in the control system.	
	3.10.2.6 Spill and Overflow Prevention Controls (RLD-VSL-00165)	RLD-VSL-00165 shall be constructed with the appropriate instrumentation to allow for the control and prevention of overflow from the tank or containment systems. See Table 3-8 for the overflow instruments. **Table 3-8 Associated Instruments for LAB RLD-VSL-0165** **Monitoring/Control Parameter:** Level Measurement for RLD-LDB-00004 **Type of Instrument/Control Device:** Level High Switch **Instrument/Control Device Tag Number:** LSH-6118	R	ENV	C	24590-LAB-M6-RLD-00008001, Rev. 000 24590-LAB-SEC-E-14-0321, Rev. 000 24590-LAB-ITIR-CON-12-0938, Rev. NA	24590-LAB-M6-RLD-00008001, P&ID – LAB Radioactive Liquid Waste Disposal System C5 Leak Detection Boxes 24590-LAB-SEC-E-14-0321, SETROUTE Equipment Installation Card 24590-LAB-ITIR-CON-12-0938, Instrument and Tubing Inspection Record RFE signed the SEC verifying as many as 15 different attributes of the installation of LSH-6118 in accordance with the design documents referenced on the installation card.	
	3.10.2.6 Spill and Overflow Prevention Controls (RLD-VSL-00165)	RLD-VSL-00165 shall be constructed with the appropriate instrumentation to allow for the control and prevention of overflow from the tank or containment systems. See Table 3-8 for the overflow instruments. **Table 3-8 Associated Instruments for LAB RLD-VSL-0165** **Monitoring/Control Parameter:** Level Measurement for RLD-LDB-00004	R	ENV	C	24590-LAB-M6-RLD-00008001, Rev. 000 24590-LAB-PISW-J-08-0001-01, Rev. 10	24590-LAB-M6-RLD-00008001, P&ID – LAB Radioactive Liquid Waste Disposal System C5 Leak Detection Boxes 24590-LAB-PISW-J-08-0001-01, System Design Document for LAB Facility (see page 515 of 1692 for control system screenshot of this alarm) PISW illustrates the alarm is implemented in the control system.	

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		Type of Instrument/Control Device: Level High Alarm **Instrument/Control Device Tag Number:** LAB -6118						
	3.10.2.6 Spill and Overflow Prevention Controls (RLD-VSL-00165)	RLD-VSL-00165 shall be constructed with the appropriate instrumentation to allow for the control and prevention of overflow from the tank or containment systems. See Table 3-8 for the overflow instruments. **Table 3-8 Associated Instruments for LAB RLD-VSL-0165** **Monitoring/Control Parameter:** Level Measurement for RLD-LDB-00009 **Type of Instrument/Control Device:** Level High Switch **Instrument/Control Device Tag Number:** LSH-6801	R	ENV	C	24590-LAB-M6-RLD-00008001, Rev. 000 24590-LAB-SEC-E-14-0328, Rev. 000 24590-LAB-ITIR-CON-12-0945, Rev. NA	24590-LAB-M6-RLD-00008001, P&ID – LAB Radioactive Liquid Waste Disposal System C5 Leak Detection Boxes 24590-LAB-SEC-E-14-0328, SETROUTE Equipment Installation Card 24590-LAB-ITIR-CON-12-0945, Instrument and Tubing Inspection Record RFE signed the SEC verifying as many as 15 different attributes of the installation of LSH-6801 in accordance with the design documents referenced on the installation card.	
	3.10.2.6 Spill and Overflow Prevention Controls (RLD-VSL-00165)	RLD-VSL-00165 shall be constructed with the appropriate instrumentation to allow for the control and prevention of overflow from the tank or containment systems. See Table 3-8 for the overflow instruments. **Table 3-8 Associated Instruments for LAB RLD-VSL-0165** **Monitoring/Control Parameter:** Level Measurement for RLD-LDB-00009 **Type of Instrument/Control Device:** Level High Alarm **Instrument/Control Device Tag Number:** LAH-6801	R	ENV	C	24590-LAB-M6-RLD-00008001, Rev. 000 24590-LAB-PISW-J-08-0001-01, Rev. 10	24590-LAB-M6-RLD-00008001, P&ID – LAB Radioactive Liquid Waste Disposal System C5 Leak Detection Boxes 24590-LAB-PISW-J-08-0001-01, System Design Document for LAB Facility (see page 515 of 1692 for control system screenshot of this alarm) PISW illustrates the alarm is implemented in the control system.	
	3.10.2.7 Corrosion Protection (RLD VSL-00165)	The Permittees must provide the type and degree of corrosion protection for RLD-VSL-00165 recommended by an independent corrosion expert, based on the information provided in Operating Unit Group 10, Appendices 11.9, and 11.11 of this Permit, as approved pursuant to Permit Conditions III.10.E.9.b.i., III.10.E.9.b.iv., III.10.E.9.b.v., III.10.E.9.c.i., III.10.E.9.c.iv., III.10.E.9.c.v., III.10.E.9.d.i., III.10.E.9.d.iv., and III.10.E.9.d.v. or other corrosion protection if the Ecology believes other corrosion protection is necessary to ensure the integrity of the tank system during use of the tank system. The installation of a corrosion protection system that is field fabricated must be supervised by an independent corrosion expert to ensure proper installation.	R	ENV	C	Not applicable	This requirement is not applicable to the LAB RLD-VSL-00165 tank system as there are no components of the tank system that are in contact with soil or with water.	
Y	**3.10.2.8 Support and Protect Ancillary Equipment**	RLD-VSL-00165 ancillary equipment shall be supported and protected against physical damage and excessive stress due to settlement, vibration, expansion, or contraction. (WAC 173-303-640(3)(f)).	R	ENV	C	24590-CM-HC4-HXYG-00240-02-00015, Rev A 24590-LAB-PSIR-CON-05-0011, Rev. NA 24590-LAB-PSIR-CON-05-0012, Rev. NA 24590-LAB-PSIR-CON-05-0019, Rev. NA 24590-LAB-PSIR-CON-05-0020, Rev. NA 24590-LAB-PSIR-CON-05-0021, Rev. NA 24590-LAB-PSIR-CON-05-0022, Rev. NA 24590-LAB-PSIR-CON-05-0028, Rev. NA 24590-LAB-PSIR-CON-05-0029, Rev. NA	This list of inspection records includes support for DWP piping and non-DWP piping in the RLD system. To determine if the piping is DWP or not, review the Parent ID No. on the form and the referenced Isometric drawing number to determine the piping fluid code. The RFE initials the PSIRs verifying up to 9 different attributes of the pipe support installation verifying that RLD-VSL-00165 ancillary equipment is supported and protected against physical damage and excessive stress due to settlement, vibration, expansion or contraction. 24590-LAB-PSIR-CON-05-0011, Rev. NA LAB-RLD-H00186, LAB-RLD-H00187, LAB-RLD-H00188, LAB-RLD-H00189 24590-LAB-PSIR-CON-05-0012, Rev. NA LAB-RLD-H00198, LAB-RLD-H00199	

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						24590-LAB-PSIR-CON-05-0036, Rev. NA	24590-LAB-PSIR-CON-05-0019, Rev. NA LAB-RLD-H00166	
						24590-LAB-PSIR-CON-05-0044, Rev. NA	24590-LAB-PSIR-CON-05-0020, Rev. NA LAB-RLD-H00152	
						24590-LAB-PSIR-CON-05-0114, Rev. NA	24590-LAB-PSIR-CON-05-0021, Rev. NA LAB-RLD-H000167	
						24590-LAB-PSIR-CON-05-0122, Rev. NA	24590-LAB-PSIR-CON-05-0022, Rev. NA LAB-RLD-H00163	
						24590-LAB-PSIR-CON-05-0129, Rev. NA	24590-LAB-PSIR-CON-05-0028, Rev. NA LAB-RLD-H00162	
						24590-LAB-PSIR-CON-07-0414, Rev. NA	24590-LAB-PSIR-CON-05-0029, Rev. NA LAB-RLD-H00164	
						24590-LAB-PSIR-CON-08-0257, Rev. NA	24590-LAB-PSIR-CON-05-0036, Rev. NA LAB-RLD-H00210	
						24590-LAB-PSIR-CON-08-0296, Rev. NA	24590-LAB-PSIR-CON-05-0044, Rev. NA LAB-RLD-H00160	
						24590-LAB-PSIR-CON-08-0373, Rev. NA	24590-LAB-PSIR-CON-05-0114, Rev. NA 24590-LAB-RLD-H00158	
						24590-LAB-PSIR-CON-09-0026, Rev. NA	24590-LAB-PSIR-CON-05-0122, Rev. NA LAB-RLD-H00171	
						24590-LAB-PSIR-CON-09-0028, Rev. NA	24590-LAB-PSIR-CON-05-0129, Rev. NA LAB-RLD-H00179	
						24590-LAB-PSIR-CON-09-0029, Rev. NA	24590-LAB-PSIR-CON-07-0414, Rev. NA LAB-RLD-H10003	
						24590-LAB-PSIR-CON-09-0030, Rev. NA	24590-LAB-PSIR-CON-08-0257, Rev. NA LAB-RLD-H10002	
						24590-LAB-PSIR-CON-09-0031, Rev. NA	24590-LAB-PSIR-CON-08-0296, Rev. NA 24590-LAB-RLD-H10006	
						24590-LAB-PSIR-CON-09-0032, Rev. NA	24590-LAB-PSIR-CON-08-0373, Rev. NA LAB-RLD-H10004	
						24590-LAB-PSIR-CON-09-0033, Rev. NA	24590-LAB-PSIR-CON-09-0026, Rev. NA LAB-RLD-H10005	
						24590-LAB-PSIR-CON-09-0034, Rev. NA	24590-LAB-PSIR-CON-09-0028, Rev. NA LAB-RLD-H00153	
						24590-LAB-PSIR-CON-09-0035, Rev. NA	24590-LAB-PSIR-CON-09-0029, Rev. NA LAB-RLD-H00190, H00191	
						24590-LAB-PSIR-CON-09-0036, Rev. NA	24590-LAB-PSIR-CON-09-0030, Rev. NA LAB-RLD-H00072	
						24590-LAB-PSIR-CON-09-0037, Rev. NA	24590-LAB-PSIR-CON-09-0031, Rev. NA LAB-RLD-H00054	
						24590-LAB-PSIR-CON-09-0038, Rev. NA	24590-LAB-PSIR-CON-09-0032, Rev. NA LAB-RLD-H00009, H00010, H00011, H00012, H00013	
						24590-LAB-PSIR-CON-09-0039, Rev. NA	24590-LAB-PSIR-CON-09-0033, Rev. NA LAB-RLD-H00112, H00113, H00114, H00326	
						24590-LAB-PSIR-CON-09-0040, Rev. NA	24590-LAB-PSIR-CON-09-0034, Rev. NA LAB-RLD-H00340, H00342	
						24590-LAB-PSIR-CON-09-0041, Rev. NA	24590-LAB-PSIR-CON-09-0035, Rev. NA LAB-RLD-H00151	
						24590-LAB-PSIR-CON-09-0042, Rev. NA	24590-LAB-PSIR-CON-09-0036, Rev. NA LAB-RLD-H00107, LAB-RLD-H00108	
						24590-LAB-PSIR-CON-09-0043, Rev. NA	24590-LAB-PSIR-CON-09-0037, Rev. NA LAB-RLD-H00104, LAB-RLD-H00149, LAB-RLD-H00157	
						24590-LAB-PSIR-CON-09-0044, Rev. NA	24590-LAB-PSIR-CON-09-0038, Rev. NA LAB-RLD-H00092, LAB-RLD-H00096	
						24590-LAB-PSIR-CON-09-0045, Rev. NA	24590-LAB-PSIR-CON-09-0039, Rev. NA LAB-RLD-H00109	
						24590-LAB-PSIR-CON-09-0046, Rev. NA		
						24590-LAB-PSIR-CON-09-0047, Rev. NA		
						24590-LAB-PSIR-CON-09-0048, Rev. NA		
						24590-LAB-PSIR-CON-09-0049, Rev. NA		

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						24590-LAB-PSIR-CON-09-0050, Rev. NA 24590-LAB-PSIR-CON-09-0051, Rev. NA 24590-LAB-PSIR-CON-09-0052, Rev. NA 24590-LAB-PSIR-CON-09-0053, Rev. NA 24590-LAB-PSIR-CON-09-0054, Rev. NA 24590-LAB-PSIR-CON-09-0055, Rev. NA 24590-LAB-PSIR-CON-09-0056, Rev. NA 24590-LAB-PSIR-CON-09-0057, Rev. NA 24590-LAB-PSIR-CON-10-0003, Rev. NA 24590-LAB-PSIR-CON-10-0004, Rev. NA 24590-LAB-PSIR-CON-10-0005, Rev. NA 24590-LAB-PSIR-CON-10-0006, Rev. NA 24590-LAB-PSIR-CON-10-0007, Rev. NA 24590-LAB-PSIR-CON-10-0008, Rev. NA 24590-LAB-PSIR-CON-10-0010, Rev. NA 24590-LAB-PSIR-CON-10-0011, Rev. NA 24590-LAB-PSIR-CON-10-0012, Rev. NA 24590-LAB-PSIR-CON-10-0013, Rev. NA 24590-LAB-PSIR-CON-10-0014, Rev. NA 24590-LAB-PSIR-CON-10-0015, Rev. NA 24590-LAB-PSIR-CON-10-0016, Rev. NA 24590-LAB-PSIR-CON-10-0017, Rev. NA 24590-LAB-PSIR-CON-10-0018, Rev. NA 24590-LAB-PSIR-CON-10-0019, Rev. NA 24590-LAB-PSIR-CON-10-0020, Rev. NA 24590-LAB-PSIR-CON-10-0021, Rev. NA 24590-LAB-PSIR-CON-10-0022, Rev. NA 24590-LAB-PSIR-CON-10-0023, Rev. NA 24590-LAB-PSIR-CON-10-0024, Rev. NA 24590-LAB-PSIR-CON-10-0026, Rev. NA 24590-LAB-PSIR-CON-10-0027, Rev. NA 24590-LAB-PSIR-CON-10-0028, Rev. NA	24590-LAB-PSIR-CON-09-0040, Rev. NA LAB-RLD-H00093, LAB-RLD-H00094, LAB-RLD-H00115 24590-LAB-PSIR-CON-09-0041, Rev. NA LAB-RLD-H00050, LAB-RLD-H00098, LAB-RLD-H00099, LAB-RLD-H00394, LAB-RLD-H00395 24590-LAB-PSIR-CON-09-0042, Rev. NA LAB-RLD-H00105, LAB-RLD-H00393 24590-LAB-PSIR-CON-09-0043, Rev. NA LAB-RLD-H00116, LAB-RLD-H00117, LAB-RLD-H00118, LAB-RLD-H00119 24590-LAB-PSIR-CON-09-0044, Rev. NA LAB-RLD-H00121, LAB-RLD-H00122, LAB-RLD-H00128, LAB-RLD-H00129 24590-LAB-PSIR-CON-09-0045, Rev. NA LAB-RLD-H00100, LAB-RLD-H00170, LAB-RLD-H00175 24590-LAB-PSIR-CON-09-0046, Rev. NA LAB-RLD-H00001, H00066, H00067, H00068, H00071, H00207 24590-LAB-PSIR-CON-09-0047, Rev. NA LAB-RLD-H00069 24590-LAB-PSIR-CON-09-0048, Rev. NA LAB-RLD-H00014, H00015, H00016, H00017, H00018 24590-LAB-PSIR-CON-09-0049, Rev. NA LAB-RLD-H10001 24590-LAB-PSIR-CON-09-0050, Rev. NA LAB-RLD-H00074, H00075, H00076, H00077 24590-LAB-PSIR-CON-09-0051, Rev. NA LAB-RLD-H00079, H00080, H00089, H00196 24590-LAB-PSIR-CON-09-0052, Rev. NA LAB-RLD-H00056, H00057 24590-LAB-PSIR-CON-09-0053, Rev. NA LAB-RLD-H00084, H00085, H00086, H00087, H00088 24590-LAB-PSIR-CON-09-0054, Rev. NA LAB-RLD-H00083, H00090, H00091, H00197 24590-LAB-PSIR-CON-09-0055, Rev. NA LAB-RLD-H00061, H00062, H00063, H00064, H00070, H00195 24590-LAB-PSIR-CON-09-0056, Rev. NA LAB-RLD-H00184 24590-LAB-PSIR-CON-09-0057, Rev. NA LAB-RLD-H00131, H00132 24590-LAB-PSIR-CON-10-0003, Rev. NA LAB-RLD-H00144 24590-LAB-PSIR-CON-10-0004, Rev. NA LAB-RLD-H00032, LAB-RLD-H00031, LAB-RLD-H00029, LAB-RLD-H00073, LAB-RLD-H00398, LAB-RLD-H00400 24590-LAB-PSIR-CON-10-0005, Rev. NA LAB-RLD-H00397, LAB-RLD-H00033, LAB-RLD-H00401	

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						24590-LAB-PSIR-CON-10-0029, Rev. NA	24590-LAB-PSIR-CON-10-0006, Rev. NA LAB-RLD-H00137	
						24590-LAB-PSIR-CON-10-0030, Rev. NA	24590-LAB-PSIR-CON-10-0007, Rev. NA LAB-RLD-H00145	
						24590-LAB-PSIR-CON-10-0031, Rev. NA	24590-LAB-PSIR-CON-10-0008, Rev. NA LAB-RLD-H00390	
						24590-LAB-PSIR-CON-10-0032, Rev. NA	24590-LAB-PSIR-CON-10-0010, Rev. NA LAB-RLD-H00165	
						24590-LAB-PSIR-CON-10-0033, Rev. NA	24590-LAB-PSIR-CON-10-0011, Rev. NA LAB-RLD-H00146, LAB-RLD-H00147, LAB-RLD-H00148	
						24590-LAB-PSIR-CON-10-0034, Rev. NA		
						24590-LAB-PSIR-CON-10-0035, Rev. NA	24590-LAB-PSIR-CON-10-0012, Rev. NA LAB-RLD-H00139, LAB-RLD-H00140, LAB-RLD-H00141, LAB-RLD-H00142	
						24590-LAB-PSIR-CON-10-0036, Rev. NA	24590-LAB-PSIR-CON-10-0013, Rev. NA LAB-RLD-H00047, LAB-RLD-H00048	
						24590-LAB-PSIR-CON-10-0037, Rev. NA		
						24590-LAB-PSIR-CON-10-0039, Rev. NA	24590-LAB-PSIR-CON-10-0014, Rev. NA LAB-RLD-H00037	
						24590-LAB-PSIR-CON-10-0040, Rev. NA	24590-LAB-PSIR-CON-10-0015, Rev. NA LAB-RLD-H00125, LAB-RLD-H00126	
						24590-LAB-PSIR-CON-10-0041, Rev. NA		
						24590-LAB-PSIR-CON-10-0042, Rev. NA	24590-LAB-PSIR-CON-10-0016, Rev. NA LAB-RLD-H00338	
						24590-LAB-PSIR-CON-10-0043, Rev. NA	24590-LAB-PSIR-CON-10-0017, Rev. NA LAB-RLD-H00046	
						24590-LAB-PSIR-CON-10-0045, Rev. NA	24590-LAB-PSIR-CON-10-0018, Rev. NA LAB-RLD-H00335, LAB-RLD-H00043, LAB-RLD-H00044	
						24590-LAB-PSIR-CON-10-0046, Rev. NA	24590-LAB-PSIR-CON-10-0019, Rev. NA LAB-RLD-H00028, LAB-RLD-H00396	
						24590-LAB-PSIR-CON-10-0047, Rev. NA		
						24590-LAB-PSIR-CON-10-0048, Rev. NA	24590-LAB-PSIR-CON-10-0020, Rev. NA LAB-RLD-H00042	
						24590-LAB-PSIR-CON-12-0005, Rev. NA	24590-LAB-PSIR-CON-10-0021, Rev. NA LAB-RLD-H00035	
						24590-LAB-PSIR-CON-12-0028, Rev. NA	24590-LAB-PSIR-CON-10-0022, Rev. NA LAB-RLD-H00024, LAB-RLD-H00025, LAB-RLD-H00026, LAB-RLD-H00027	
						24590-LAB-PSIR-CON-12-0029, Rev. NA		
						24590-LAB-PSIR-CON-12-0030, Rev. NA	24590-LAB-PSIR-CON-10-0023, Rev. NA LAB-RLD-H00019, LAB-RLD-H00020, LAB-RLD-H00021, LAB-RLD-H00022, LAB-RLD-H00023	
						24590-LAB-PSIR-CON-12-0031, Rev. NA		
						24590-LAB-PSIR-CON-12-0032, Rev. NA	24590-LAB-PSIR-CON-10-0024, Rev. NA LAB-RLD-H00034, LAB-RLD-H00173, LAB-RLD-H00174	
						24590-LAB-PSIR-CON-12-0033, Rev. NA		
						24590-LAB-PSIR-CON-12-0034, Rev. NA	24590-LAB-PSIR-CON-10-0026, Rev. NA LAB-RLD-H00134, LAB-RLD-H00399	
						24590-LAB-PSIR-CON-12-0035, Rev. NA	24590-LAB-PSIR-CON-10-0027, Rev. NA LAB-RLD-H00135, LAB-RLD-H00038	
						24590-LAB-PSIR-CON-12-0040, Rev. NA		
						24590-LAB-PSIR-CON-12-0045, Rev. NA	24590-LAB-PSIR-CON-10-0028, Rev. NA LAB-RLD-H00133	
						24590-LAB-PSIR-CON-12-0048, Rev. NA	24590-LAB-PSIR-CON-10-0029, Rev. NA LAB-RLD-H00124	
						24590-LAB-PSIR-CON-12-0049, Rev. NA	24590-LAB-PSIR-CON-10-0030, Rev. NA LAB-RLD-H00051	
						24590-LAB-PSIR-CON-13-0003, Rev. NA	24590-LAB-PSIR-CON-10-0031, Rev. NA LAB-RLD-H00039, LAB-RLD-H00040	

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						24590-LAB-PSIR-CON-14-0004, Rev. NA 24590-LAB-PSIR-CON-14-0010, Rev. NA	24590-LAB-PSIR-CON-10-0032, Rev. NA LAB-RLD-H00181, LAB-RLD-H00182 24590-LAB-PSIR-CON-10-0033, Rev. NA LAB-RLD-H00328 24590-LAB-PSIR-CON-10-0034, Rev. NA LAB-RLD-H00392 24590-LAB-PSIR-CON-10-0035, Rev. NA LAB-RLD-H00168 24590-LAB-PSIR-CON-10-0036, Rev. NA LAB-RLD-H00138 24590-LAB-PSIR-CON-10-0037, Rev. NA LAB-RLD-H00036, LAB-RLD-H00194 24590-LAB-PSIR-CON-10-0039, Rev. NA LAB-RLD-H00388, LAB-RLD-H00389 24590-LAB-PSIR-CON-10-0040, Rev. NA LAB-RLD-H00208 24590-LAB-PSIR-CON-10-0041, Rev. NA LAB-RLD-H00343 24590-LAB-PSIR-CON-10-0042, Rev. NA LAB-RLD-H00030 24590-LAB-PSIR-CON-10-0043, Rev. NA LAB-RLD-H00159 24590-LAB-PSIR-CON-10-0045, Rev. NA LAB-RLD-H00176, LAB-RLD-H00201 24590-LAB-PSIR-CON-10-0046, Rev. NA LAB-RLD-H00365 24590-LAB-PSIR-CON-10-0047, Rev. NA LAB-RLD-H00327 24590-LAB-PSIR-CON-10-0048, Rev. NA LAB-RLD-H00386 24590-LAB-PSIR-CON-12-0005, Rev. NA LAB-RLD-H00391 24590-LAB-PSIR-CON-12-0028, Rev. NA LAB-RLD-H00002 24590-LAB-PSIR-CON-12-0029, Rev. NA LAB-RLD-H00003 24590-LAB-PSIR-CON-12-0030, Rev. NA LAB-RLD-H00004 24590-LAB-PSIR-CON-12-0031, Rev. NA LAB-RLD-H00005 24590-LAB-PSIR-CON-12-0032, Rev. NA LAB-RLD-H00006 24590-LAB-PSIR-CON-12-0033, Rev. NA LAB-RLD-H00007 24590-LAB-PSIR-CON-12-0034, Rev. NA LAB-RLD-H00008 24590-LAB-PSIR-CON-12-0035, Rev. NA LAB-RLD-H00185 24590-LAB-PSIR-CON-12-0040, Rev. NA LAB-RLD-H00125 24590-LAB-PSIR-CON-12-0045, Rev. NA LAB-RLD-H00028 24590-LAB-PSIR-CON-12-0048, Rev. NA LAB-RLD-H00079 24590-LAB-PSIR-CON-12-0049, Rev. NA LAB-RLD-H00083 24590-LAB-PSIR-CON-13-0003, Rev. NA LAB-RLD-H10003 24590-LAB-PSIR-CON-14-0004, Rev. NA LAB-RLD-H00365	

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							24590-LAB-PSIR-CON-14-0010, Rev. NA LAB-RLD-H00040, LAB-RLD-H00039	
	3.10.2.9.1 Cell Dimensions (A-B004)	The vessel cell (Rm. No. A-B004) dimensions shall be 29 ft. by 21ft. and minimum secondary containment liner height is at least 2.7 ft.	R	ENV	C	24590-QL-SRA-MTF5-00001-44-00001, Rev. 00C 24590-QL-SRA-MTF5-00001-44-00002, Rev. 00B 24590-QL-SRA-MTF5-00001-44-00003, Rev. 00C 24590-QL-SRA-MTF5-00001-44-00004, Rev. 00C	24590-QL-SRA-MTF5-00001-44-00001, CB&I Analytical Laboratory C5 Cells Plan View, DWG 200 24590-QL-SRA-MTF5-00001-44-00002, CB&I Analytical Laboratory C5 Cell Details, DWG 201 24590-QL-SRA-MTF5-00001-44-00003, CB&I Analytical Laboratory C5 Cell Plan View, DWG 202 24590-QL-SRA-MTF5-00001-44-00004, CB&I Analytical Laboratory C5 Cell Details, DWG 203	
	3.10.2.9.2 Secondary Containment System Integrity (RLD VSL-00165)	Ensure the secondary containment for the RLD-VSL-00165 tank system, as approved/modified pursuant to Permit Condition III.10.E.9, are free of cracks or gaps to prevent any migration of dangerous and/or mixed waste or accumulated liquid out of the system to the soil, ground water, or surface water at any time that waste is in the tank system.	I	ENV	P	24590-QL-SRA-MTF5-00001-42-00014, Rev. 00B 24590-QL-SRA-MTF5-00001-42-00052, Rev. 00C 24590-QL-SRA-MTF5-00001-42-00053, Rev. 00C 24590-QL-SRA-MTF5-00001-42-00054, Rev. 00C 24590-CM-HC4-W000-00055-60-00010, Rev. 00A 24590-CM-HC4-W000-00055-60-00009, Rev. 00B	Verification documentation of liner installation inspections by the liner vendor, CB&I, and by Mistras, the independent installation inspector, are provided. These inspections were generally conducted in the 2005 timeframe. 24590-QL-SRA-MTF5-00001-42-00014, LAB QVRP for installation of liner plate in A-B004 C5 Cell 24590-QL-SRA-MTF5-00001-42-00052, TANKS AND LINERS - INSTALLATION OF CM STAINLESS STEEL LINER PLATE IN THE LAB (NORTH) C5 PUMP PIT, ROOM A-B005 - NORTH PUMP PIT 24590-QL-SRA-MTF5-00001-42-00053, TANKS AND LINERS - INSTALLATION OF CM STAINLESS STEEL LINER PLATE IN LAB (CENTER) C5 PIPING PIT, ROOM A-B006 24590-QL-SRA-MTF5-00001-42-00054, LAB QVRP FOR INSTALLATION OF LINER PLATE IN LAB SOUTH C5 PUMP PIT ROOM A-B007 24590-CM-HC4-W000-00055-60-00010, Liner Plate Installation 24590-CM-HC4-W000-00055-60-00009, Liner Plate Installation Additional inspection records may be generated when the liner protective plywood is removed.	
	3.10.2.9.3 Construction of Secondary Containment (RLD VSL-00165)	The RLD-VSL-00165 system secondary containment will be constructed as identified in Table 3- 9, as approved/modified pursuant to Permit Condition III.10.E.9, as specified in Operating Unit Group 10, Appendices 11.2, 11.4 through 11.14, 11.18, of this Permit, as approved pursuant to Permit Conditions III.10.E.9.b., III.10.E.9.c., and III.10.E.9.d. **Table 3-9 RLD-VSL-00165 Secondary Containment Systems, Including Sumps and Floor Drains.** **Sump I.D.# & Room Location:** RLD-SUMP-00042 A-B004 (C5 Effluent Vessel Cell, El. -19 ft. 2 in.) **Maximum Sump Capacity (gallons):** 30	R	ENV	C	24590-LAB-P1-60-00007, Rev. 003 24590-QL-SRA-MTF5-00001-44-00001, Rev. 00C 24590-QL-SRA-MTF5-00001-44-00002, Rev. 00B 24590-QL-SRA-MTF5-00001-44-00003, Rev. 00C 24590-QL-SRA-MTF5-00001-44-00004, Rev. 00C 24590-LAB-M6-RLD-00001001, Rev. 001 24590-QL-BPO-DD00-00001-45-00033, Rev. 00B	24590-LAB-P1-60-00007, Analytical Laboratory General Arrangement Plan and EL (-)19'-2" Sections F & G The verification documents are supplier as-built drawing illustrating the liner dimensions. 24590-QL-SRA-MTF5-00001-44-00001, CB&I Analytical Laboratory C5 Cells Plan View, DWG 200 24590-QL-SRA-MTF5-00001-44-00002, CB&I Analytical Laboratory C5 Cell Details, DWG 201	

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		Sump Type/Nominal Operating Volume (gallons): Dry **Sump Dimensions (inches) & Materials of Construction:** 30 in. Dia. X ~13" Deep Stainless Steel ------- Dimensions listed are based on permitted design. Actual dimensions may vary within plus or minus (TBD)					24590-QL-SRA-MTF5-00001-44-00003, CB&I Analytical Laboratory C5 Cell Plan View, DWG 202 24590-QL-SRA-MTF5-00001-44-00004, CB&I Analytical Laboratory C5 Cell Details, DWG 203 24590-LAB-M6-RLD-00001001, P&ID – LAB Radioactive Liquid Waste Disposal System C5 Collection and Transfer RLD-VSL-00165 24590-QL-BPO-DD00-00001-45-00033, Drawing – Analytical laboratory C5 Cell Sumps	
	3.10.2.9.3 Construction of Secondary Containment (RLD VSL-00165)	The RLD-VSL-00165 system secondary containment will be constructed as identified in Table 3- 9, as approved/modified pursuant to Permit Condition III.10.E.9, as specified in Operating Unit Group 10, Appendices 11.2, 11.4 through 11.14, 11.18, of this Permit, as approved pursuant to Permit Conditions III.10.E.9.b., III.10.E.9.c., and III.10.E.9.d. **Table 3-9 RLD-VSL-00165 Secondary Containment Systems, Including Sumps and Floor Drains.** **Sump I.D.# & Room Location:** RLD-SUMP-00043A A-B007 (C5 Pump Pit Sump, EL -6 ft. -7 in. low point) **Maximum Sump Capacity (gallons):** 1.40 **Sump Type/Nominal Operating Volume (gallons):** Dry **Sump Dimensions (inches) & Materials of Construction:** 1 ft. -6 in. X 3 ft. X ½ in. Stainless Steel ------- Dimensions listed are based on permitted design. Actual dimensions may vary within plus or minus (TBD)	R	ENV	C	24590-LAB-P1-60-00007, Rev. 003 24590-QL-SRA-MTF5-00001-44-00001, Rev. 00C 24590-QL-SRA-MTF5-00001-44-00002, Rev. 00B 24590-QL-SRA-MTF5-00001-44-00003, Rev. 00C 24590-QL-SRA-MTF5-00001-44-00004, Rev. 00C 24590-LAB-M6-RLD-00001002, Rev. 001	This is not really a sump, it's an embedded pipe. See Section H on 24590-LAB-DB-S13T-00019, Analytical Laboratory C5 Cell Structural Concrete Forming Sections and Details The verification documents are supplier as-built drawing illustrating the liner dimensions. 24590-LAB-P1-60-00007, Analytical Laboratory General Arrangement Plan and EL (-)19'-2" Sections F & G 24590-QL-SRA-MTF5-00001-44-00001, CB&I Analytical Laboratory C5 Cells Plan View, DWG 200 24590-QL-SRA-MTF5-00001-44-00002, CB&I Analytical Laboratory C5 Cell Details, DWG 201 24590-QL-SRA-MTF5-00001-44-00003, CB&I Analytical Laboratory C5 Cell Plan View, DWG 202 24590-QL-SRA-MTF5-00001-44-00004, CB&I Analytical Laboratory C5 Cell Details, DWG 203 24590-LAB-M6-RLD-00001002, P&ID – LAB Radioactive Liquid Waste Disposal System C5 Collection and Transfer RLD-PMP-00183A	
	3.10.2.9.3 Construction of Secondary Containment (RLD VSL-00165)	The RLD-VSL-00165 system secondary containment will be constructed as identified in Table 3- 9, as approved/modified pursuant to Permit Condition III.10.E.9, as specified in Operating Unit Group 10, Appendices 11.2, 11.4 through 11.14, 11.18, of this Permit, as approved pursuant to Permit Conditions III.10.E.9.b., III.10.E.9.c., and III.10.E.9.d. **Table 3-9 RLD-VSL-00165 Secondary Containment Systems, Including Sumps and Floor Drains.** **Sump I.D.# & Room Location:** RLD-SUMP-00043B A-B005 (C5 Pump Pit Sump, EL -6 ft. -7 in. LP) **Maximum Sump Capacity (gallons):** 1.40 **Sump Type/Nominal Operating Volume (gallons):** Dry **Sump Dimensions (inches) & Materials of Construction:** 1 ft. -6 in. X 3 ft. X ½ in. Stainless Steel ------- Dimensions listed are based on permitted design. Actual dimensions may vary within plus or minus (TBD)	R	ENV	C	24590-LAB-DB-S13T-00019, Rev. 004 24590-LAB-P1-60-00007, Rev. 003 24590-QL-SRA-MTF5-00001-44-00001, Rev. 00C 24590-QL-SRA-MTF5-00001-44-00002, Rev. 00B 24590-QL-SRA-MTF5-00001-44-00003, Rev. 00C 24590-QL-SRA-MTF5-00001-44-00004, Rev. 00C 24590-LAB-M6-RLD-00001003, Rev. 001	This is not really a sump, it's an embedded pipe. See Section H on 24590-LAB-DB-S13T-00019, Analytical Laboratory C5 Cell Structural Concrete Forming Sections and Details 24590-LAB-P1-60-00007, Analytical Laboratory General Arrangement Plan and EL (-)19'-2" Sections F & G The verification documents are supplier as-built drawing illustrating the liner dimensions. 24590-QL-SRA-MTF5-00001-44-00001, CB&I Analytical Laboratory C5 Cells Plan View, DWG 200 24590-QL-SRA-MTF5-00001-44-00002, CB&I Analytical Laboratory C5 Cell Details, DWG 201 24590-QL-SRA-MTF5-00001-44-00003, CB&I Analytical Laboratory C5 Cell Plan View, DWG 202 24590-QL-SRA-MTF5-00001-44-00004, CB&I Analytical Laboratory C5 Cell Details, DWG 203	

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							24590-LAB-M6-RLD-00001003, P&ID – LAB Radioactive Liquid Waste Disposal System C5 Collection and Transfer RLD-PMP-00183B	
Y	**3.10.2.9.3 Construction of Secondary Containment (RLD VSL-00165)**	The RLD-VSL-00165 system secondary containment will be constructed as identified in Table 3- 9, as approved/modified pursuant to Permit Condition III.10.E.9, as specified in Operating Unit Group 10, Appendices 11.2, 11.4 through 11.14, 11.18, of this Permit, as approved pursuant to Permit Conditions III.10.E.9.b., III.10.E.9.c., and III.10.E.9.d. **Table 3-9 RLD-VSL-00165 Secondary Containment Systems, Including Sumps and Floor Drains.** **Sump I.D.# & Room Location:** RLD-SUMP-00044 A-B006 (C5 Piping Pit Sump, EL -6 ft. -7 in. LP) **Maximum Sump Capacity (gallons):** 1.60 **Sump Type/Nominal Operating Volume (gallons):** Dry **Sump Dimensions[a] (inches) & Materials of Construction:** 2 ft. X 2 ft. -6 in. X ½ in. Stainless Steel ------- Dimensions listed are based on permitted design. Actual dimensions may vary within plus or minus (TBD).	R	ENV		24590-LAB-M6-RLD-00001004, Rev. 001 24590-LAB-P1-60-00007, Rev. 003 24590-QL-SRA-MTF5-00001-44-00001, Rev. 00C 24590-QL-SRA-MTF5-00001-44-00002, Rev. 00B 24590-QL-SRA-MTF5-00001-44-00003, Rev. 00C 24590-QL-SRA-MTF5-00001-44-00004, Rev. 00C	This is not really a sump, it's an embedded pipe. See Section H on 24590-LAB-DB-S13T-00019, Analytical Laboratory C5 Cell Structural Concrete Forming Sections and Details 24590-LAB-M6-RLD-00001004, P&ID – LAB Radioactive Liquid Waste Disposal System C5 Collection and Transfer Valve Pit 24590-LAB-P1-60-00007, Analytical Laboratory General Arrangement Plan and EL (-)19'-2" Sections F & G The verification documents are supplier as-built drawing illustrating the liner dimensions. 24590-QL-SRA-MTF5-00001-44-00001, CB&I Analytical Laboratory C5 Cells Plan View, DWG 200 24590-QL-SRA-MTF5-00001-44-00002, CB&I Analytical Laboratory C5 Cell Details, DWG 201 24590-QL-SRA-MTF5-00001-44-00003, CB&I Analytical Laboratory C5 Cell Plan View, DWG 202 24590-QL-SRA-MTF5-00001-44-00004, CB&I Analytical Laboratory C5 Cell Details, DWG 203	
	3.10.2.9.3 Construction of Secondary Containment (RLD VSL-00165)	The RLD-VSL-00165 system secondary containment will be constructed as identified in Table 3- 9, as approved/modified pursuant to Permit Condition III.10.E.9, as specified in Operating Unit Group 10, Appendices 11.2, 11.4 through 11.14, 11.18, of this Permit, as approved pursuant to Permit Conditions III.10.E.9.b., III.10.E.9.c., and III.10.E.9.d. **Table 3-9 RLD-VSL-00165 Secondary Containment Systems, Including Sumps and Floor Drains.** **Sump I.D.# & Room Location:** RLD-ZN-02203- S11E-04 A-B004, (C5 Effluent Vessel Cell) **Maximum Sump Capacity (gallons):** N/A **Sump Type/Nominal Operating Volume (gallons):** N/A **Sump Dimensions (inches) & Materials of Construction:** 4 in. Dia. 316L ------- Dimensions listed are based on permitted design. Actual dimensions may vary within plus or minus (TBD)	R	ENV	C	24590-LAB-APIR-CON-05-0467, Rev. NA 24590-LAB-P3-RLD-ZN02203001, Rev. 002 24590-LAB-M6-RLD-00001002, Rev. 001	24590-LAB-APIR-CON-05-0467, Aboveground Piping Inspection Record, LAB-RLD-ZN-02203-S11E 24590-LAB-P3-RLD-ZN02203001, LAB Facility Isometric, Line No. RLD-ZN-02203-S11E-4 24590-LAB-M6-RLD-00001002, P&ID – LAB Radioactive Liquid Waste Disposal System C5 Collection and Transfer RLD-PMP-00183A The RFE initials on the APIR indicate verification of up to 9 different attributes of the installation of this piping including that it was fabricated of 4-inch 316L stainless steel in accordance with the design documents referenced on the APIR form.	
	3.10.2.9.3 Construction of Secondary Containment (RLD VSL-00165)	The RLD-VSL-00165 system secondary containment will be constructed as identified in Table 3- 9, as approved/modified pursuant to Permit Condition III.10.E.9, as specified in Operating Unit Group 10, Appendices 11.2, 11.4 through 11.14, 11.18, of this Permit, as approved pursuant to Permit Conditions III.10.E.9.b., III.10.E.9.c., and III.10.E.9.d. **Table 3-9 RLD-VSL-00165 Secondary Containment Systems, Including Sumps and Floor Drains.**	R	ENV	C	24590-LAB-M6-RLD-00001003, Rev. 001 24590-LAB-APIR-CON-05-0469, Rev. NA 24590-LAB-P3-RLD-ZN03393001, Rev. 000	24590-LAB-M6-RLD-00001003, P&ID – LAB Radioactive Liquid Waste Disposal System C5 Collection and Transfer RLD-PMP-00183B 24590-LAB-APIR-CON-05-0469, Aboveground Piping Inspection Record, LAB-RLD-ZN-03393-S11E 24590-LAB-P3-RLD-ZN03393001, LAB Facility Isometric, Line No. RLD-ZN-03393-S11E-4	

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		Sump I.D.# & Room Location: RLD-ZN-03393- S11E-04 A-B004, (C5 Effluent Vessel Cell) **Maximum Sump Capacity (gallons):** N/A **Sump Type/Nominal Operating Volume (gallons):** N/A **Sump Dimensions (inches) & Materials of Construction:** 4 in. Dia. 316L ------- Dimensions listed are based on permitted design. Actual dimensions may vary within plus or minus (TBD)					The RFE initials on the APIR indicate verification of up to 9 different attributes of the installation of this piping including that it was fabricated of 4-inch 316L stainless steel in accordance with the design documents referenced on the APIR form.	
	3.10.2.9.3 Construction of Secondary Containment (RLD VSL-00165)	The RLD-VSL-00165 system secondary containment will be constructed as identified in Table 3- 9, as approved/modified pursuant to Permit Condition III.10.E.9, as specified in Operating Unit Group 10, Appendices 11.2, 11.4 through 11.14, 11.18, of this Permit, as approved pursuant to Permit Conditions III.10.E.9.b., III.10.E.9.c., and III.10.E.9.d. **Table 3-9 RLD-VSL-00165 Secondary Containment Systems, Including Sumps and Floor Drains.** **Sump I.D.# & Room Location:** RLD-ZN-03394- S11E-04 A-B004, (C5 Effluent Vessel Cell) **Maximum Sump Capacity (gallons):** N/A **Sump Type/Nominal Operating Volume (gallons):** N/A **Sump Dimensions (inches) & Materials of Construction:** 4 in. Dia. 316L ------- Dimensions listed are based on permitted design. Actual dimensions may vary within plus or minus (TBD)	R	ENV	C	24590-LAB-M6-RLD-00001004, Rev. 001 24590-LAB-APIR-CON-05-0470, Rev. NA 24590-LAB-P3-RLD-ZN03394001, Rev. 000	24590-LAB-M6-RLD-00001004, P&ID – LAB Radioactive Liquid Waste Disposal System C5 Collection and Transfer Valve Pit 24590-LAB-APIR-CON-05-0470, Aboveground Piping Inspection Record, LAB-RLD-ZN-03394-S11E 24590-LAB-P3-RLD-ZN03394001, LAB Facility Isometric, Line No. RLD-ZN-03394-S11E-4 The RFE initials on the APIR indicate verification of up to 9 different attributes of the installation of this piping including that it was fabricated of 4-inch 316L stainless steel in accordance with the design documents referenced on the APIR form.	
	3.10.2.9.4 Leakage Detection Systems (RLD VSL-00165)	The Permittees will install and test all process and leak detection system monitoring/instrumentation, Table 3-10. **Table 3-10 LAB C5 Effluent Cell Leak Detection System Instruments** **Tank System Name and Locator:** RLD-LDB-00002 A-B004 **Maximum Capacity (gallons):** 6 **Type of Measuring or Leak Detection Instrument:** Thermal Dispersion Level Switch **Approximate Dimensions/Materials of Construction:** 8 in. Dia. x 24 in. Length Stainless Steel (316L)	R	ENV	P	24590-LAB-M6-RLD-00008001, Rev. 000 24590-LAB-FIR-CON-12-00011, Rev. NA 24590-LAB-TVIR-CON-06-0006, Rev. NA 24590-CM-POA-PY00-00003-04-00001, Rev. 00D 24590-WTP-MRR-PROC-0015632, Rev. 000 24590-LAB-SEC-E-14-0322, Rev. 000 24590-LAB-ITIR-CON-12-0939, Rev. NA	24590-LAB-M6-RLD-00008001, P&ID – LAB Radioactive Liquid Waste Disposal System C5 Leak Detection Boxes 24590-LAB-FIR-CON-12-00011, Field Inspection Report 24590-CM-POA-PY00-00003-04-00001, Drawing – Lab Secondary Containment Leak Detection Box Shop Assembly 24590-WTP-MRR-PROC-0015632, Material Receiving Report, Facility Design Construction, Inc. (RLD-LDB-00002 begins on page 725 of 749) 24590-LAB-TVIR-CON-06-0006, Tank/Vessel Inspection Record - RLD-LDB-00002 24590-LAB-SEC-E-14-0322, SETROUTE Equipment Installation Card 24590-LAB-ITIR-CON-12-0939, Instrument and Tubing Inspection Record RFE signed the SEC verifying as many as 15 different attributes of the installation including installation of a thermal dispersion level switch in this leak detection box. The results of start-up testing may be used to meet the "test" portion of this requirement in accordance with 24590-LAB-RPT-ENG-17-009, Test Matrix for the LAB RLD System, Item Reference Number J5 and J6;	

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							24590-LAB-3ZD-RLD-00001, Rev 1, Lab Radioactive Liquid Waste Disposal (RLD) System Design Description, Appendix A: 3.4.2.2.8 Leak Detection System C3/C5.	
	3.10.2.9.4 Leakage Detection Systems (RLD VSL-00165)	The Permittees will install and test all process and leak detection system monitoring/instrumentation, Table 3-10. **Table 3-10 LAB C5 Effluent Cell Leak Detection System Instruments** **Tank System Name and Locator:** RLD-LDB-00004 A-B004 **Maximum Capacity (gallons):** 6 **Type of Measuring or Leak Detection Instrument:** Thermal Dispersion Level Switch **Approximate Dimensions/Materials of Construction:** 8 in. Dia. x 24 in. Length Stainless Steel (316L)	R	ENV	P	24590-LAB-M6-RLD-00008001, Rev. 000 24590-LAB-FIR-CON-12-00009, Rev. NA 24590-LAB-TVIR-CON-06-0007, Rev. NA 24590-CM-POA-PY00-00003-04-00002, Rev. 00D 24590-WTP-MRR-PROC-0015632, Rev. 000 24590-LAB-SEC-E-14-0321, Rev. 000 24590-LAB-ITIR-CON-12-0938, Rev. NA	24590-LAB-M6-RLD-00008001, P&ID – LAB Radioactive Liquid Waste Disposal System C5 Leak Detection Boxes 24590-LAB-FIR-CON-12-00009, Field Inspection Report 24590-CM-POA-PY00-00003-04-00002, Drawing – Lab Secondary Containment Leak Detection Box Shop Assembly 24590-WTP-MRR-PROC-0015632, Material Receiving Report, Facility Design Construction, Inc. (RLD-LDB-00004 begins on page 728 of 749) 24590-LAB-TVIR-CON-06-0007, Tank/Vessel Inspection Record - RLD-LDB-00004 24590-LAB-SEC-E-14-0321, SETROUTE Equipment Installation Card 24590-LAB-ITIR-CON-12-0938, Instrument and Tubing Inspection Record RFE signed the SEC verifying as many as 15 different attributes of the installation including installation of a thermal dispersion level switch in this leak detection box. The results of start-up testing may be used to meet the "test" portion of this requirement in accordance with 24590-LAB-RPT-ENG-17-009, Test Matrix for the LAB RLD System, Item Reference Number J5 and J6; 24590-LAB-3ZD-RLD-00001, Rev 1, Lab Radioactive Liquid Waste Disposal (RLD) System Design Description, Appendix A: 3.4.2.2.8 Leak Detection System C3/C5.	
	3.10.2.9.4 Leakage Detection Systems (RLD VSL-00165)	The Permittees will install and test all process and leak detection system monitoring/instrumentation, Table 3-10. **Table 3-10 LAB C5 Effluent Cell Leak Detection System Instruments** **Tank System Name and Locator:** RLD-LDB-00009 A-B004 **Maximum Capacity (gallons):** 6 **Type of Measuring or Leak Detection Instrument:** Thermal Dispersion Level Switch **Approximate Dimensions/Materials of Construction:** 8 in. Dia. x 24 in. Length Stainless Steel (316L)	R	ENV	P	24590-LAB-M6-RLD-00008001, Rev. 000 24590-LAB-FIR-CON-12-00010, Rev. NA 24590-LAB-TVIR-CON-06-0008, Rev. NA 24590-CM-POA-PY00-00003-04-00007, Rev. 00D 24590-WTP-MRR-PROC-0015632, Rev. 000 24590-LAB-SEC-E-14-0328, Rev. 000 24590-LAB-ITIR-CON-12-0945, Rev. NA	24590-LAB-M6-RLD-00008001, P&ID – LAB Radioactive Liquid Waste Disposal System C5 Leak Detection Boxes 24590-LAB-FIR-CON-12-00010, Field Inspection Report 24590-CM-POA-PY00-00003-04-00007, Drawing – Lab Secondary Containment Leak Detection Box Shop Assembly 24590-WTP-MRR-PROC-0015632, Material Receiving Report, Facility Design Construction, Inc. (RLD-LDB-00009 begins on page 743 of 749) 24590-LAB-TVIR-CON-06-0008, Tank/Vessel Inspection Record - RLD-LDB-00009 24590-LAB-SEC-E-14-0328, SETROUTE Equipment Installation Card 24590-LAB-ITIR-CON-12-0945, Instrument and Tubing Inspection Record RFE signed the SEC verifying as many as 15 different attributes of the installation including installation of a thermal dispersion level switch in this leak detection box.	

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							The results of start-up testing may be used to meet the "test" portion of this requirement in accordance with 24590-LAB-RPT-ENG-17-009, Test Matrix for the LAB RLD System, Item Reference Number J5 and J6; 24590-LAB-3ZD-RLD-00001, Rev 1, Lab Radioactive Liquid Waste Disposal (RLD) System Design Description, Appendix A: 3.4.2.2.8 Leak Detection System C3/C5.	
	3.10.2.9.5 Secondary Containment Support (RLD VSL-00165)	Secondary containment systems must be at a minimum: • Placed on a foundation or base capable of providing support to the secondary containment system, resistance to pressure gradients above and below the system, and capable of preventing failure due to settlement, compression, or uplift. • Resisting the pressure gradients above and below the system • Preventing failure due to settlement, compression, or uplift	R	ENV	P	24590-LAB-FSK-CON-L-04-001, Rev. 007 24590-LAB-FSK-CON-L-04-002, Rev. 003 24590-BOF-BIR-CON-04-031, Rev. NA 24590-LAB-CE-C13T-00001, Rev. 002 24590-LAB-CE-C13T-00002, Rev. 002 24590-LAB-CE-C13T-00003, Rev. 002 24590-LAB-CPC-CON-05-004, Rev. NA 24590-LAB-CPC-CON-05-045, Rev. NA 24590-LAB-CPC-CON-05-046, Rev. NA 24590-LAB-CPC-CON-05-048, Rev. NA 24590-LAB-CPC-CON-05-051, Rev. NA 24590-LAB-CPC-CON-05-073, Rev. NA 24590-LAB-CPC-CON-05-075, Rev. NA 24590-LAB-CPC-CON-05-076, Rev. NA 24590-LAB-CPC-CON-05-077, Rev. NA 24590-LAB-CPC-CON-05-078, Rev. NA 24590-LAB-CPC-CON-05-079, Rev. NA 24590-LAB-CPC-CON-05-080, Rev. NA 24590-LAB-CPC-CON-05-082, Rev. NA 24590-LAB-CPC-CON-06-002, Rev. NA 24590-LAB-CPC-CON-04-016, Rev. NA 24590-LAB-CPC-CON-04-003, Rev. NA 24590-LAB-CPC-CON-04-024, Rev. NA 24590-LAB-CPC-CON-04-009, Rev. NA 24590-LAB-CPC-CON-06-009, Rev. NA 24590-LAB-CPC-CON-04-004, Rev. NA 24590-LAB-CPC-CON-05-041, Rev. NA 24590-LAB-CPC-CON-04-019, Rev. NA	The backfill inspection report documents pre-concrete placement site preparation activities. The pour cards document completion of all pre- and post-placement activities including verification of the concrete compressive strength cylinder break test results. Need to further investigate the availability of a report or reports documenting sub grade preparation, prior to placement and compaction of structural fill. 24590-BOF-BIR-CON-04-031, Backfill Inspection Report, Backfill-LAB 24590-LAB-CE-C13T-00001, Analytical Laboratory Excavation Site Plan 24590-LAB-CE-C13T-00002, Analytical Laboratory Excavation Sections 24590-LAB-CE-C13T-00003, Analytical Laboratory Excavation Sections Use the following key plans for the concrete pour locations: 24590-LAB-FSK-CON-L-04-001 and 24590-LAB-FSK-CON-L-04-002 24590-LAB-CPC-CON-05-004, Rev. NA ACC-0009 - LAB ELEV 0 FT -0 IN BASESLAB PLACEMENT LOCATED BETWEEN 1/2.2 LINE AND S TO 4FT -0 IN SOUTH OF Q LINE 24590-LAB-CPC-CON-05-045, Rev. NA ACC-0011 - LAB BASE 3 FT 0 IN BASE SLAB PLACEMENT ELEV 0 FT 0 IN 4.5 TO 2.2 LINE AND BETWEEN R & N LINE 24590-LAB-CPC-CON-05-046, Rev. NA ACC-0013A - LAB BASE SLAB 3 FT -0 IN PLACEMENT TO EL 0 FT 0 IN, 1 FT -0 IN N OF F-LINE TO 9 FT -0 INN OF D-LINE FROM EAST EDGE TO 8 FT -0 IN W OF 2.2-LINE INCLUDING THE NE CORNER OF THE C2 FIRE WATER VAULT WALL UP TO ELEV 0 FT -0 IN 24590-LAB-CPC-CON-05-048, Rev. NA ACC013B - BASE SLAB POUR NE CORNER 24590-LAB-CPC-CON-05-051, Rev. NA ACC-015 LAB BASE SLAB 5 FT 0 IN PLACEMENT TO EL 0 FT 0 IN A LINE TO S OF C LINE FROM WEST EDGE TO 8 FT 0 IN E OF 2 LINE 24590-LAB-CPC-CON-05-073, Rev. NA ACC009B - LAB BASE SLAB 5 FT 0 IN PLACEMENT TO EL 0 FT 0 IN - 3 FT 0 IN S OF K-LINE TO 2 FT 6 IN OF N-LINE AND FROM 1-LINE TO 2 FT 0 IN W OF 2-LINE 24590-LAB-CPC-CON-05-075, Rev. NA ACC-015A - LAB BASE SLAB 5 FEET -00 INCHES PLACEMENT TO EL 0 FEET -00 INCHES N OF F-LINE AND FROM 1 -LINE TO 8 FEET E. OS 2-LINE	

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						24590-LAB-CPC-CON-04-010, Rev. NA 24590-LAB-CPC-CON-06-005, Rev. NA 24590-LAB-CPC-CON-06-001, Rev. NA 24590-LAB-CPC-CON-11-002, Rev. NA 24590-LAB-CPC-CON-06-005, Rev. NA 24590-LAB-CPC-CON-11-003, Rev. NA 24590-LAB-CPC-CON-05-072, Rev. NA	24590-LAB-CPC-CON-05-076, Rev. NA ACC-015B - LAB 5 FEET-0 INCH THICK BASE SLAB FROM EL (-) 6 FEET-51/2 INCH TO EL 0 FEET-0 INCH, FROM N OF COLUMN LINE 24590-LAB-CPC-CON-05-077, Rev. NA ACC-011A LAB BASE SLAB 3 FT 0 IN PLACEMENT 3 FT 7 IN S OF M LINE TO 2 FT 6 IN S OF N LINE AND 2 FT 0 IN W OF 2 LINE TO 1 FT 6 IN E OF 4.5 LINE 24590-LAB-CPC-CON-05-078, Rev. NA ACC-011B - LAB BASE SLAB 3 FT-0 IN PLACEMENT; 3 FT-7 IN S OF M LINE AND 3 FT-0 IN E OF 2.4 LINE TO 1 FT-6 IN E OF 4.5 LINE 24590-LAB-CPC-CON-05-079, Rev. NA ACC-011C - LAB BASE SLAB 4 FT-0 IN PLACEMENT; 8 FT-5 IN N OF H LINE TO 8 FT-0 IN N OF L LINE AND 2 FT-6 IN E OF 2.7 LINE TO 20 FT-0 IN E OF 3 LINE 24590-LAB-CPC-CON-05-080, Rev. NA ACC-011D - LAB BASE SLAB FROM 3 FT.-0 IN./-5 FT.-0 IN.; FROM 2 FT.2 IN. W OF 2 LINE TO 2 FT.-5 IN. E OF COLUMN LINE 2.7; 8 FT.-5 IN. N OF COLUMN LINE H TO 4 FT-1 IN. S OF COLUMN LINE M, INNER PIT WALL OF C-3 PIT ON E AND S FACES, APPROX. EQUAL TO 8 FT. 24590-LAB-CPC-CON-05-082, Rev. NA ACC-0013 LAB BASE SLAB 3 FT 0 IN PLACEMENT TO EL 0 FT 0 IN 1 FT 0 IN N OF F LINE TO 4 FT 0 IN S OF H LINE FROM EAST EDGE TO 2.2 LINE EAST WALL OF C2 C3 WALL 24590-LAB-CPC-CON-06-002, Rev. NA ACC-011B - LAB BASE SLAB 3FT.-0 IN. PLACEMENT; 4 FT.-0 IN. N OF L-LINE TO 6 FT.-9 IN. N OF H.5-LINE AND 6 FT.-0 IN. W OF 3.5-LINE TO 4.5-LINE 24590-LAB-CPC-CON-04-016, Rev. NA ACC-003B 24590-LAB-CPC-CON-04-003, Rev. NA ACC-003 24590-LAB-CPC-CON-04-024, Rev. NA ACC-003C 24590-LAB-CPC-CON-04-009, Rev. NA ACC-003A 24590-LAB-CPC-CON-06-009, Rev. NA ACC-003D 24590-LAB-CPC-CON-04-004, Rev. NA ACC-004 24590-LAB-CPC-CON-05-041, Rev. NA ACC-017 24590-LAB-CPC-CON-04-019, Rev. NA ACC-004B 24590-LAB-CPC-CON-04-010, Rev. NA ACC-004A 24590-LAB-CPC-CON-06-005, Rev. NA ACC-015C 24590-LAB-CPC-CON-06-001, Rev. NA ACC-018 24590-LAB-CPC-CON-11-002, Rev. NA ACC-011G 24590-LAB-CPC-CON-06-005, Rev. NA ACC-015C	

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							24590-LAB-CPC-CON-11-003, Rev. NA ACC-015D 24590-LAB-CPC-CON-05-072, Rev. NA ACC-009A	
	3.10.2.9.6 Impermeable Coatings (RLD VSL-00165)	An impermeable coating, as specified in Operating Unit Group 10, Appendices 11.4,11.5, 11.7, 11.9, 11.11, and 11.12 of this Permit, as approved pursuant to Permit Condition III.10.E.9.b.v., will be installed for all concrete containment systems and concrete portions of containment systems for each WTP Unit Tank System listed in Permit Tables III.10.E.D and P that do not have a liner and have construction joints, must meet the requirements of WAC 173-303-640(4)(e)(ii)(C) and -806(4)(c)(vii). The coating will prevent migration of any dangerous and/or mixed waste into the concrete. All coatings will meet the following performance standards: • The coating must seal the containment surface such that no cracks, seams, or other avenues through which liquid could migrate are present; • The coating must be of adequate thickness and strength to withstand the normal operation of equipment and personnel within the given area such that degradation or physical damage to the coating or lining can be identified and remedied before dangerous and/or mixed waste could migrate from the system; and • The coating must be compatible with the dangerous and/or mixed waste, treatment reagents, or other materials managed in the containment system (WAC 173-303-640(4)(e)(ii)(D), WAC 173-303-806(4)(c)(vii)).	R	CON	C	Not applicable	The cells are not coated, they have stainless steel liners.	
	3.10.2.9.6 Impermeable Coatings (RLD VSL-00165)	An impermeable coating, as specified in Operating Unit Group 10, Appendices 11.4,11.5, 11.7, 11.9, 11.11, and 11.12 of this Permit, as approved pursuant to Permit Condition III.10.E.9.b.v., will be installed for all concrete containment systems and concrete portions of containment systems for each WTP Unit Tank System listed in Permit Tables III.10.E.D and P that do not have a liner and have construction joints, must meet the requirements of WAC 173-303-640(4)(e)(ii)(C) and -806(4)(c)(vii). The coating will prevent migration of any dangerous and/or mixed waste into the concrete. All coatings will meet the following performance standards: • The coating must seal the containment surface such that no cracks, seams, or other avenues through which liquid could migrate are present; • The coating must be of adequate thickness and strength to withstand the normal operation of equipment and personnel within the given area such that degradation or physical damage to the coating or lining can be identified and remedied before dangerous and/or mixed waste could migrate from the system; and	I	ENV	C	Not applicable	The cells are not coated, they have stainless steel liners.	

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Updated in this Rev (Y or Blank)	Requirement Section No. and Title (or requirement source for specialized RVM)	Requirement Text	Verification Method	Responsible Group	Verification Status (Blank, P = partial, C = complete)	Verification Documentation	Verification Discussion	Historical Verification (Y or Blank)
		• The coating must be compatible with the dangerous and/or mixed waste, treatment reagents, or other materials managed in the containment system (WAC 173-303-640(4)(e)(ii)(D), WAC 173-303-806(4)(c)(vii)).						
	3.10.2.10 Vessel (RLD-VSL-00165) Above Ground Piping	Tank system piping shall be constructed of the materials specified in the approved design.	R	ENV	P	24590-LAB-SV-ENV-18-002, Rev. 000	Documents a surveillance to verify that field engineering checked piping materials of construction. 24590-LAB-SV-ENV-18-002, Review of Materials of Construction – Above Ground Piping Inspection Records (APIRs) for the Analytical Laboratory Dangerous Waste Piping - ZZZWECCESH	

Notes & Comments:

Revision History

Revision	Reason for Revision
0	Initial issue
1	Updated Verification Documentation
2	Update to align to SDD, 24590-LAB-3ZD-RLD-00001, Rev. 2 changes to DWP construction certification requirements.
3	Update to align to SDDCN, 24590-LAB-3ZN-RLD-00006, changes to DWP construction certification requirements; updated form.
4	Update verification documentation.
5	Update to resolve Ecology RCR.

This document has been digitally signed using the Electrosign process.

Document for Signature

Document Number: 24590-WTP-3YV-SRM-00054 **Rev:** 5

	Participants	Signature	Completed	Status	Result	Comments
Signers	**4/13/2020 3:52 PM**					
	Davis, Sheila		4/14/2020 3:01 PM	Completed	Approve	
	Quick, Mark		4/14/2020 3:09 PM	Completed	Approve	
	Lagen, Valerie Administered by: Stephan, Andrew		4/15/2020 10:33 AM	Completed	Approve	
	Roy, Lucie		4/15/2020 10:43 AM	Completed	Approve	
Final Approver	**4/15/2020 10:43 AM**					
	Milgate, Ian		4/15/2020 10:47 AM	Completed	Approve	

Attachment 3

Bechtel National, Inc. Professional Engineer Statement

2 Pages

(including coversheet)

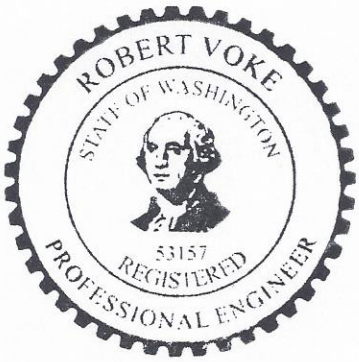
Bechtel National Inc. Professional Engineer Statement

The documentation provided in ORP Letter 20-ECD-0001 dated January 23, 2020 provided the supporting evidence that the WTP Analytical Laboratory has been designed and constructed in accordance with Permit Condition III.10.C.2.a of WA7890008967, Hanford Facility Resource Conservation and Recovery Act (RCRA) Permit, Dangerous Waste Portion, for the Treatment, Storage, and Disposal of Dangerous Waste, Part III, Operating Unit Group 10 (Waste Treatment and Immobilization Plant).

For purposes of design, installation, and corrosion protection, the Analytical Laboratory Radioactive Liquid Waste Disposal (RLD) system tank and ancillary equipment, independent qualified registered professional engineer (IQRPE) reports, independent corrosion evaluation (ICE) report, and independent installation inspection (III) report were prepared, signed, and stamped in accordance with the applicable components of Washington Administrative Code, Dangerous Waste Regulations, Section WAC-173-303-640(3) (a) through (g) on behalf of the owner/operator (Department of Energy, Office of River Protection, Richland, Washington).

Based on my review of the information submitted and reports certified by the IQRPE, III, and ICE, to the best of my knowledge and belief, the information and reports are true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Robert Voke
WTP Engineering Manager
Washington State PE



Date 4/22/2020