

ENGINEERING CHANGE NOTICE

1. ECN 600255

Proj. ECN

2. ECN Category (mark one) Supplemental <input checked="" type="checkbox"/> Direct Revision <input type="checkbox"/> Change ECN <input type="checkbox"/> Temporary <input type="checkbox"/> Standby <input type="checkbox"/> Supersedure <input type="checkbox"/> Cancel/Void <input type="checkbox"/>	3. Originator's Name, Organization, MSIN, and Telephone No. P. W. Griffin, 85100, R2-77, 373-3916		4. Date 08/02/93	
	5. Project Title/No./Work Order No. Transfer Area Roof Replacement	6. Bldg./Sys./Fac. No. 105-F	7. Impact Level 3S	
	3. Document Numbers Changed by this ECN (includes sheet no. and rev.) HW-71816 sh 1 Rev 31		9. Related ECN No(s). N/A	10. Related PO No.

11a. Modification Work <input checked="" type="checkbox"/> Yes (fill out 31k, 11b) <input type="checkbox"/> No (NA 31ks, 11b, 11c, 11d)	11b. Work Package No. (KEH) LOI 9250436.3	11c. Modification Work Complete Cog. Engineer Signature & Date	11d. Restored to Original Condition (Temp. or Standby ECN only) Cog. Engineer Signature & Date
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12. Description of Change

The transfer Area of the 105-F needs to have the roof deck replaced because of the deterioration.

ECN 600255 gives roof decking supplemental attachment details.

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

Amend fastening steel roof decks to support beams method to allow "or equal" fastening method.

14. Distribution (include name, MSIN, and no. of copies) P. W. Griffin, R2-77 (2) D. R. Kachele, S4-67 (1) R. G. Shuck, S4-67 (1) R. G. Egge, R2-77 (1) DE Files, R2-77 (1)	RELEASE STAMP OFFICIAL RELEASE BY WHC DATE JUL 28 1993 STA 4
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15. Design Verification Required <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	16. Cost Impact <table style="width: 100%;"> <tr> <th style="width: 50%;">ENGINEERING</th> <th style="width: 50%;">CONSTRUCTION</th> </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	Additional <input type="checkbox"/> \$	Additional <input type="checkbox"/> \$	Savings <input type="checkbox"/> \$	Savings <input type="checkbox"/> \$	17. Schedule Impact (days) Improvement <input type="checkbox"/> Delay <input type="checkbox"/>
ENGINEERING	CONSTRUCTION							
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.

SDD/OD	<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"/>		<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

20. Approvals

Signature	Date	Signature	Date
OPERATIONS AND ENGINEERING		ARCHITECT-ENGINEER	
Cog Engineer P. W. Griffin <i>P.W. Griffin</i>	<u>7-28-93</u>	PE	_____
Cog. Mgr. M. A. Mihalic <i>M. Mihalic</i>	<u>7.28.93</u>	QA	_____
QA		Safety	_____
Safety M. A. Tredway <i>Steve R. Staley for M.A. Tredway</i>	<u>7/29/93</u>	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			_____

DRAWING NOTE CHANGE (HW-71816, Rev 31, Sht. 1)

IS (ENCLOSED AREA - **UPDATED**)

ECN INFORMATION:

- 1) Attach using liquid nail and mason nails (12" centers) a 1x6 inch board around and flush with the top of the block on the transfer area where the new roof is going to be. See page 4. (ECN 167447)
- 2) Use 20 gauge type HSB-36 for the new roof decking. It comes in any length necessary. See page 6. (ECN 167447)
- 3) Decking will be attached by puddle welds (3/8" x 1) or equal attaching method to every beam and in all flutes. Decking will be held together using a 3/16" diameter button punch on 12" centers. See page 7 and 8 for more details. (ECN 167447)

* NOTE: Field fit shims attached by welds or equal attaching method to allow decking to fit over the block wall on the edges.
- 4) Flashing will be fabricated from 18 gauge galvanized sheet metal and will be attached to the wood by 1/2" sheet rock screws on 6" centers and to the decking by 3/4" to 1" No. 8 sheet metal screws every third flute. See page 4 for details. (ECN 167447)
- 5) Field fit decking and flashing to Reactor Building wall. Roof will then be swept clean and entire roof will be foamed.

WAS SEE DRAWING

9250436.4
Attachment 3
Total Pages 3