

# ENGINEERING CHANGE NOTICE

0015957

1. ECN **150201**

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Proj.  
ECN

**2. ECN Category (mark one)**

- Supplemental
- Direct Revision
- Change ECN
- Temporary
- Supersedure
- Discovery
- Cancel/Void

**3. Originator's Name, Organization, MSIN, and Telephone No.**

**J. A. Caggiano, Geosciences, H5-29, 6-4906**

65615

**4. Date**

7/24/91

**5. Project Title/No./Work Order No. Interim-Status**  
Groundwater Monitoring Plan for the Single-Shell Tanks

**6. Bldg./Sys./Fac. No.**

**7. Impact Level**

3

**8. Document Number Affected (include rev. and sheet no.)**  
WHC-SD-EN-AP-012, Rev. 0 *ib*

**9. Related ECN No(s).**

144228

**10. Related PO No.**

**11a. Modification Work**

- Yes (fill out Blk. 11b)
- No (NA Blks. 11b, 11c, 11d)

**11b. Work Package Doc. No.**

N/A

**11c. Complete Installation Work**

N/A

Cog. Engineer Signature & Date

**11d. Complete Restoration (Temp. ECN only)**

N/A

Cog. Engineer Signature & Date

**12. Description of Change**

This revision of the groundwater monitoring plan expands the Single-Shell Tank (SST) groundwater monitoring network to bring the network closer to compliance with requirements for groundwater monitoring in WAC 173-300 and 40 CFR 265. The revision incorporates the location, construction specifications, as-built diagrams and geologic logs (including moisture and CaCO3 content) from 23 RCRA Standard wells that were constructed in the Single-Shell Tanks in 1989 and 1990. RCRA Standard wells constructed for adjacent facilities are also incorporated into the SST groundwater monitoring network. Cross-sections incorporating the data from these new wells are added to those presented in WHC-EN-AP-012 - Rev. 0. Data Quality Objectives (DQO) consistent with the Ecology/EPA policy on existing wells are presented for all groundwater monitoring wells in the SST network. NOD comments from Ecology on WHC-EN-AP-012 - Rev. 0 are also incorporated.

Location and justification for 11 new RCRA Standard wells in the SST groundwater monitoring network are provided consistent with Milestone M24-00 of the Tri-Party Agreement. Construction of these wells will begin in 1991.



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

- Criteria Change
- Design Improvement
- Environmental
- As-Found
- Facilitate Const.
- Const. Error/Omission
- Design Error/Omission

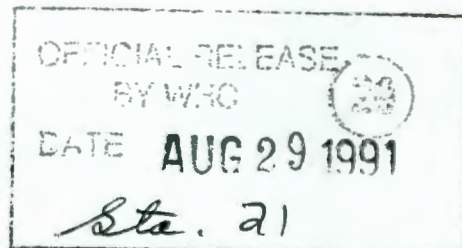
**13b. Justification Details**

Locations and justifications are proposed for 11 new RCRA Standard groundwater monitoring wells to be located at waste management areas B-BX-BY (2), S-SX (4), T (2), TX-TY (1) and U (2). These wells along with RCRA Standard wells constructed in 1989 and 1990 at nearby facilities bring the SST network closer to compliance with requirements in WAC 173-303 and 40 CFR 265, Subpart F.

**14. Distribution (include name, MSIN, and no. of copies)**

See attached

**RELEASE STAMP**





# ENGINEERING CHANGE NOTICE

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1 ECN (use no. from pg. 1)  
150201

<b>15. Design Verification Required</b> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No	<b>16. Cost Impact</b> <table style="width: 100%;"> <tr> <td style="width: 50%; text-align: center;">ENGINEERING</td> <td style="width: 50%; text-align: center;">CONSTRUCTION</td> </tr> <tr> <td style="text-align: center;">N/A</td> <td style="text-align: center;">N/A</td> </tr> <tr> <td>Additional <input type="checkbox"/> \$ _____</td> <td>Additional <input type="checkbox"/> \$ _____</td> </tr> <tr> <td>Savings <input type="checkbox"/> \$ _____</td> <td>Savings <input type="checkbox"/> \$ _____</td> </tr> </table>	ENGINEERING	CONSTRUCTION	N/A	N/A	Additional <input type="checkbox"/> \$ _____	Additional <input type="checkbox"/> \$ _____	Savings <input type="checkbox"/> \$ _____	Savings <input type="checkbox"/> \$ _____	<b>17. Schedule Impact (days)</b> N/A Improvement <input type="checkbox"/> _____ Delay <input type="checkbox"/> _____
ENGINEERING	CONSTRUCTION									
N/A	N/A									
Additional <input type="checkbox"/> \$ _____	Additional <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.

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

**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
_____	_____	_____
_____	_____	_____
_____	_____	_____

**20. Approvals**

Signature	Date	Signature	Date
<b>OPERATIONS AND ENGINEERING</b>		<b>ARCHITECT-ENGINEER</b>	
Cog./Project Engineer <u>B.A. Williams</u>	<u>8/2/91</u>	PE _____	_____
Cog./Project Engr. Mgr. <u>A.J. Knepp</u>	<u>8/2/91</u>	QA _____	_____
QA <u>D.G. Farwick</u>	<u>8/19/91</u>	Safety _____	_____
Safety <u>N/A</u>	_____	Design _____	_____
Security _____	_____	Other _____	_____
Proj. Prog./Dept. Mgr. _____	_____	_____	_____
Def. React. Div. _____	_____	_____	_____
Chem. Proc. Div. _____	_____	_____	_____
Def. Wst. Mgmt. Div. _____	_____	_____	_____
Adv. React. Dev. Div. _____	_____	_____	_____
Proj. Dept. _____	_____	_____	_____
Environ. Div. _____	_____	_____	_____
IRM Dept. _____	_____	_____	_____
Facility Rep. (Ops) _____	_____	_____	_____
Other <u>R.L. Jackson</u>	<u>8/2/91</u>	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____



## DISTRIBUTION SHEET

To Distribution	From J. A. Caggiano	Page <u> 2 </u> of <u> 2 </u> Date July 15, 1991
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Project Title/Work Order RCRA Groundwater Monitoring Plan for the Single Shell Tanks	EDT No.  ECN No. <u> 150201 </u>
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Name	MSIN	With Attach.	EDT/ECN & Comment	EDT/ECN Only
J. A. Caggiano	H4-56	X		
K. R. Fecht	H4-56	X		
M. R. Adams	H4-55	X		
R. L. Jackson	H4-56	X		
A. J. Knepp	H4-56			
R. J. Landon	B2-19			
S. M. Price	H4-57	X		
W. H. Price	N3-05	X		
D. S. Takasumi	R3-27	X		
R. R. Thompson	L4-88			
L. W. Vance	H4-16	X		
Tank Farm Information Center	R1-80	X		
Central Files	L8-04	X		
EDMC	H4-22	X		
M. J. Furman	A5-21	X		
R. D. Miller (5)	H4-56	X		
B. A. Williams	H4-56	X		