

# START

## ENGINEERING CHANGE NOTICE

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1 ECN **196500**  
Proj ECN

2. ECN Category (mark one) Supplemental <input checked="" type="checkbox"/> Direct Revision <input checked="" type="checkbox"/> Change ECN <u>7/8/93</u> <input type="checkbox"/> Temporary <input type="checkbox"/> Standby <input type="checkbox"/> Supersecure <input type="checkbox"/> Cancel/Void <input type="checkbox"/>	3. Originator's Name, Organization, MSIN, and Telephone No. <b>R. L. SHAYER, HANFORD ANALYTICAL SERVICES MANAGMENT, H4-23, 373-3295</b>		4. Date <b>06/28/93</b>
	5. Project Title/No./Work Order No. <b>TANK 241-BX-107</b>	6. Bldg./Sys./Fac. No. <b>NA</b>	7. Impact Level <b>30</b>
8. Document Numbers Changed by this ECN (includes sheet no. and rev.) <b>WHC-SD-WN-DP-028, REV 0</b>		9. Related ECN No(s). <b>NA</b>	10. Related PO No. <b>NA</b>

11a. Modification Work <input type="checkbox"/> Yes (fill out Bks. 11b) <input checked="" type="checkbox"/> No (NA Bks. 11b, 11c, 11d)	11b. Work Package No. <b>NA</b>	11c. Modification Work Complete <b>NA</b> _____ Cog. Engineer Signature & Date	11d. Restored to Original Condition (Temp. or Standby ECN only) <b>NA</b> _____ Cog. Engineer Signature & Date
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12. Description of Change  
The following addendums are being added to the existing base document and addendums. The addendums being added are as follows:

**Addendum 3, "222-S LABORATORIES SINGLE SHELL TANK WASTE CHARACTERIZATION, TANK 241-BX-107 CORES 40 AND 41 - RAW DATA "**

**Addendum 4, "PNL 325 LABORATORIES SINGLE SHELL TANK WASTE CHARACTERIZATION, TANK 241-BX-107 CORES 40 AND 41 - DATA PACKAGE"**

**Addendum 5, "PNL 325 LABORATORIES SINGLE SHELL TANK WASTE CHARACTERIZATION, TANK 241-BX-107 CORES 40 AND 41 - VALIDATION SUMMARY"**

13a. Justification (mark one) As-Found <input type="checkbox"/>	Criteria Change <input type="checkbox"/>	Design Improvement <input type="checkbox"/>	Environmental <input checked="" type="checkbox"/>
	Facilitate Const. <input type="checkbox"/>	Const. Error/Omission <input type="checkbox"/>	Design Error/Omission <input type="checkbox"/>

13b. Justification Details  
**Project 241-BX-107 CORES 40 AND 41 HAS BEEN COMPLETED.**

14. Distribution (include name, MSIN, and no. of copies) Please see Distribution for each addendum	RELEASE STAMP
	OFFICIAL RELEASE <b>(13)</b> BY WHC DATE <b>JUL 08 1993</b> _____ STB H

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# ENGINEERING CHANGE NOTICE

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Design Verification Required <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	% Cost Impact		CONSTRUCTION		Improvement <input type="checkbox"/> Delay <input type="checkbox"/>
	ENGINEERING	Additional <input type="checkbox"/> \$	Additional <input type="checkbox"/> \$	Savings <input type="checkbox"/> \$	
	Savings <input type="checkbox"/> \$	Savings <input type="checkbox"/> \$	Savings <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.

SND 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"/>	Space Multiple Unit Listing	<input type="checkbox"/>
Reliability Specification	<input type="checkbox"/>	Calibration Procedure	<input type="checkbox"/>	Test Procedures, Simulation	<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 Codes/Items	<input type="checkbox"/>
Process Spec	<input type="checkbox"/>	Engineering Procedure	<input type="checkbox"/>	Human Factors Consideration	<input type="checkbox"/>
Measurement 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"/>
UIR Manual	<input type="checkbox"/>	Operational Safety Requirement	<input type="checkbox"/>	ICRS Procedure	<input type="checkbox"/>
TSAR SAR	<input type="checkbox"/>	RFD Drawing	<input type="checkbox"/>	Process Control Manual/Plan	<input type="checkbox"/>
Safety Equipment List	<input type="checkbox"/>	Coil 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. Comp. Schedule	<input type="checkbox"/>		<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 ECR.) 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
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20. Approvals

	Signature	Date		Signature	Date
OPERATIONS AND ENGINEERING			ARCHITECT-ENGINEER		
Co-Engineer	R. L. SHAVER	6/28/93	PE		
Co-Mgr.	K. H. POOL	6/28/93	SA		
QA	J. C. LANGFORD		Safety		
Safety			Design		
Security			Environ.		
Environ.			Other		
Projects/Programs					
Tank Waste Remediation System					
Facilities Operations			DEPARTMENT OF ENERGY		
Restoration & Remediation			Signature or Letter No.		
Operations & Support Services					
IRM			ADDITIONAL		
Other					

Date of Request: **6/28/93**

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			List attachments. <b>NA ECN 196500</b>
			Date Release Required <b>06/28/93</b>

Title <b>SINGLE SHELL TANK WASTE CHARACTERIZATION 241-BX-107 CORES 40 AND 41</b>	Unclassified Category <b>UC-</b>	Impact Level <b>3Q</b>
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Is, or may it contain, subject matter? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes if "yes" has disclosure been submitted by WMC or other company? <input type="checkbox"/> No <input type="checkbox"/> Yes (Disclosure Note)	Information received from others in confidence, such as proprietary data, trade secrets, and/or inventions? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Identify)
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**CHECKLIST FOR SIGNATORIES**

Review Required per WMC-CN-3-6	Yes	No	Reviewer - Signature Indicates Approval	Date
			Name (printed)	Signature
Classification Unclassified Controlled Nuclear Information	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
Patent - General Counsel	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Per OGC memo 2-4-93	
Legal - General Counsel	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Per OGC memo 2-4-93	
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References Available to Intended Audience <input type="checkbox"/> Yes <input type="checkbox"/> No	Transmit to DOE HQ-Office of Scientific and Technical Information <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<b>INFORMATION RELEASE ADMINISTRATION APPROVAL STAMP</b> Stamp is required before release. Release is contingent upon resolution of mandatory comments. 
Author/Requestor (Printed/Signature) <b>K. K. GIAMBERARDINI</b>	Date <b>6-28-93</b>	
Intended Audience <input type="checkbox"/> Internal <input type="checkbox"/> Sponsor <input checked="" type="checkbox"/> External	Responsible Manager (Printed/Signature) <b>K. K. GIAMBERARDINI</b>	Date Canceled _____ Date Disapproved _____

Lead Author NA	Phone 3-3076	NSIN T6-06	Other Author(s) or Requestor REQUESTOR: K. K. GIAMBERARDINI		
Project or Program WASTE MANAGEMENT	Lead Org Code 12610		Sponsor Agency (DOE, DOT, NRC, USGS, etc.) DOE		
Editor NA	Phone NA	NSIN NA	DOE/NO Program (DP, EN, EM, ME, etc.) EM		
Mandatory Comments (Only mandatory comments are to be documented. All other comments should be made on a copy of the information submitted for review and returned to the author.)	Reviewer Name & Signature	Date	Resolution	Reviewer Name & Signature	Date
Legends/Notices/Markings (required per WMC-CR-3-4 or guidance organization.) (Reviewer initials)					
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Patent Status	[ ]	[ ]			
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Additional Information					

<b>SUPPORTING DOCUMENT</b>		1. Total Pages <b>5252</b>
2. Title <b>SINGLE SHELL TANK WASTE CHARACTERIZATION, TANK 241-BX-107 CORES 40 AND 41</b>		3. Number <b>MHC-SD-WM-OP-028</b>
5. Key words <b>SINGLE SHELL TANK, WASTE CHARACTERIZATION, TANK 241-BX-107, VALIDATION SUMMARY, DATA PACKAGE</b>		4. Rev No. <b>0-A</b>
6. Author Name: <b>R. L. SHAVER</b> <i>RL Shaver 6-28-93</i> Signature Organization/Charge Code <b>12610/J120H</b>		
7. Abstract <i>V. Bukland 6/28/93</i>		
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9. Track Level <b>30</b>		

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		<b>Date 6/28/93</b>
<b>Project Title/Work Order</b> <b>PNL 325 LABORATORIES SINGLE SHELL TANK WASTE CHARACTERIZATION,</b> <b>TANK 241-BX-107 CORES 40 AND 41 DATA PACKAGE, AND</b> <b>VALIDATION SUMMARY</b> <b>WHC-SD-WM-OP-028 REVOA ADDENDUM 3,4, AND 5</b> <b>(NO DISTRIBUTION ON ADDENDUM 3)</b>		<b>EDT No.</b>
		<b>ECN NO. 196500</b>

<b>Name</b>	<b>MSIN</b>	<b>Text With all Attach</b>	<b>Addendum 5 Only</b>	<b>EDT/ECN Only</b>
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**Environmental Protection Agency**

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