

# START

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PAGE

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<b>ENGINEERING CHANGE NOTICE</b>	1. ECN <b>629971</b>
Page 1 of <u>2</u>	Proj. ECN

<b>2. ECN Category (mark one)</b> Supplemental <input type="checkbox"/> Direct Revision <input checked="" type="checkbox"/> Change ECN <input type="checkbox"/> Temporary <input type="checkbox"/> Standby <input type="checkbox"/> Supersedure <input type="checkbox"/> Cancel/Void <input type="checkbox"/>	<b>3. Originator's Name, Organization, MSIN, and Telephone No.</b> R. A. Bechtold, Data Management, K7-22, 375-3882	<b>3a. USQ Required?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<b>4. Date</b> 04/15/96	
	<b>5. Project Title/No./Work Order No.</b> Tank 241-AY-102	<b>6. Bldg./Sys./Fac. No.</b> 241-AY-102	<b>7. Approval Designator</b> N/A	
	<b>8. Document Numbers Changed by this ECN (includes sheet no. and rev.)</b> WHC-SD-WM-ER-454, Rev. 0	<b>9. Related ECN No(s).</b> N/A	<b>10. Related PO No.</b> N/A	

<b>11a. Modification Work</b> <input type="checkbox"/> Yes (fill out Blk. 11b) <input checked="" type="checkbox"/> No (NA Blks. 11b, 11c, 11d)	<b>11b. Work Package No.</b> N/A	<b>11c. Modification Work Complete</b> N/A _____ Cog. Engineer Signature & Date	<b>11d. Restored to Original Condition (Temp. or Standby ECN only)</b> N/A _____ Cog. Engineer Signature & Date
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**12. Description of Change**  
 This ECN is being generated in order to exchange page B-10 only.

**13a. Justification (mark one)**

Criteria Change <input checked="" type="checkbox"/>	Design Improvement <input type="checkbox"/>	Environmental <input type="checkbox"/>	Facility Deactivation <input type="checkbox"/>
As-Found <input type="checkbox"/>	Facilitate Const <input type="checkbox"/>	Const. Error/Omission <input type="checkbox"/>	Design Error/Omission <input type="checkbox"/>

**13b. Justification Details**  
 This ECN needed to be generated in order to remove percent symbol from SpG and pH which were reflected in Table B-4 on page B-10.

**14. Distribution (include name, MSIN, and no. of copies)**  
 See attached distribution sheets.

RELEASE STAMP

APR 15 1996

DATE: APR 15 1996  
 STA: 4 HANFORD RELEASE ID: 58

**ENGINEERING CHANGE NOTICE**

15. Design Verification Required <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	16. Cost Impact				17. Schedule Impact (days) Improvement <input type="checkbox"/> Delay <input type="checkbox"/>
	ENGINEERING		CONSTRUCTION		
	Additional <input type="checkbox"/> \$	Savings <input type="checkbox"/> \$	Additional <input type="checkbox"/> \$	Savings <input type="checkbox"/> \$	

18. Change Impact Review: Indicate the related documents (other than the engineering documents identified on Side 1) that will be affected by the change described in Block 12. Enter the affected document number in Block 19.

SDD/DD	<input type="checkbox"/>	Seismic/Stress Analysis	<input type="checkbox"/>	Tank Calibration Manual	<input type="checkbox"/>
Functional Design Criteria	<input type="checkbox"/>	Stress/Design Report	<input type="checkbox"/>	Health Physics Procedure	<input type="checkbox"/>
Operating Specification	<input type="checkbox"/>	Interface Control Drawing	<input type="checkbox"/>	Spares Multiple Unit Listing	<input type="checkbox"/>
Criticality Specification	<input type="checkbox"/>	Calibration Procedure	<input type="checkbox"/>	Test Procedures/Specification	<input type="checkbox"/>
Conceptual Design Report	<input type="checkbox"/>	Installation Procedure	<input type="checkbox"/>	Component Index	<input type="checkbox"/>
Equipment Spec.	<input type="checkbox"/>	Maintenance Procedure	<input type="checkbox"/>	ASME Coded Item	<input type="checkbox"/>
Const. Spec.	<input type="checkbox"/>	Engineering Procedure	<input type="checkbox"/>	Human Factor Consideration	<input type="checkbox"/>
Procurement Spec.	<input type="checkbox"/>	Operating Instruction	<input type="checkbox"/>	Computer Software	<input type="checkbox"/>
Vendor Information	<input type="checkbox"/>	Operating Procedure	<input type="checkbox"/>	Electric Circuit Schedule	<input type="checkbox"/>
OM Manual	<input type="checkbox"/>	Operational Safety Requirement	<input type="checkbox"/>	ICRS Procedure	<input type="checkbox"/>
FSAR/SAR	<input type="checkbox"/>	IEFD Drawing	<input type="checkbox"/>	Process Control Manual/Plan	<input type="checkbox"/>
Safety Equipment List	<input type="checkbox"/>	Cell Arrangement Drawing	<input type="checkbox"/>	Process Flow Chart	<input type="checkbox"/>
Radiation Work Permit	<input type="checkbox"/>	Essential Material Specification	<input type="checkbox"/>	Purchase Requisition	<input type="checkbox"/>
Environmental Impact Statement	<input type="checkbox"/>	Fac. Proc. Samp. Schedule	<input type="checkbox"/>	Tickler File	<input type="checkbox"/>
Environmental Report	<input type="checkbox"/>	Inspection Plan	<input type="checkbox"/>		<input type="checkbox"/>
Environmental Permit	<input type="checkbox"/>	Inventory Adjustment Request	<input type="checkbox"/>		<input type="checkbox"/>

19. Other Affected Documents: (NOTE: Documents listed below will not be revised by this ECN.) Signatures below indicate that the signing organization has been notified of other affected documents listed below.

Document Number/Revision	Document Number/Revision	Document Number/Revision
N/A		

20. Approvals

Signature	Date	Signature	Date
<u>OPERATIONS AND ENGINEERING</u>		<u>ARCHITECT-ENGINEER</u>	
Cog. Eng. L.M. Sasaki <i>L.M. Sasaki</i>	<u>4/15/96</u>	PE	_____
Cog. Mgr. J.G. Kristofzski <i>John G. Kristofzski</i>	<u>4/15/96</u>	QA	_____
QA	_____	Safety	_____
Safety	_____	Design	_____
Environ.	_____	Environ.	_____
Other R.A. Bechtold <i>R.A. Bechtold</i>	<u>4/15/96</u>	Other	_____
	_____		_____
	_____		_____
	_____	<u>DEPARTMENT OF ENERGY</u>	_____
	_____	Signature or a Control Number that tracks the Approval Signature	_____
	_____	<u>ADDITIONAL</u>	_____
	_____		_____
	_____		_____
	_____		_____

## Tank Characterization Report for Double-Shell Tank 241-AY-102

Leela M. Sasaki

Westinghouse Hanford Company, Richland, WA 99352  
U.S. Department of Energy Contract DE-AC06-87RL10930

EDT/ECN: ECN-629971 UC: 2070  
Org Code: 79400 Charge Code: N4G4B  
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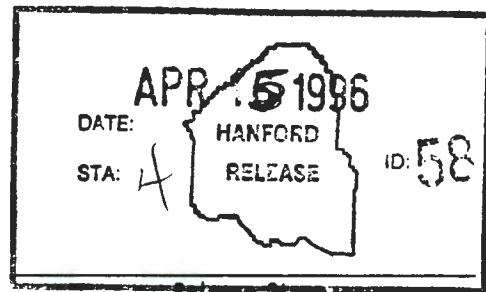
Key Words: Tank 241-AY-102, Tank AY-102, AY-102, AY Farm, Tank  
Characterization Report, TCR, Waste Inventory, TPA Milestone M-44

Abstract: N/A

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Release Approval \_\_\_\_\_ Date 10/15/94



Approved for Public Release



RECORD OF REVISION

(1) Document Number

WHC-SD-WM-ER-454

Page 1

(2) Title

Tank Characterization Report for Double-Shell Tank 241-AY-102

CHANGE CONTROL RECORD

(3) Revision

(4) Description of Change - Replace, Add, and Delete Pages

Authorized for Release

(5) Cog. Engr.

(6) Cog. Mgr.

Date

0

(7) Initially released 07/06/95 on EDT-612092.

G.W. Ryan

J.G. Kristofzski

RS 0-A

Incorporate per ECN-629971.

L.M. Sasaki

J.G. Kristofzski

*L.M. Sasaki*

*J.G. Kristofzski 4/15/96*

Table B-4. Tank 241-AY-102 Analytical Data: PHYSICAL PROPERTIES.

Analyte	Sample number	Result	Mean	Relative standard deviation (mean) %	Projected inventory NA
TGA.d. %water	R5393	98.8	98.4	0.959	NA
	R5394	98.8			
	R5395	97.8			
[H <sup>+</sup> ].d.pH	R5393	10.8	11.1	4.86	NA
	R5394	10.8			
	R5395	10.8			
[H <sup>+</sup> ].b.pH	R6703	11.9			
	R6704	11.9			
	R6705	11.8			
D.SpG	R5393	0.994	0.990	0.363	NA
	R5394	0.992			
	R5395	0.987			

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		ECN No. ECN-629971

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