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OFFICE OF RIVER PROTECTION  
P.O. Box 450, MSIN H6-60  
Richland, Washington 99352

SEP 29 2017

17-TPD-0023

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

Ms. Smith:

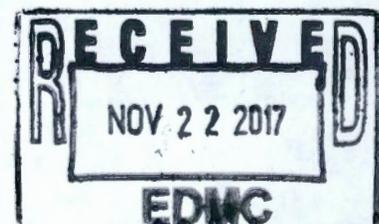
COMPLETION OF HANFORD FEDERAL FACILITY AGREEMENT AND CONSENT  
ORDER INTERIM MILESTONE M-045-91E2 DELIVERABLE

- References:
1. ORP letter from K.W. Smith to J.A. Hedges, Ecology, "Submittal of Hanford Federal Facility Agreement and consent Order Interim Milestone M-045-91 E1 Deliverable," 15-TF-0095, dated September 21, 2015. 123113
  2. ORP letter from K.W. Smith to J.A. Hedges, Ecology, "Submittal of Hanford Federal Facility Agreement and consent Order Interim Milestone M-045-91 E Deliverable," 13-TF-0066, dated September 17, 2013. 1221577

This letter documents the completion of the Hanford Federal Facility Agreement and Consent Order Interim Milestone M-045-91E2. This interim milestone requires that the U.S. Department of Energy, Office of River Protection provide to the Washington State Department of Ecology, a compilation of the single-shell tank farms dome deflection surveys every two years, beginning September 30, 2013.

The attached report is a recent compilation of all 100-series SST dome elevation survey results and discussion thereof. Changes in elevation of a SST dome can identify deflection of the dome which is an early indication of structural distress. The elevation survey results in the attached report indicate there is no significant dome deflection in any of the 100-series SSTs.

Completion of the initial interim milestone M-045-91E was met with the 2013 submittal (Reference 2). Subsequent transmittals of these reports were to be submitted with the numbering sequence M-045-91E1 for 2015 (Reference 1), M-045-91E2 for 2017 and so on.

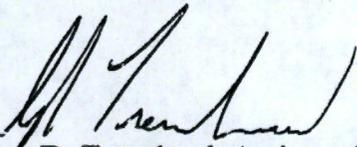


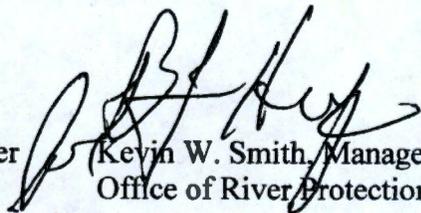
Ms. Alexandra K Smith  
17-TPD-0023

-2-

SEP 29 2017

If you have questions, please contact Glyn D. Trenchard, Assistant Manager for Tank Farms Project on (509) 373-4016.

  
Glyn D. Trenchard, Assistant Manager  
Tank Farms Project

  
Kevin W. Smith, Manager  
Office of River Protection

**Attachment**

**cc w/attach:**

Environmental Portal, LMSI  
TPA Administrative Record  
WRPS Correspondence

**cc w/o attach:**

S. Harris, CTUIR  
J.M. Alzheimer, Ecology  
S.L. Dahl-Crumpler, Ecology  
J.J. Lyon, Ecology  
J.B. Price, Ecology  
M.B. Walmsley, Ecology  
C.L. Whalen, Ecology  
D.A. Faulk, EPA  
G. Bohnee, NPT  
S.E. Hudson, HAB  
R.E. Piippo, MSA  
J.G. Woolard, MSA  
K.Niles, ODOE  
R.Buck, Wanapum  
J.D. Doughty, WRPS  
R.Jim, YN  
D. Rowland, YN

Attachment

17-TPD-0023

RPP-RPT-55202 Rev.02

<b>DOCUMENT RELEASE AND CHANGE FORM</b>				Release Stamp
Prepared For the U.S. Department of Energy, Assistant Secretary for Environmental Management By Washington River Protection Solutions, LLC., PO Box 850, Richland, WA 99352 Contractor For U.S. Department of Energy, Office of River Protection, under Contract DE-AC27-08RV14800 TRADEMARK DISCLAIMER: Reference herein to any specific commercial product, process, or service by trade name, trademark, manufacturer, or otherwise, does not necessarily constitute or imply its endorsement, recommendation, or favoring by the United States government or any agency thereof or its contractors or subcontractors. Printed in the United States of America.				<div style="border: 2px solid orange; padding: 10px; width: fit-content; margin: auto;"> <p style="font-weight: bold; color: orange;">DATE:</p> <p style="font-size: 1.2em; color: orange;">Sep 20, 2017</p> </div>
1. Doc No: RPP-RPT-55202 Rev. 02				
2. Title: DOME SURVEY REPORT FOR HANFORD SINGLE-SHELL TANKS				
3. Project Number: <input checked="" type="checkbox"/> N/A		4. Design Verification Required: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
5. USQ Number: <input checked="" type="checkbox"/> N/A RPP-27195		6. PrHA Number Rev. <input checked="" type="checkbox"/> N/A		Clearance Review Restriction Type: public
<b>7. Approvals</b>				
<b>Title</b>	<b>Name</b>	<b>Signature</b>	<b>Date</b>	
Checker	NARANJO, DANIEL A	NARANJO, DANIEL A	08/07/2017	
Clearance Review	AARDAL, JANIS D	AARDAL, JANIS D	09/20/2017	
Document Control Approval	PORTER, MARY	PORTER, MARY	09/20/2017	
Originator	YOUNG, NATALIE M	YOUNG, NATALIE M	08/03/2017	
Other Approver	MACKEY, TOM	MACKEY, TOM	08/14/2017	
Other Approver	GAUCK, GREGORY J	GAUCK, GREGORY J	07/26/2017	
Other Approver	VENETZ, TED J	VENETZ, TED J	07/31/2017	
Other Approver	MCSHANE, MICHAEL	MCSHANE, MICHAEL	08/10/2017	
Responsible Manager	MENDOZA, RUBEN E	YOUNG, NATALIE M for MENDOZA, RUBEN <i>E per email</i>	08/14/2017	
<b>8. Description of Change and Justification</b>				
Updated to include recent dome survey data.				
<b>9. TBDs or Holds</b> <span style="float: right;"><input checked="" type="checkbox"/> N/A</span>				
<b>10. Related Structures, Systems, and Components</b>				
<b>a. Related Building/Facilities</b> <input type="checkbox"/> N/A	<b>b. Related Systems</b> <input type="checkbox"/> N/A	<b>c. Related Equipment ID Nos. (EIN)</b> <input checked="" type="checkbox"/> N/A		
200E 200G 241-A 241-AX 241-B 241-BX 241-BY 241-C 241-S 241-SX 241-T 241-TX 241-TY 241-U	241-WST			
<b>11. Impacted Documents – Engineering</b> <span style="float: right;"><input checked="" type="checkbox"/> N/A</span>				
<b>Document Number</b>	<b>Rev.</b>	<b>Title</b>		
<b>12. Impacted Documents (Outside SPF):</b> N/A				
<b>13. Related Documents</b> <span style="float: right;"><input type="checkbox"/> N/A</span>				
<b>Document Number</b>	<b>Rev.</b>	<b>Title</b>		
RPP-20444	02	241-A TANK FARM HISTORIC DOME LOAD RECORD DATA		
RPP-20445	02	241-AX TANK FARM HISTORIC DOME LOAD RECORD DATA		
RPP-20446	01	241-B TANK FARM HISTORIC DOME LOAD RECORD DATA		
RPP-20447	01	241-BX TANK FARM HISTORIC DOME LOAD RECORD DATA		
RPP-20448	01	241-BY TANK FARM HISTORIC DOME LOAD RECORD DATA		
RPP-20449	01	241-C TANK FARM HISTORIC DOME LOAD RECORD DATA		
RPP-20450	01	241-S TANK FARM HISTORIC DOME LOAD RECORD DATA		
RPP-20451	01	241-SX TANK FARM HISTORIC DOME LOAD RECORD DATA		
RPP-20452	01	241-T TANK FARM HISTORIC DOME LOAD RECORD DATA		
RPP-20453	01	241-TX TANK FARM HISTORIC DOME LOAD RECORD DATA		
RPP-20454	01	241-TY TANK FARM HISTORIC DOME LOAD RECORD DATA		
RPP-20455	01	241-U TANK FARM HISTORIC DOME LOAD RECORD DATA		

<b>DOCUMENT RELEASE AND CHANGE FORM</b>		<b>Doc No: RPP-RPT-55202 Rev. 02</b>
<b>14. Distribution</b>		
<b>Name</b>	<b>Organization</b>	
CASTLEBERRY, JIM L	TFP PROJECT MANAGEMENT	
GAUCK, GREGORY J	WASTE STORAGE & TECH SUPPORT ENGINEERING	
HAASS, MATT J		
MACKEY, TOM	ENGRNG PROGRAMS & STANDARDS	
MENDOZA, RUBEN E	WASTE STORAGE & TECH SUPPORT ENGINEERING	
VENETZ, TED J	TANK AND PIPELINE INTEGRITY	

## INFORMATION CLEARANCE REVIEW AND RELEASE APPROVAL

### Part I: Background Information

Title: <b>Dome Survey Report for Hanford Single-Shell Tanks</b>	Information Category: <input type="checkbox"/> Abstract <input type="checkbox"/> Journal Article <input type="checkbox"/> Summary <input type="checkbox"/> Internet <input type="checkbox"/> Visual Aid <input type="checkbox"/> Software <input type="checkbox"/> Full Paper <input checked="" type="checkbox"/> Report <input type="checkbox"/> Other
Publish to OSTI? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Yes    NA <input type="checkbox"/> <input checked="" type="checkbox"/>

Trademark/Copyright "Right to Use" Information or Permission Documentation	<input type="checkbox"/> <input checked="" type="checkbox"/>
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Document Number: RPP-RPT-55202 Revision 2	Date: August 2017
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Author: Venetz, Ted J

### Part II: External/Public Presentation Information

Conference Name:	
Sponsoring Organization(s): U.S. Department of Energy	
Date of Conference:	Conference Location:
Will Material be Handed Out? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Will Information be Published? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>(If Yes, attach copy of Conference format instructions/guidance.)</i>

### Part III: WRPS Document Originator Checklist

Description	Yes	N/A	Print/Sign/Date
Information Product meets requirements in TFC-BSM-AD-C-01?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Document Release Criteria in TFC-ENG-DESIGN-C-25 completed? (Attach checklist)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If product contains pictures, safety review completed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

### Part IV: WRPS Internal Review

Function	Organization	Date	Print Name/Signature/Date
Subject Matter Expert	WRPS	09/20/2017	Venetz, Ted J    IDMS Data File att.
Responsible Manager	WRPS	08/15/2017	Young, Natalie M    IDMS Data File att.
Other:			

### Part V: IRM Clearance Services Review

Description	Yes	No	Print Name/Signature
Document Contains Classified Information?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	If Answer is "Yes," ADC Approval Required  _____ Print Name/Signature/Date
Document Contains Information Restricted by DOE Operational Security Guidelines?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Reviewer Signature:  _____ Print Name/Signature/Date
Document is Subject to Release Restrictions? <i>If the answer is "Yes," please mark category at right and describe limitation or responsible organization below:</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Document contains: <input type="checkbox"/> Applied Technology <input type="checkbox"/> Protected CRADA <input type="checkbox"/> Personal/Private <input type="checkbox"/> Export Controlled <input type="checkbox"/> Proprietary <input type="checkbox"/> Procurement - Sensitive <input type="checkbox"/> Patentable Info. <input type="checkbox"/> OOU <input type="checkbox"/> Predecisional Info. <input type="checkbox"/> UCNI <input type="checkbox"/> Restricted by Operational Security Guidelines <input type="checkbox"/> Other (Specify) _____
Additional Comments from Information Clearance Specialist Review?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Information Clearance Specialist Approval <div style="border: 1px solid black; padding: 2px; display: inline-block; margin: 5px;"> <b>APPROVED</b>  <i>By Jenie Aerdal at 1:35 pm, Sep 20, 2017</i> </div> _____ Print Name/Signature/Date

**When IRM Clearance Review is Complete - Return to WRPS Originator for Final Signature Routing (Part VI)**