

START

ENGINEERING CHANGE NOTICE

0022881

Page 1 of 4

1. ECN ~~154140~~
Proj. ECN B-714-92

2. ECN Category (mark one)

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

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

R. G. Hollenbeck, KEH, E6-25, 6-1836

4. Date

05-23-91

5. Project Title/No./Work Order No.

See Block 12

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

218-E-16

7. Impact Level

2

8. Document Number Affected (include rev. and sheet no.)

See Block 12

9. Related ECN No(s).

B-714-83

10. Related PO No.

N/A

11a. Modification Work

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

UNKNOWN

11b. Work Package Doc. No.

UNKNOWN

11c. Complete Installation Work

Cog. Engineer Signature & Date

11d. Complete Restoration (Temp. ECN only)

Cog. Engineer Signature & Date

12. Description of Change

Block 5: B-714, GROUT VAULT PAIR (218-E-16-102 & 103)(218-E-16-104 & 105)/ER8007

Block 8: SPECIFICATION B-714-C2, REV 1 (V-B714C2-003, REV 1)

SEE SUCCEEDING PAGES FOR DESCRIPTION OF CHANGES



APPROVED FOR PUBLIC RELEASE

8/20/91 A. Solis

13a. Justification (mark one)

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

13b. Justification Details

Reference Engineering Report B714ER, Evaluation of Coating Test. Material application exhibits unacceptable characteristics with existing surface finish.

THIS CHANGE DOES NOT IMPACT THE INTEGRITY OF THE ORIGINAL DESIGN

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

<u>KEH DISTRIBUTION</u>		J. K. Epperley	S0-05
Const Doc Cntl	E2-50	O. A. Halverson	R3-10
Engrg Doc Cntl	E6-52	J. S. Hill [2]	H4-57
		K. S. McCullough	N1-83
		D. B. Powell [4]	R4-03
		J. E. Vanbeek	R3-27
<u>WHC DISTRIBUTION</u>		<u>DOE</u>	
Project Files	R1-28	A. G. Lassila	A5-18
S. R. Briggs(PE)	R3-27		
T. K. Cordray	S1-54		
L. Garza	A3-80		
Sta. 10	A3-87		

RELEASE STAMP

OFFICIAL RELEASE
BY WHC
DATE JUN 06 1991
Sta. 4

ENGINEERING CHANGE NOTICE

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

B-714-92

15. Design Verification Required

- Yes
 No

16. Cost Impact

ENGINEERING

- Additional \$ 10,600
Savings \$ _____

CONSTRUCTION

- Additional \$ 397,800
Savings \$ _____

17. Schedule Impact (days)

- Improvement _____
Delay 34 days

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.

<p>SDD/DD <input type="checkbox"/></p> <p>Functional Design Criteria <input type="checkbox"/></p> <p>Operating Specification <input type="checkbox"/></p> <p>Criticality Specification <input type="checkbox"/></p> <p>Conceptual Design Report <input type="checkbox"/></p> <p>Equipment Spec. <input type="checkbox"/></p> <p>Const. Spec. <input type="checkbox"/></p> <p>Procurement Spec. <input type="checkbox"/></p> <p>Vendor Information <input type="checkbox"/></p> <p>OM Manual <input type="checkbox"/></p> <p>FSAR/SAR <input type="checkbox"/></p> <p>Safety Equipment List <input type="checkbox"/></p> <p>Radiation Work Permit <input type="checkbox"/></p> <p>Environmental Impact Statement <input type="checkbox"/></p> <p>Environmental Report <input type="checkbox"/></p> <p>Environmental Permit <input checked="" type="checkbox"/></p>	<p>Seismic/Stress Analysis <input type="checkbox"/></p> <p>Stress/Design Report <input type="checkbox"/></p> <p>Interface Control Drawing <input type="checkbox"/></p> <p>Calibration Procedure <input type="checkbox"/></p> <p>Installation Procedure <input type="checkbox"/></p> <p>Maintenance Procedure <input type="checkbox"/></p> <p>Engineering Procedure <input type="checkbox"/></p> <p>Operating Instruction <input type="checkbox"/></p> <p>Operating Procedure <input type="checkbox"/></p> <p>Operational Safety Requirement <input type="checkbox"/></p> <p>IEFD Drawing <input type="checkbox"/></p> <p>Cell Arrangement Drawing <input type="checkbox"/></p> <p>Essential Material Specification <input type="checkbox"/></p> <p>Fac. Proc. Samp. Schedule <input type="checkbox"/></p> <p>Inspection Plan <input type="checkbox"/></p> <p>Inventory Adjustment Request <input type="checkbox"/></p>	<p>Tank Calibration Manual <input type="checkbox"/></p> <p>Health Physics Procedure <input type="checkbox"/></p> <p>Spares Multiple Unit Listing <input type="checkbox"/></p> <p>Test Procedures/Specification <input type="checkbox"/></p> <p>Component Index <input type="checkbox"/></p> <p>ASME Coded Item <input type="checkbox"/></p> <p>Human Factor Consideration <input type="checkbox"/></p> <p>Computer Software <input type="checkbox"/></p> <p>Electric Circuit Schedule <input type="checkbox"/></p> <p>ICRS Procedure <input type="checkbox"/></p> <p>Process Control Manual/Plan <input type="checkbox"/></p> <p>Process Flow Chart <input type="checkbox"/></p> <p>Purchase Requisition <input type="checkbox"/></p> <p>_____ <input type="checkbox"/></p> <p>_____ <input type="checkbox"/></p> <p>_____ <input type="checkbox"/></p>
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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
OPERATIONS AND ENGINEERING		
Cog./Project Engineer	<u>LR. Bunn</u>	<u>6/4/91</u>
Cog./Project Engr. Mgr.	<u>[Signature]</u>	<u>6/4/91</u>
QA	<u>J. K. [Signature]</u>	<u>6-4-91</u>
Safety	<u>[Signature]</u>	<u>6/4/91</u>
Security	_____	_____
Proj. Prog./Dept. Mgr.	_____	_____
Def. React. Div.	_____	_____
Chem. Proc. Div.	_____	_____
Def. Wst. Mgmt. Div.	<u>Ren [Signature]</u>	<u>6/4/91</u>
Adv. React. Dev. Div.	_____	_____
Proj. Dept.	_____	_____
Environ. Div.	_____	_____
IRM Dept.	_____	_____
Facility Req. (Ops)	_____	_____
Other	<u>[Signature]</u>	<u>6/4/91</u>
ENVIORN. ASSURANCE		

	Signature	Date
ARCHITECT-ENGINEER		
PE	<u>LC Burgard</u>	<u>5/31/91</u>
QA	<u>[Signature]</u>	<u>5/31/91</u>
Safety	<u>[Signature]</u>	<u>5-31-91</u>
Design	<u>ENVIR: R. Hallett</u>	<u>5/31/91</u>
Other	<u>CS: [Signature]</u>	<u>5/31/91</u>
	<u>SPECS: [Signature]</u>	<u>5-31-91</u>
	<u>ENVIR: R. Hallett</u>	<u>5-31-91</u>

DEPARTMENT OF ENERGY

ADDITIONAL

92120690

1) SECTION 03301

DELETE subparagraph 3.2.13.2 and REPLACE with new subparagraph as follows:

3.2.13.2 Grout Cleaned Finishes: Remove forms in accordance with Paragraph 3.2.11 and complete patching as soon after form removal as possible without jeopardizing structure. Prepare surface and mix grout in accordance with the following:

a. Interior walls of concrete basin: Light sandblast or low pressure waterblast to remove laitance and expose airhole(s). Mix one part portland cement and 1-1/2 parts fine sand with sufficient water to produce grout having consistency of thick paint. Wet surface of concrete sufficiently to prevent absorption of water from grout and apply grout uniformly. Immediately after grout application, scrub surface vigorously with cork float or stone to coat surface and fill air bubbles and holes. While grout is still plastic, remove excess grout by working surface with rubber float, burlap or other means. After surface whitens from drying (30 minutes at normal temperature), rub vigorously with clean burlap. Keep finish damp for 36 hours after final rub.

b. Interior walls of concrete vault: Medium sandblast to remove laitance and expose airhole(s). Mix one part portland cement and one part fine sand with sufficient water to produce grout having consistency of thick paint. Wet surface of concrete sufficiently to prevent absorption of water from grout and apply grout uniformly. Immediately after grout application work surface with rubber float to fill airhole(s) and bubbles. While grout is still plastic, strike off excess grout by steel trowel. Apply additional material to areas of exposed airhole(s) or bubbles resulting from steel trowel stike off. After surface dries sufficiently to prevent damage, rub clean with dry burlap. Keep finish damp for 36 hours after final rub.

2) SECTION 09885 (affects ECN B-714-83)

A) Subparagraph 3.2.1.1: Change "preparing surface" to "applying primer"

B) DELETE Subparagraph 3.2.2.2 in its entirety including subarticles a., b., c., d. and e.

C) ADD new Subparagraph 3.2.2.2 as follows:

3.2.2.2 Prepare interior walls in accordance with Section 03301, Subparagraph 3.2.13.2, Grout Cleaned Finishes.

D) Renumber Subparagraph 3.2.2.3 to 3.2.2.4

E) Renumber Subparagraph 3.2.2.4 to 3.2.2.3 AND change to read as follows:

3.2.2.3 Before applying primer, test concrete for presence of moisture in accordance with Subparagraph 3.4.1.1 of this Section.

F) Renumber Subparagraph 3.4.1.1, 3.4.1.2, 3.4.1.3 and 3.4.1.4 to 3.4.1.2, 3.4.1.3, 3.4.1.4 and 3.4.1.5 respectively.

