

ENGINEERING CHANGE NOTICE

1. ECN 647049

Proj. ECN

| | | | | |
|---|--|---|-----------------------------|--|
| 2. ECN Category (mark one) Supplemental <input type="checkbox"/> Direct Revision <input checked="" 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. GR Porter, TWRS Projects, R3-47, 372-2648 | 4. USQ Required? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | 5. Date 05/26/98 | |
| | 6. Project Title/No./Work Order No. Replacement Cross-Site Transfer System, W-058 | 7. Bldg./Sys./Fac. No. 6241A/6241V | 8. Approval Designator Q | |
| | 9. Document Numbers Changed by this ECN (includes sheet no. and rev.) HNF-SD-W058-ABU-001, Rev. 1 | 10. Related ECN No(s). N/A | 11. Related PO No. N/A | |

| | | | |
|---|------------------------------|---|---|
| 12a. Modification Work <input type="checkbox"/> Yes (fill out Blk. 12b) <input checked="" type="checkbox"/> No (NA Blks. 12b, 12c, 12d) | 12b. Work Package No. N/A | 12c. Modification Work Complete N/A Design Authority/Cog. Engineer Signature & Date | 12d. Restored to Original Condition (Temp. or Standby ECN only) N/A Design Authority/Cog. Engineer Signature & Date |
|---|------------------------------|---|---|

13a. Description of Change
 This ECN updates the revised Acceptance for Beneficial Use (ABU) document. Closing the open items that were shown in the "comments" column of the ABU Index.

13b. Design Baseline Document? Yes No

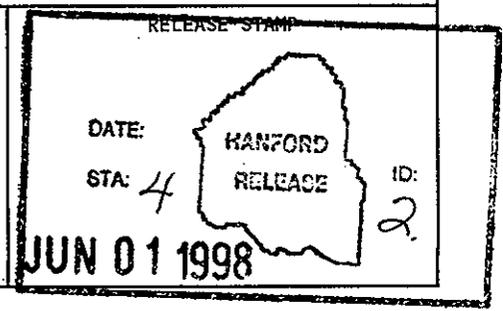
Replaces pages 3, 4, and 5 with the attached pages.

14a. Justification (mark one)

| | | | |
|--|--|--|--|
| Criteria Change <input type="checkbox"/> | Design Improvement <input checked="" type="checkbox"/> | Environmental <input type="checkbox"/> | Facility Deactivation <input type="checkbox"/> |
| As-Found <input type="checkbox"/> | Facilitate Const <input type="checkbox"/> | Const. Error/Omission <input type="checkbox"/> | Design Error/Omission <input type="checkbox"/> |

14b. Justification Details
 Completion of ABU punch list open items as indicated on the replacement pages.

15. Distribution (include name, MSIN, and no. of copies)
 See Distribution Sheet



ENGINEERING CHANGE NOTICE

16. Design Verification Required
 Yes
 No

17. Cost Impact

| | |
|--|--|
| ENGINEERING | CONSTRUCTION |
| Additional <input type="checkbox"/> \$ NONE | Additional <input type="checkbox"/> \$ NONE |
| Savings <input type="checkbox"/> | Savings <input type="checkbox"/> |

18. Schedule Impact (days)

Improvement

Delay **NONE**

19. 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 13. Enter the affected document number in Block 20.

| | | | | | |
|--------------------------------|--------------------------|----------------------------------|--------------------------|-------------------------------|--------------------------|
| 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"/> | 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"/> | Tickler File | <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"/> |

NA
PRP
5/26/98

20. 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 |
|--------------------------|--------------------------|--------------------------|

None

21. Approvals

| | | | | | |
|--------------------------|--------------------------------|------------------|--------------|-----------|-------|
| | Signature | Date | | Signature | Date |
| Design Authority | R.W. Reed <i>RW Reed</i> | <u>27 May 98</u> | Design Agent | | _____ |
| Proj. Eng. | G.R. Porter <i>GR Porter</i> | <u>5/26/98</u> | PE | | _____ |
| Proj. Mgr. | G.L. Parsons <i>GL Parsons</i> | <u>5-26-98</u> | QA | | _____ |
| QA | M.J. Bailey <i>MJ Bailey</i> | <u>5/28/98</u> | Safety | | _____ |
| Safety | N/A | | Design | | _____ |
| Environ. | N/A | | Environ. | | _____ |
| Other Transfer Cog. Eng. | M.J. Sutey <i>MJ Sutey</i> | <u>5-27-98</u> | Other | | _____ |
| Cog. Eng. Mgr. | R.E. Larsons <i>RE Larsons</i> | <u>5/31/98</u> | | | _____ |
| | | | | | _____ |
| | | | | | _____ |
| | | | | | _____ |
| | | | | | _____ |
| | | | | | _____ |
| | | | | | _____ |
| | | | | | _____ |
| | | | | | _____ |

DEPARTMENT OF ENERGY

Signature or a Control Number that tracks the Approval Signature

ADDITIONAL

Acceptance For Beneficial Use, Project W-058

J.L. Gilbert

Numatec Hanford Corporation, Richland, WA 99352
U.S. Department of Energy Contract DE-AC06-96RL13200

EDT/ECN: 647049 UC: 2030
Org Code: 8C610 Charge Code: N58PM/HANA0100
B&R Code: 39EW31301 Total Pages: 12

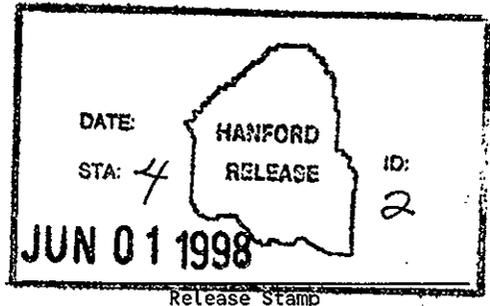
Key Words: Acceptance For Beneficial Use, Project W-058, Diversion Box and Vent Station.

Abstract: This Supporting Document contains a list of items turned over to TWRS at completion of Project W-058, plus status of open items.

TRADEMARK DISCLAIMER. Reference herein to any specific commercial product, process, or service by trade name, trademark, manufacturer, or otherwise, does not necessarily constitute or imply its endorsement, recommendation, or favoring by the United States Government or any agency thereof or its contractors or subcontractors.

Printed in the United States of America. To obtain copies of this document, contact: Document Control Services, P.O. Box 950, Mailstop H6-08, Richland WA 99352, Phone (509) 372-2420; Fax (509) 376-4989.

K. [Signature]
Release Approval
6/1/98
Date



Approved for Public Release

| ABU INDEX - CROSS-SITE TRANSFER SYSTEM (W-058) | | |
|---|--|---|
| Checklist Item | Document Number and Title | Comments |
| ABU Checklist | EDT File #623651 | COMPLETE |
| Safety Equipment List | ECN 644624, HNF-SD-WM-SEL-040, Rev. 0 | COMPLETE |
| Operational Safety Requirements- or update existing | Replaced by Technical Safety Requirements included in the Authorization Basis Amendment; document number HNF-SD-WM-TSR-006, Rev. 1C. | COMPLETE |
| Design Criteria FDC | WHC-SD-W058-FDC-001 Rev. 4: "Functional Design Criteria" for Cross-Site Transfer System. WHC-SD-W058-DRD-001 Rev. 0: "Preliminary Design Requirements Document" for W-058. | COMPLETE |
| System Design Description | "W-058 Systems Overview" (HNF-2563, Rev. 0) | COMPLETE 4/9/98 |
| Test Plan/ Specifications | HNF-SD-W058-SUP-001, Rev. 0 "Cross-site Transfer System Startup Plan." HNF-SD-W058-SUP-002, Rev. 1 "Project W058 Startup Test Plan." | COMPLETE |
| Acceptance Test Procedures and Final Test Report | HNF-SD-W058-ATR-001, Acceptance Test Procedure (ATR) CSTS Project W-058 "Leak Detection System". HNF-SD-W058-ATR-002, ATR for W-058 "Diversion Box/Vent Station Instrumentation". HNF-SD-W058-ATR-003, ATR for "SY Farm and 244-A Lift Station Instrumentation". HNF-SD-W058-ATR-004, ATR for "Booster Pumps 3125A and 3125B Instrumentation". HNF-SD-W058-ATR-005, ATR for W-058 "Water Flush System Instrumentation". HNF-SD-W058-ATR-006, ATR for "SY Farm and 244-A Lift Station Jumper Instrumentation". | COMPLETE |
| Pre-Operational Test & Final Test Report | HNF-1917, "Preoperational Test Report, Cross-site Transfer Water Flush System." HNF-1918, "Preoperational Test Report, Diversion Box Instrument Air System for POTP-002." HNF-1919, "Preoperational Test Report, Vent Station Instrument Air System for POTP-003." HNF-1920, "Preoperational Test Report, Transfer Header 3160 and Booster Pump for POTP-004" HNF-1921, "Preoperational Test Report, Transfer Header 3150 for POTP-005" HNF-1922, "Preoperational Test Report, Vent Station and Diversion Box Ventilation for POTP-006." HNF-1857, "Preoperational Test POTP-007, Cross-Site Transfer System Integrated Test" HNF-2347, "Preoperational Test POTP-008, MCS Loss of Power and Redundant Sump Leak Detector/PSH 3113 and PSH 3113A Interlock Test." | POTRs 1 through 8 COMPLETE DOP Test of Vent Filters and pump stop latch installed COMPLETE 4/1/98. Pump vibration resolved 5/14/98, see ECN 647048. |
| Operational Test Procedures and Final Test Report | N/A, No OTPs are scheduled to be performed. Operations has been involved in the POTP testing. | Not Required |
| Environmental Impact Statement | DOE/EIS-0212, "Final Environmental Impact Study/Safe Interim Storage, Nov, 1995." | COMPLETE |
| Environmental Permit | RCRA Part B permit needs updating but we may operate under interim status. Letter of confirmation on file. | COMPLETE |
| Hazardous Waste Disposal Plan/procedures | Supplied by Tank Farms. Reference TO-100-052. "Perform Waste Generation Segregation and Accumulation" and HNF-IP-0842, Vol. VI, Section 4.1. | COMPLETE |
| Solid Waste Disposal Plan/Procedures | Supplied by Tank Farms. Reference TO-100-052. "Perform Waste Generation Segregation and Accumulation" and HNF-IP-0842, Vol. VI, Section 4.1. | COMPLETE |

| ABU INDEX - CROSS-SITE TRANSFER SYSTEM (W-058) | | |
|--|---|------------------|
| Checklist Item | Document Number and Title | Comments |
| Stress/Seismic Analysis | Reference Drawing H-2-822200 sheet 2 for all calculations. Copies of CALCS are in Project files in 2750. To be issued as HNF-2419, Rev. 0 by TWRS Engineering. CGI information is contained in various calculation notes. (See HNF-2419). | COMPLETE |
| Procurement Specifications | W058-P1 Rev. 3 "Slurry Transfer Pump" (EDT #141993) W058-P2 Rev. 4 "Process Monitor and Control System" (EDT #603882) W058-P5 Rev. 2 "Process Instruments", Outstanding ECNs (EDT #612962) W058-P6 Rev. 2 "Horizontal End Suction Centrifugal Pump" (EDT #612962) W058-P8 Rev. 2 "Compressed Air System" (EDT #612962) W058-P9 Rev. 2 "Air Operated Ball Valve" (EDT #612962) W058-P10 Rev. 1 "Rupture Disk/Relief Valve" (EDT #613229) W058-P11 Rev. 1 "Electrical Circulation Heating System" (EDT #618497) W058-P12 Rev. 1 "Chemical Feed System" (EDT #618498) W058-P13 Rev. 1 "Calibration and Testing Laboratory Services" (EDT #617917) | COMPLETE |
| Construction Specification | W058-C1 Rev. 1 "Technical Requirements Buried Pipeline (Fixed Price)" (EDT #612951) W058-C2 Rev. 2 "Pipeline Tie-in's (CF)" (EDT #612960) W058-C3 Rev. 2 "Diversion Box/Vent Station (Fixed Price)" (EDT #612962) W058-C4 Rev. 1 "Sagebrush Mitigation 600 Area", (Outstanding ECN) (EDT #607801) W058-C5 Rev. 1 "C5 Flushing System Construction", (Outstanding ECN) (EDT #618499) W058-GEN1, Rev. 1 "General Requirements Buried Pipeline" (EDT #612953) W058-GEN3, Rev. 1 "Technical Requirements Buried Pipeline" (EDT #612968) | COMPLETE |
| Final Design Drawings | See drawing list on Drawings H-2-822200 sheets 1 and 2. | COMPLETE |
| As-built Drawings (Essential) | Field Verification and As-Building Complete. See project drawings. | COMPLETE |
| Interface control Drawings | Generate ECNs to affected facility essential drawings. | COMPLETE |
| Authorization Basis Amendment Package | HNF-SD-WM-BIO-001 Rev. 0, Addendum 2. Cpt'd 2/27/98. ECN 173673, 173674 | COMPLETE |
| Incorporate Outstanding Project Generated ECNs | Late ECN changes. Projects to incorporate all Project ECNs through 392. Incorporate final slurry pump testing mods. | COMPLETE 4/13/98 |
| Software Configuration Management Plan | HNF-2544. Software Configuration Plan for the Replacement Cross-Site Transfer System Control System | COMPLETE 4/3/98 |
| System Requirements Spec | See W-058-P2. The requirements are basically built within the construction and procurement specs. Reference P2 and SDD. Not required for the ABU. | Not Required |
| Software Design Description | Not required for the ABU. | Not Required |
| Logic/Program Printout | HNF-2346, Rev. 0 | COMPLETE |
| Training Plan | LMHC supplied. Reference Cross-Site Transfer Training Plan. | COMPLETE |
| Training Manuals | LMHC supplied. Reference course #3500334 Manual. | COMPLETE |
| Training to Operating Crews | Ops responsibility for training. Projects will provide revised training material. Crew training will be follow on activity. | COMPLETE |
| Training to Maintenance Crews | Ops responsibility for training. Projects will establish training material. Crew training will be follow on activity. | COMPLETE |
| Vendor Supplied Training | Leak Detection System by PermAlert -- Complete PCS training completed-- Allen/Bradley/Panametrics/Rockwell/RS view | COMPLETE |

| ABU INDEX - CROSS-SITE TRANSFER SYSTEM (W-058) | | |
|--|--|------------------|
| Checklist Item | Document Number and Title | Comments |
| CVI Operating and Maintenance Manuals | Covered under Certified Vendor Information (CVI) files. Reference CVI File #22798 Supplement 1 through 55. | COMPLETE |
| Operating Procedures | See attached list of procedures. | COMPLETE |
| Surveillance Procedures | See attached list of procedures. | COMPLETE |
| Calibration Procedures | See attached list of procedures. | COMPLETE |
| Preventative Maintenance Proc. | See attached list of procedures. | COMPLETE |
| Repair/Maintenance Procedures | Repair procedures not required at turnover. To be developed if/as needed. | Not Required |
| Functional test Procedures | See attached list of procedures. | COMPLETE |
| PM/S Data Sheets | See attached list of procedures. | COMPLETE |
| Inspection Plan | IP-W058-C1-1 Rev. 3: "Buried pipeline replacement of the cross-site transfer System." IP-W058-C2-1 Rev. 0: "Pipeline Tie-ins for replacement of the cross-site transfer system." IP-W058-C3-1 Rev. 4: "Diversion Box/Vent Station for replacement of the cross-site transfer system." IP-W058-C5-1 Rev. 0: "Flush System for replacement of the cross-site transfer system." Note: NEC inspection reports will be included with packages C2, C3 and C5 prior to issue. | COMPLETE 4/13/98 |
| QAPP | WHC-SD-W058-QAPP-001 Rev. 5: "Quality Assurance Program Plan for ECN 640729 Cross-site Transfer System" | COMPLETE |
| Vendor Information Files | Certified Vendor information soft reporting print out. File #22798. | COMPLETE |
| Master Equip. List | HNF-1956, Rev. 1A. | COMPLETE |
| Spare Parts List Critical only | Internal Memo 98-GLP-003. | COMPLETE |
| Spare Parts in Stock | Spare parts listed in Internal Memo 98-GLP-003. None required at present time. The Waste Feed Delivery Process Design Concept is currently being developed and will address reliability and spares as it evolves. | Not Required |

DISTRIBUTION SHEET

| | | |
|--|---|-------------------------------|
| To Distribution | From Replacement Cross-Site Transfer System | Page 1 of 1 Date 05/26/98 |
| Project Title/Work Order Acceptance For Beneficial Use, Project W-058 | | EDT No. N/A ECN No. 647049 |

| Name | MSIN | Text With All Attach. | Text Only | Attach./ Appendix Only | EDT/ECN Only |
|----------------------|-------|-----------------------------|-----------|------------------------------|-----------------|
| M.J. Bailey, LMHC | T4-07 | X | | | |
| C.B. Bryan, LMHC | T4-07 | X | | | |
| L.R. Hall, FDNW | S2-47 | X | | | |
| J.L. Henderson, FDNW | G3-14 | X | | | |
| R.E. Larson, LMHC | T4-07 | X | | | |
| D.R. Nunamaker, LMHC | T4-07 | X | | | |
| E.A. Pacquet, NHC | R3-47 | X | | | |
| G.L. Parsons, NHC | R3-47 | X | | | |
| G.R. Porter, NHC | R3-47 | X | | | |
| R.W. Reed, LMHC | T4-07 | X | | | |
| C.R. Reichmuth, LMHC | T4-07 | X | | | |
| W.M. Sutey, LMHC | T4-08 | X | | | |
| Project Files | R1-29 | X | | | |