

ENGINEERING CHANGE NOTICE

Page 1 of 4

1. ECN 106887

Proj.
ECN

4. Date
8/30/90

7. Impact Level
4

10. Related PO No.

2. E&N Category (mark one)

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

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

JD Ludowise, 23190, R1-16, 3-1617

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

UE5G2

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

Strontium
Semiworks

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

WHC-SD-DD-PAP-002 REV 0

9. Related ECN No(s).

123653

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

SEE CONTINUATION PAGES

13a. Justification (mark one)

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

13b. Justification Details

Clarification of text

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

RELEASE STAMP

OFFICIAL RELEASE

BY A.D.

DATE SEP 05 1990

2jm

STA. 4

ENGINEERING CHANGE NOTICE

15. Design Verification Required

Yes
 No

16. Cost Impact

ENGINEERING

Additional \$ _____
Savings \$ _____

CONSTRUCTION

Additional \$ _____
Savings \$ _____

17. Schedule Impact (days)

Improvement _____
Delay _____

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"/> 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"/> IEPD 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"/> Environmental Report | <input type="checkbox"/> Inspection Plan | _____ |
| <input type="checkbox"/> Environmental Permit | <input type="checkbox"/> Inventory Adjustment Request | _____ |

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 |
|---|----------------|-----------------------------|-------|
| <u>OPERATIONS AND ENGINEERING</u> | | <u>ARCHITECT-ENGINEER</u> | |
| Cog./Project Engineer <u>JD Ludowise</u> | <u>8-30-90</u> | PE _____ | _____ |
| Cog./Project Engr. Mgr <u>JS Garfield</u> | <u>8/30/90</u> | QA _____ | _____ |
| QA _____ | _____ | Safety _____ | _____ |
| Safety _____ | _____ | Design _____ | _____ |
| Security _____ | _____ | Other _____ | _____ |
| Proj. Prog./Dept. Mgr. _____ | _____ | _____ | _____ |
| Def. React. Div. _____ | _____ | _____ | _____ |
| Chem. Proc. Div. _____ | _____ | _____ | _____ |
| Def. Wst. Mgmt. Div. _____ | _____ | <u>DEPARTMENT OF ENERGY</u> | |
| Adv. React. Dev. Div. _____ | _____ | _____ | _____ |
| Proj. Dept. _____ | _____ | _____ | _____ |
| Environ. Div. _____ | _____ | <u>ADDITIONAL</u> | |
| IRM Dept. _____ | _____ | _____ | _____ |
| Facility Rep. (Oos) _____ | _____ | _____ | _____ |
| Other <u>DR Speer</u> | <u>9-4-90</u> | _____ | _____ |
| _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ |

ENGINEERING CHANGE NOTICE
CONTINUATION SHEET(7) Document No.
WHC-SD-DD-PAP-002
REV 0.(18) Date
8-30-90(1)
ECN 106887**1. WAS (PAGE 10, PARAGRAPH 4):**

As the grout is removed, it will be monitored to verify LLW requirements. During the grout removal phase, an inspection and analysis of the tank integrity will also be conducted.

IS:

As the grout is removed, its activity level will be monitored using portable equipment to verify LLW requirements. Because it is expected that the grout will be classified as LLW, it will be packaged according to requirements for LLW (Stickney, 1988). The status of the grout waste will be confirmed by laboratory analysis of samples. Grout will be removed down to a level no closer than two feet to the estimated level of the top of the sludge or to the point at which the grout samples show significant levels of TRU contamination. During the grout removal phase, an inspection of the tank interior will also be conducted.

2. WAS (PAGE 10, PARAGRAPH 5):

After removal of the grout, samples of the sludge layer will be retrieved and analyzed for hazardous and radionuclide constituents. Tank integrity and sludge characteristic data will be evaluated in order to select the preferred sludge retrieval method.

IS:

After removal of the grout, as outlined above, samples of the sludge layer will be retrieved and analyzed for hazardous and radionuclide constituents. Tank integrity and sludge characteristic data will be evaluated in order to select the preferred sludge retrieval method.

3. WAS (SECTION 5.1.3, PARAGRAPH 1):

Samples of grout will be taken using a 3 ½-inch auger. Drill cuttings will be sampled in 2 to 5 foot intervals. Cuttings will be analyzed to verify LLW waste criteria.

IS:

Samples of grout will be taken using a 3 ½-inch auger. Containment will be assured during sampling by maintaining a negative pressure air enclosure. Drill cuttings will be sampled in 2 to 5 foot intervals. Cuttings will be analyzed to verify LLW criteria.

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4. **WAS (SECTION 5.2.1, PARAGRAPH 2, LAST SENTENCE):**
At that time, remediation of the site will be performed in accordance with either RCRA or CERCLA guidelines.
- IS:**
At that time, remediation of the site will be performed in accordance with either RCRA or CERCLA requirements.
5. **WAS (SECTION 5.2.1, LAST PARAGRAPH, LAST SENTENCE):**
While the primary concern in the new scope of work concerns the potentially high-level TRU waste in 241-CX-72, individually documenting each tank involved could be perceived as segmenting NEPA documentation, which is not allowed under NEPA guidelines.
- IS:**
While the primary concern in the new scope of work concerns the potentially high-level waste in 241-CX-72, individually documenting each tank involved could be perceived as segmenting NEPA documentation, which is not allowed under NEPA guidelines.
6. **WAS (SECTION 5.4.1, PAGE 16, ITEM 12 OF PHASE 1):**
12. Cease grout retrieval when mining head reaches 39 feet below grade or when radiation levels in the grout exceed acceptable levels.
- IS:**
12. Cease grout retrieval when mining head reaches a level (to be determined during definitive design) which will leave a two foot thick layer of grout over the top of the sludge layer or when radiation levels in the grout exceed acceptable levels.
7. **REVISE PAGE NUMBERS, TABLE OF CONTENTS, LIST OF FIGURES AND LIST OF TABLES AS NECESSARY.**

RECORD OF REVISION

(1) Document Number
WHC-SD-DD-PAP-002

Page A

(2) Title

Task Plan For The Sampling and Decommissioning of Tank 241-CX-72

CHANGE CONTROL RECORD

Authorized for Release

| (3) Revision | (4) Description of Change - Replace, Add, and Delete Pages | Authorized for Release | | |
|--------------|--|-------------------------------|-----------------------|---------|
| | | (5) Cog./Proj. Engr. | (6) Cog./Proj. Mgr. | Date |
| 1 <u>RS</u> | (7) REV 0, EDT-123653 4/20/90 Revise per ECN 106837 | <i>J. R. Lubie</i> 8-30-90 | <i>J. S. Gayfield</i> | 8/30/90 |

DISTRIBUTION SHEET

To: Distribution

From: J. D. Ludowise

Page 1 of 1
Date: 8-31-90
EDT No.
ECN No. 106887

Project Title/Work Order:

Task Plan for the Sampling and
Decommissioning of Tank 241-CX-72

| Name | MSIN | With Attach. | EDT/ECN& Comment | EDT/ECN Only |
|-------------------------|-------|--------------|------------------|--------------|
| L. P. Diediker | T1-30 | X | | |
| R. G. Dieffenbacher | H4-16 | X | | |
| P. C. Doto | R3-01 | X | | |
| M. J. Galgoul | R2-77 | 10 | | |
| J. S. Garfield | R1-16 | X | | |
| J. W. Handy | B2-19 | X | | |
| M. C. Hughes | R1-15 | X | | |
| G. W. Jackson | R2-29 | X | | |
| M. T. Jansky | H4-57 | X | | |
| R. J. Landon | H4-50 | X | | |
| J. B. Levine | X3-50 | X | | |
| J. D. Ludowise | R1-17 | 10 | | |
| R. L. Martin | R3-20 | X | | |
| S. F. McCoy | R1-36 | X | | |
| G. E. McPherson | R3-54 | X | | |
| M. A. Mihalic | R1-15 | X | | |
| K. S. Pedersen | S4-67 | X | | |
| R. G. Shuck | S4-67 | X | | |
| D. R. Speer | R2-77 | X | | |
| G. E. Van Sickle | R1-15 | X | | |
| J. L. Walker | R3-09 | X | | |
| G. T. Wells | R1-15 | X | | |
| DE Record File C.11.3 | R2-77 | X | | |
| CENTRAL FILES (Orig +3) | L8-04 | X | | |