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ENGINEERING CHANGE NOTICE

Page 1 of 2

1. ECN 654217

Proj.
ECN

2. ECN Category (mark one) Supplemental ☐ Direct Revision ☒ Change ECN ☐ Temporary ☐ Standby ☐ Supersedeure ☐ Cancel/Void ☐	3. Originator's Name, Organization, MSIN, and Telephone No. Jack S. Hammers, TRS, R3-25, 372-2657		4. USQ Required? ☐ Yes ☒ No	5. Date 6/7/99
	6. Project Title/No./Work Order No. W-314, Tank Farm Restoration and Safe Operations/ W-314		7. Bldg./Sys./Fac. No. 241-AN-A & B	8. Approval Designator ESQ DER 7/16/99
	9. Document Numbers Changed by this ECN (includes sheet no. and rev.) HNF-SD-W314-ABU-003, Rev 1 HNF-SD-W314-ABU-002, Rev 1		10. Related ECN No(s). NONE	11. Related PO No. NA
12a. Modification Work ☐ Yes (fill out Blk. 12b) ☒ No (NA Blks. 12b, 12c, 12d)	12b. Work Package No. NA	12c. Modification Work Complete NA Design Authority/Cog. Engineer Signature & Date	12d. Restored to Original Condition (Temp. or Standby ECN only) NA Design Authority/Cog. Engineer Signature & Date	
13a. Description of Change 13b. Design Baseline Document? ☐ Yes ☒ No 1). Updated ECN's 2). Updated USQ's 3). Revised Documentation Required for ABU 4). Udated Calculations 5). Udated Drawings				
14a. Justification (mark one) Criteria Change ☐ Design Improvement ☒ Environmental ☐ Facility Deactivation ☐ As-Found ☒ Facilitate Const ☐ Const. Error/Omission ☐ Design Error/Omission ☐				
14b. Justification Details Updated ABU's to reflect current Project status. <i>"This modification will not change collective dose since it has no impact on radiological sources, Contamination control, or shielding."</i> USQ not required per HNF-IP-0842, VOL. II, section 5.4, rev 11 b. DER 7/16/99				
15. Distribution (include name, MSIN, and no. of copies) See attached Distribution Sheet			RELEASE STAMP <div style="border: 1px solid black; padding: 10px; text-align: center;"> DATE: JUL 21 1999 STA: A HANFORD RELEASE ID: 2 </div>	

654217

A-7900-013-3 (05/96) GEF096

Project W-314 241-AN-A Valve Pit Upgrade Acceptance For Beneficial Use

Jack S. Hammers

Numatec Hanford Company, Richland, WA 99352

U.S. Department of Energy Contract DE-AC06-96RL13200

EDT/ECN: 654218 ^{7/24/99}

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Release Approval Date

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<p align="center">RECORD OF REVISION</p>	<p>(1) Document Number HNF-SD-W314-ABU- 002, Rev 2</p>	<p align="center">Page 1</p>
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(2) Title
Project W-314 241-AN-A Valve Pit Upgrade, Acceptance for Beneficial Use

(2) Title
Project W-314 241-AN-A Valve Pit Upgrade, Acceptance for Beneficial Use

CHANGE CONTROL RECORD

[illegible]

**PROJECT W-314
241-AN-A VALVE PIT UPGRADE
ACCEPTANCE FOR BENEFICIAL USE**

This listing identifies the responsibilities and requirements, applicable to the 241-AN-A Valve Pit Upgrades portion of Project W-314, for Acceptance for Beneficial Use in accordance with HNF-IP-0842, Vol IV, Sec 3.12.

At project turnover, the end user accepts the affected Structures, Systems, and Components (SSCs) for beneficial use. This checklist is used to help the end user ensure that all documentation, training, and testing requirements are met prior to turnover.

This checklist specifically identifies those items related to the upgrading of the 241-AN-A valve pit. The upgrades include: the installation of jumper/valve manifolds with position sensors, replacement pit leak detection systems, construction of replacement cover blocks, and electrical upgrades to support the instrumentation upgrades.

DOCUMENTATION REQUIRED for ACCEPTANCE FOR BENEFICIAL USE

DESCRIPTION	RESPONSIBILITY	DESCRIPTION	RESPONSIBILITY
ENGINEERING		ENGINEERING (cont'd)	
[] Engineering Task Plan - N/A		[X] Construction Specification	P.J. Bedell
[X] USQ Screening	C.W. Carlstrom	[] Essential Material Specification - N/A	
[] Activity Schedule - N/A		[] Installation Work Plan - N/A	
[] Final Safety Analysis Report - AB Amendment - N/A		[X] As-built, IEFD (P&ID), System Drawings	P.J. Bedell
[] Interim Safety Basis - AB (BIO) Amendment - N/A		[] Installation Drawings - N/A	
[] Safety Assessment - N/A		[X] CWP Construction Inspection Records	W.R. Swift
[X] Safety Equipment List	S.H. Rifaeey	[X] Drawing Tree/Index	P.J. Bedell
[] Operational Safety Document(s) - N/A		[X] As-Built Project Generated ECNs	P.J. Bedell
[X] Design Criteria (Project Development Specification (PDS)	M.A. Lane	[X] Void/Superseded, As-built, Essential, Facility Support Drawings	C.E. Shipler
[X] Requirements Verification Report for PDS	P.J. Bedell	[X] Master Equipment List Update	C.E. Shipler
[] System Design Description-N/A		[] Design Specifications/Report - N/A	
[X] Project Design Concept (PDC)	P.J. Bedell	[] Equipment Specifications - N/A	
[X] Test and Evaluation Plan (TEP& STEP)	J.S. Hammers	ADP (all computer activities are on MPS ABU)	
[X] Acceptance Test Procedures	J.S. Hammers	[] Software Configuration Management Plan - N/A	
[X] Acceptance Test Report	J.S. Hammers	[] Systems Requirements Spec - N/A	
[X] Operational Test Procedures	J.S. Hammers	[] Software Design Description - N/A	
[X] Operational Test Report	J.E. Andrews J.S. Hammers J.E. Andrews	[] Software Validation/Verification - N/A	
[] Environmental Impact Statement (TWRS) N/A		TRAINING	
[X] NEPA Documentation	A.J. Eirich	[X] Training Plan	J.M. Morris
[] Environmental Permit - N/A		[] Training Manuals/Certification Package - N/A	
[] Hazardous Waste Disposal Plan/Procedures - N/A		[X] Training to Operating Crews	J.M. Morris
[] Solid Waste Disposal Plan/Procedure - N/A		[X] Training to Maintenance Crews	J.M. Morris
[X] Notice of Construction/Excavation	A.J. Eirich	[] Training Mock-Up -N/A	
[] Permit/Cultural Resource ES Review - N/A			
[X] Calculations	P.J. Bedell		
[X] Commercial Grade Item Dedication Documentation	P.J. Bedell		
[] Stress/Seismic Analysis - N/A			
[] Stress/Design Report - N/A			
[X] Procurement Specifications	P.J. Bedell		

DOCUMENTATION REQUIRED FOR ACCEPTANCE FOR BENEFICIAL USE (cont'd)

DESCRIPTION	RESPONSIBILITY	DESCRIPTION	RESPONSIBILITY
OPERATIONS/MAINTENANCE		PROCUREMENT	
[] Operating Manuals – N/A		[X] Vendor Information Files (CVI)	P.J. Bedell
[X] Operating Procedures	J.W. Comer	[] Comprehensive Equipment List - N/A	
[] Surveillance Procedures – N/A		[X] Spare Parts List	D.B. Smet / J.S. Hammers
[] Maintenance Manuals – N/A		[] Identify/ Submit Spare Parts for Excess - N/A	
[] Calibration Procedures – N/A		[X] Spare Parts in Stock or on Order	D.B.Smet
[] Preventative Maintenance Procedures – N/A		OTHER	
[X] Repair/Maintenance Procedures	J.W. Comer	[X] Update TWRS SE Data Base	D.L. McGrew
[X] Functional Check Procedures	J.W. Comer	[X] Project Interface Control Document	P.J. Bedell
[X] PM/S Data sheets	S.H. Rifaey	[X] S.R.I.D.S. Assessment	J.S. Hammers
[] Emergency Response – N/A		[X] Routing Board 272-AW	J.E. Andrews
[X] Final Joint Safety Walkdown by Operations, Engineering, Maintenance, and Health Physics, as appropriate	T.W. Bohan	[X] Miscellaneous Memorandums of Understanding/Agreement (MOUs/MOAs)	J.S. Hammers
QUALITY ASSURANCE		[X] Field Verification Plan	T.W. Bohan
[X] Inspection Plans	H.M. Chafin	[X] ACW	M.A. Lane
[X] Surveillance	H.M. Chafin/ J.W. Middleton		
[X] QAPP	H.M. Chafin		
[X] Non Conformance Reports	J.W. Middleton		

ABU INDEX – Roadmap of Supporting Information

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USQ Screening	<u>TF-97-0558, Rev 1</u> , New Cover Block Design for the 241-AN-A and 241-AN-B Valve Pits Per W-314 <u>TF-97-0560, Rev 7</u> , Nozzle Additions at 241- AN-A and 241-AN-B Valve Pits <u>TF-97-0800, Rev 8</u> , Project W-314 Valve Pit Manifold Design for 241-AN-A and 241-AN-B Valve Pit <u>TF-97-0835, Rev 3</u> , Special Protective Coating for Valve Pits Upgrade by Project W-314 <u>TF-97-0866, Rev 0</u> , W314 Leak Detection System Design for the 241-AN-A and 241-AN- B Valve Pits <u>TF-98-0020, Rev 0</u> , ECN 646103 New Gasket Material for Purex Connector per W-314 <u>TF-98-0183, Rev 0</u> , Electrical Power Supply for Leak Detection Relay Cabinets AN <u>TF-98-0214, Rev 0</u> , W314 Change Facility Installation and Gate Modification <u>TF-98-0215, Rev 3</u> , W314 Procurement Specification for Impact Wrench AN Valve Pit Upgrade <u>TF-98-0217, Rev 10</u> , W314 Electrical Design for Valve Pit Upgrade 241-AN-A,B <u>TF-98-0219, Rev 6</u> , Modifications of W-314 AN Valve Pit Jumper Drawings Due to Vendor Information from Valve Procurement <u>TF-98-0229, Rev 21</u> , ECN to Structural Drawings for 241-AN-A & 241-AN-B Valve Pit <u>TF-98-0237, Rev 1</u> , New Transfer Piping per Project W-314 <u>TF-98-0238, Rev 0</u> , ECN to Instrumentation Drawings for 241-AN-A and 241-AN-B Valve	D.F. Carlstrom, SAR Eng. Services		

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	Pit Upgrades <u>TF-98-0244, Rev 1</u> , AN Valve Pit Preparation and Removal of Cover Blocks, Project W314 <u>TF-98-0259, Rev 0</u> , W314 Design Upgrades for the AN Pit Upgrade Package <u>TF-98-0334, Rev 0</u> , Perform Excavation Activities in Support of Project W314 <u>TF-98-0459, Rev 0</u> , Design Upgrades for the AN Pit Upgrade Package <u>TF-98-0483, Rev 8</u> , Project W-314 Valve Actuator Assembly Design Modification <u>TF-98-0524, Rev 0</u> , Probe Dimension and Generic Leak Detection Assembly Part No. Changes <u>TF-98-0545, Rev 2</u> , AN Valve Pit Construction Activities Per Project W-314 <u>TF-98-0560, Rev 1</u> , W-314 Nozzle Additions at 241-AN-A and 241-AN-B Valve Pits <u>TF-98-0598, Rev 2</u> , ECN to Revise Instrumentation & Electrical Drawings for 241- AN-A and 241-AN-B Valve Pit Upgrades <u>TF-98-0665, Rev 0</u> , Project W-314 AN Valve Pit Jumper Drawing Modifications to Facilitate Fabrication <u>TF-98-0700, Rev 0</u> , Disconnection of Existing Leak Detection System at 241-AN-A and 241- AN-B Valve Pits <u>TF-98-0718, Rev 0</u> , AN Valve Pit Upgrade Project Bypass Pipeline Modification <u>TF-98-0993, Rev 0</u> , Leak Detection Relay Test Resistor and Safety Class Symbol Changes <u>TF-98-1031, Rev 0</u> , Project W-314, New Leak Detection Contacts			

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	<u>TF-98-1053, Rev 1</u> , Valves Hydrotest and Seat Leakage Tests Procedures Modifications <u>TF-98-1058, Rev 0</u> , Leak Detection Relay Test Resistor and Safety Class Symbol Changes <u>TF-98-1144, Rev 0</u> , ECN W314-4C-041 Leak Detection Power Supply Part Number Change <u>TF-98-1210, Rev 0</u> , Modifications to Cover Block Dimensions, Cathodic Protection and Valve Position Sensor Wiring <u>TF-98-1212, Rev 0</u> , Rebar Replacement and Tolerance Changes to Construction Specification W-314-C1 <u>TF-98-1219, Rev 1</u> , Valve Position Sensor Condulet Box Mounting Bracket <u>TF-98-1279, Rev 0</u> , Leak Detection Relay Cabinet NEMA 4 Alarms <u>TF-99-0121, Rev 0</u> , ECN 314-4C-062 AN Valve Pit Upgrade Instrument Terminal Box Footing Concrete Change <u>TF-99-0128, Rev 0</u> , ECN 314-4C-066 AN Valve Pit Upgrade Leak Detection Panel Breather/Drain Fitting Change <u>TF-99-0167, Rev 0</u> , ECN 314-4C-076 AN Valve Pit Upgrade Leak Detection Panel Tag Number and Wiring Change <u>TF-99-0240, Rev 1</u> , Miscellaneous Changes Associated with Nozzle Installation at 241-AN-A and 241-AN-B Valve Pits <u>TF-99-0248, Rev 0</u> , ECN 314-4C-085 AN Valve Pit Upgrade Leak Detection Panel Selector Switch Contact Block Change <u>TF-99-0422, Rev 0</u> , ECN 314-4C-105 AN Valve Pit Upgrade Leak Detection Element			

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	Conduit Seal Addition and Associated Modifications TF-99-0427, Rev 0, ECN 314-4C-104 Bypass Leak Detection Relays During W-314 Construction Activities at 241-A, 241-B and 241- AN-B Valve Pits TF-99-0480, Rev 0, ECN 314-4C-115 AN Valve Pit Upgrade Instrument Cable Shield Wire Termination Change TF-99-489, Rev 0, ECN W314-4C-117 AN Valve Pit Upgrade Encasement Leak Detector Piping Connection Change HNF-SD-WM-SEL-040, Rev 1	S. H. Rifaey, Equipment Eng.		
Safety Equipment List				
Design Criteria (Project Development Specification (PDS))	HNF-SD-W314-PDS-001, Rev 1, Project Development Specification – Transfer Piping HNF-SD-W314-PDS-002, Rev 1, Project Development Specifications for Valve Pit Manifold HNF-SD-W314-PDS-003, Rev 1, Project Development Specifications for Pit Leak Detection HNF-SD-W314-PDS-005, Rev 1, Project Development Specification for Special Protective Coating	M.A. Lane, Project Management		
Requirements Verification Report for PDS (Design/Field)	HNF-1534, Rev 0, Requirements Verification Report for AN Valve Pit Upgrades for Project W-314 Tank Farm Restoration and Safe Operations	P. J. Bedell, Project Design		
Project Design Concept	HNF-SD-TI-010, Rev 1, Requirements Analysis Study for Valve Pit Manifold Project Development Specification	P. J. Bedell, Project Design		

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	HNF-SD-TI-011, Rev 1, Requirements Analysis Study for Pit Leak Detection Project Development Specification HNF-SD-TI-012, Rev 2, Requirements Analysis Study for Master Pump Shutdown System Development Specification HNF-SD-TI-013, Rev 1, Requirements Analysis Study for Special Protective Coating Project Development Specification			
Test and Evaluation Plans (TEP & STEP)	HNF-SD-W314-TEP-001, Rev 2, Test & Evaluation Plan HNF-1733, Rev 3, Specific Test and Evaluation Plan for 241-AN-A Valve Pit	J.S. Hammers, Project Startup		
Acceptance Test Procedures	HNF-4642, Rev 0, 241-AN-A Valve Pit Manifold Valves & Position Indication ATP HNF-4648, Rev 0, 241-AN-A Pit Leak Detection ANA-WT-LDSTA-331 ATP HNF-4650, Rev 0, SN-268 Encasement Leak Detection ANA-WT-LDSTA-335 ATP TWR-4064, Rev 1, Mock-up Test Procedure	J.S. Hammers, Project Startup		
Acceptance Test Reports	HNF-4649, 241-AN-A Valve Pit Leak Detectors Acceptance Report HNF-4643, 241-AN-A Valve Pit Manifold Valves Acceptance Report HNF-4651, Encasement Leak Detector Acceptance Report TWR-4663, Rev 0, Mock-up Acceptance Test Report	J.S. Hammers, Project Startup		
Operational Test Procedure	OTP-314-001	J.S. Hammers, Project Startup, J.E. Andrews, Operations		
Operational Test Report	OTR-314-001	J.S. Hammers, Startup J.E. Andrews, Operations		

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NEPA Documentation	DOE/EIS-0189-SA1	A.J. Eirich, Project Management		
Notice of Construction/Excavation	Radioactive Air Emissions Notice of Construction Tank Farm Restoration and Safe Operations Project W-314 (12/97)	A.J. Eirich, Project Management		
Calculations	W314-C-001, AN Valve Pit Structural Evaluation W314-C-002, AN Valve Pit Wall Evaluation W314-C-003, Cover Block Lifting Balls W314-C-006, Evaluation - Safety Class Items W314-C-007, Deviations 6430.1A & ACI Codes W314-C-008, AN - Misc. Equipment Supports W314-C-009, Shielding Blocks W314-C-010, Commercial Grade Evaluation - RE Bar W314-C-011, Commercial Grade Evaluation - Concrete W314-C-012, Commercial Grade Evaluation - Plate Steel W314-C-013, Commercial Grade Evaluation - Expansion Anchors W314-C-031, AN Misc. Equipment Wind Missile Shield W314-E-001, AN Farm VPU/EDS-DP-105 W314-E-009, CGI Design Analysis - Control/Power Wire W314-E-010, CGI Design Analysis - Wire Connectors W314-E-012, CGI Design Analysis for Rigid Steel Conduit W314-E-013, CGI Design Analysis for	B.J. Bedell, Project Design		

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	Conduit Fittings/ Outlet Boxes W314-E-014, CGI Design Analysis for Molded Case Circuit Breakers W314-E-021, Cathodic Protection Analysis 241-AN-A & 241-AN-B Pit Mods W314-I-001, Amount of Liquid/Waste Present in the bottom of AN Valve Pit at time of detection W314-I-002, Human Factors Analysis Pit Leak Detection Warning Lights W314-I-003, Pit Leak Detection System Reliability/Probability of Failures W314-I-004, Solar Effects on Relay Cabinet Enclosure W314-I-005, Solar Effects on Valve Position Sensor Enclosure W314-I-006, Safety Class Instrumentation Analysis W314-I-007, Commercial Grade MTL 2313 Trip Amplifier Dedicated to Safety Class W314-I-008, Commercial Grade B/W Leak Detection Relay Dedicated to Safety Class W314-I-009, Commercial Grade Stainless Steel Probes Dedicated to Safety W314-I-010, Commercial Grade Warning Light Transformer Dedicated to Safety Class W314-I-011, Commercial Grade Edwards Strobe Local Warning Light Dedicated to Safety Class W314-I-012, Commercial Grade Potter & Brumfield Latch Relay Dedicated to Safety Class W314-I-013, Commercial Grade Potter &			

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	Brumfield General Purpose Relay Dedicated to Safety Class W314-I-014A, Leak Detection Relay Cabinet Heater Sizing W314-I-015, Commercial Grade Power Supply Dedicated to Safety Class W314-I-036, Commercial Grade Relay Cabinet Enclosure Dedicated to Safety Class W314-I-037, Commercial Grade Terminal Block Dedicated to Safety Class W314-I-038, Commercial Grade II Pin Relay Socket Dedicated to Safety Class W314-I-039, Commercial Grade Socket Dedicated to Safety Class W314-I-049, Commercial Grade Disconnect Switch Dedicated to Safety Class W314-I-050, Oper/Train & Tank Farm Instr Bldg PLC Cabinet Heat Dissipation/Fan Sizing (Typical) W314-I-051, Oper/Train & Tank Farm Instr Bldg PLC Cabinet 24VDC Power Supply Sizing (Typical) W314-I-052, UPS Runtime W314-P-001, Jumper Calculation Critical Dimensions (AN-A) W314-P-003, Jumper Calculation Balance Sheets (AN-A) W314-P-005, Shielding Analysis W314-P-006, Inside Pit and Buried Pipeline Heat Loss Calc. W314-P-007, Jumper Stress Analysis (AN-A-B) W314-P-008, 24 Hours Detectable Leakage Rate			

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	W314-P-017, 6 -in. Encasement Closure Design in accordance with ASME B31.3 W314-P-018, 4-in. Encasement Closure Design per ASME B31.3 W314-P-019, Failure Modes and Effects Analysis for Project W-314 W314-P-020, Engineering Evaluation of Commercial Grade Items W314-P-021, Stresses Induced on Piping Due to Loads on Integral Attachments Class W314-P-022, Shielding Block of Handle Extension of Valve W314-P-032, Funnel Collar Pin Analysis W314-P-038, Valve Nozzle Loads Analysis for Valve Manifolds in Valve Pits 241-AN-A&B W314-P-051, Pressure Design of 14" ENC. For WT-V-110 W314-P-053, Pressure Design for Transfer Piping and Encasements W314-P-054, CGI Evaluation Encasement Valves W314-P-055, Valve Pit Ambient Temperature			
Commercial Grade Item Dedication Documentation	W-314-C1-2, Reinforcing Steel CGI Data W-314-C1-6, Chemical Resistant Decontamatable Coatings, List of Materials W-314-C1-7, Chemical Resistant Decontamatable Coatings, Installers Certificate W-314-C1-20, Chemical Process Piping Systems, Certified Material Test Reports W-314-C1-20.1, Chemical Process Piping Systems Weld Filler, Certified Material Test Reports	P.J. Bedell, Project Design		

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	W-314-C1-20.2, Chemical Process Piping Systems Weld Filler, Certified Material Test Reports W-314-C1-20.3, Chemical Process Piping Systems Weld Filler, Certified Material Test Reports W-314-C1-21, Pipe Code M-26a, CGI Data W-314-C1-22, Fittings Pipe Code M-26a CGI Data PO 501-5-GPBF-02 W-314-C1-22.1, CGI Data for Buttwelded Fittings M26a, PO 501-5-GPJN-01 W-314-C1-22.2, CGI Data for Buttwelded Fittings M26a, PO 501-5-GPJN-02 W-314-C1-30, Intrinsically Safe Control Relay W-314-C1-31, Trip Amplifier W-314-C1-32, Strobe Light W-314-C1-33, General Purpose Relay W-314-C1-34, Latching Relay W-314-C1-35, Transformer W-314-C1-36, Power Supply W-314-C1-37, Heater W-314-C1-38, Terminal Block W-314-C1-39, Disconnect Switch W-314-C1-40, Intrinsically Safe Control Relay W-314-C1-41, Trip Amplifier W-314-C1-42, Dual Coil Latch Relay W-314-C1-43, General Purpose Relay W-314-C1-44, Intrinsically Safe Switch Operated Relay W-314-C1-45, Transformer W-314-C1-46, Power Supply W-314-C1-47, Heater W-314-C1-48, Terminal Block			

ABU INDEX – Roadmap of Supporting Information

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W-314-C1-49, Disconnect Switch	W-314-C1-100, Reinforcing Steel Drawing			
W-314-C1-101A, Valve Position Indicator	W-314-C1-102, Valve Actuator			
W-314-C1-103, National Laboratory Certification Documentation for UL508 Leak Detection Panels & OSHA Certification of ETL				

Procurement Specifications	W-314-P1, Rev 0, Ball Valves AN Valve Pit Upgrades W-314-P2, Rev 0, Impact Wrench AN Valve Pit Upgrades W-314-C1, Rev 1, Tank Farm Restoration and Safe Operations AN Valve Pit Upgrades	P. J. Bedell, Project Design		
Construction Specification	P. J. Bedell, Project Design			
Design, As-Built/IEFD (P&ID), System Drawings	See Memorandum of Understanding – Drawing ECNs and As-builts for Project W-314 Phase I Design Packages, Dated 5/27/99.	P. J. Bedell, Project Design		
CWP Construction Inspection Records	W-314-AN-01, 241-AN-A Valve Pit Modification W-314-AN-03, 241-AN-A&B Valve Pit Cover Block Fabrication W-314-AN-04, 241-AN-A&B Valve Jumper Fabrication W-314-AN-05, Installation of Electrical Components for the 241-AN-A & AN-B Valve Pit Upgrades	W. R. Swift, Construction		
Drawing Tree Index	See Memorandum of Understanding – Drawing ECNs and As-builts for Project W-314 Phase I Design Packages, Dated 5/27/99.	P. J. Bedell, Project Design		
Void/Superseded, As-built, Essential, Support	See Memorandum of Understanding – Drawing ECNs and As-builts for Project W-314 Phase I Design Packages, Dated 5/27/99.	C. E. Shipley, Operations		

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Drawings				
Master Equipment List		C.E. Shipley, Operations		
Update				
Training Plan	79600-98-004	J.M. Morris, Training		
Training to Operating Crews		J.M. Morris, Training		
Training to Maintenance Crews		J.M. Morris, Training		
Inspection Plans		H.M. Chafin		
Surveillance's	QS-98-004, "Design Verification for AN Design Package QS-98-018, "Control of Measuring and Test Equipment" QS-98-029, "Evaluation of Koon-Hall-Adrian Testing" QS-99-017, "Project W-314 Fabrication/Installation of Safety Class Reinforcement Steel for Cover Blocks" QS-99-025, "Construction on Work Package Completion"	J.W. Middleton H.M. Chafin QA		
QAPP	HNF-SD-W314-QAPP-001, Rev 2	H.M. Chafin, QA		
Non Conformance Reports		J.W. Middleton, QA		
Operating Procedures	TO-020-610, Manual Operation of Gear Actuated Ball Valves TO-020-003, Removal and Installation of Gear Actuated Valve Pit Operator Assemblies	J.W. Comer, Procedures		

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Repair/Maintenance Procedures	3-LD-042, Data Sheets Testing of Liquid Detector (Liquid Level Element and Leak Detector Element) 3-LD-055 T-Shoot & Repair of Liquid Detector (LDE & LLE) TF-FT-229-006, Perform Functional Test for AN Farm Leak Detectors	J.W. Comer, Procedures		
Functional Check Procedures		J.W. Comer, Procedures		
PM/S Data Sheets		S.H. Rifaey, Equipment Eng.		
Final Joint Safety Walkdown by Operations, Engineering, Maintenance, and Health Physics, as appropriate		T.W. Bohan, Project Operations		
Vendor Information Files (CVI)		P.J. Bedell, Project Design		
Spare Parts List		D.B. Smet, Equip Eng J.S. Hammers, Startup		
Spare Parts in Stock /Order		D.B. Smet, Equip Eng		

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Update TWRS SE Data		D.L. McGrew, Sys Eng		
Base				
Project Interface Control Document		P.J. Bedell, Project Design		
S.R.I.D.S. Assessment	HNF-3699, Rev 0	J.S. Hammers, Startup		
Routing Board – 272AW	2E-98-00760/W Generic Work Item, 241-AN-A&B Jumper Installation	J.E. Andrews, Operations		
Miscellaneous Memorandums of Understanding/Agreement (MOUs/MOAs)	1) Training for Structures, Systems, and Components Installed and/or Constructed during Phase One of Project W-314, dated 12/12/97 2) Leak Testing of Jumpers Installed by Project W-314 Tank Farm Restoration and Safe Operations, dated 12/18/97 3) Updating of Maintenance and Operating Procedures for Project W-314 Tank Farm Restoration and Safe Operations, dated 8/12/98 4) MOA Post Test Control of Components, dated 6/24/99	J.S. Hammers, Startup		
Field Verification Plan	TWR-4385	T.W. Bohan, Project Operations		
ACW		M.A. Lane, Project Management		

ABU INDEX – Acceptance Documentation

FINAL ACCEPTANCE SIGNATURES

ABU-002 for AN-A Valve Pit Upgrades	All deliverables under "Supporting Document Number and Title above are complete, signed, and acceptable or are included on an approved punchlist. Tank Farm Operations accepts full responsibility for systems, structures, and components covered by this ABU.	<div> <i>Facility Manager</i> <div>Date</div> </div> <div> <i>W-314 Operations Manager</i> <div>Date</div> </div> <div> <i>Design Authority</i> <div>Date</div> </div> <div> <i>TWRS Chief Engineer</i> <div>Date</div> </div>
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ABU INDEX - Post Acceptance Punch List

This section of the index identifies items still requiring completion or closure after acceptance of the segment/system per the ABU.
Note: Items affecting Readiness may not be on the punch list without documented justification, an approved plan to correct the deficiency, and written concurrence from the Director of Tank Farms (or his delegee).

[illegible]

DISTRIBUTION SHEET

To DISTRIBUTION	From Tank Farm Restoration and Safe Operation	Page 1 of 1 Date 6/7/99
Project Title/Work Order Project W-314 /HNF-SD-W314-ABU-002 Rev. 2, HNF-SD-W314-ABU-003, Rev. 2		EDT No. N/A ECN No. 654217

Name	MSIN	Text With All Attach.	Text Only	Attach./ Appendix Only	EDT/ECN Only
T. W. Bohan	R3-47	1			
D. E. Bowers	S5-13	1			
W. E. Bryan	S5-05	1			
H. M. Chafin	R3-25	1			
J. W. Comer	R2-82	1			
R. A. Dodd	R3-72	1			
J. D. Galbraith	H5-49	1			
J. S. Gilbert	R3-25	1			
J. S. Hammers	R3-25	1			
J. R. LaPointe	R2-88	1			
J. W. Lentsch	R3-25	1			
D. L. McGrew	R3-25	1			
J. M. Morris	R2-84	1			
S. H. Rifaey	R1-56	1			
C. E. Shipler	S2-25	1			
B. L. Syverson	G3-12	3			
M. W. Tiffany	R1-49	1			
Project Files	R1-29	1			
Construction Doc Control	S2-53	1			

For changes in distribution, please contact Tammy Rettkowski at 372-2559 or Linda Syverson on 376-0486