

S

ENGINEERING CHANGE NOTICE

Page 1 of 21. ECN **661734**Proj.
ECN

2. ECN Category (mark one)		3. Originator's Name, Organization, MSIN, and Telephone No.		4. USQ Required?	5. Date
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"/>		B. R. Johns, ISE, S7-24, 373-3429		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	09/13/00
		6. Project Title/No./Work Order No.	7. Bldg./Sys./Fac. No.	8. Approval Designator	
		Interim Stabilization, Essential Drawings, 103361	241-G/200-GEN	N/A	
		9. Document Numbers Changed by this ECN (includes sheet no. and rev.)	10. Related ECN No(s).	11. Related PO No.	
		HNF-4184, REV. 8	N/A	N/A	
12a. Modification Work		12b. Work Package No.	12c. Modification Work Completed	12d. Restored to Original Condition (Temp. or Standby ECNs only)	
<input type="checkbox"/> Yes (fill out Blk. 12b) <input checked="" type="checkbox"/> No (NA Blks. 12b, 12c, 12d)		N/A	N/A	N/A	
		Design Authority/Cog. Engineer Signature & Date		Design Authority/Cog. Engineer Signature & Date	
13a. Description of Change		13b. Design Baseline Document? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
This ECN is a direct revision of document HNF-4184, Interim Stabilization Equipment Essential and Support Drawing List. Four Essential drawings and seven Support drawings are added to the lists for new Pumping Instrumentation and Control skid "X".					
14a. Justification (mark one)		14b. Justification Details			
Criteria Change <input checked="" type="checkbox"/> Design Improvement <input 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"/>		This direct revision of HNF-4184 updates the Essential and Support drawings lists for new skid "X". Design verification by Informal review per HNF-IP-0842, volume IV, section 4.24. USQ tracking #TF-00-0619, revision 0. This direct revision will not change collective dose since it has no impact on radiological sources, contamination control or shielding. A NEPA review is not required since this is an administrative change per HNF-PRO-452, section 2.1, paragraph 10.			
15. Distribution (include name, MSIN, and no. of copies)		RELEASE STAMP			
O. M. Jaka S7-24 B. R. Johns S7-24 M. R. Koch S7-24 J. E. Lamphere S7-24 W. F. Zuroff S7-24		OCT 16 2000 DATE STA: 4 HANFORD RELEASE ID: 58			

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

661734

16. Design Verification Required

☒ Yes

☐ No

17. Cost Impact

ENGINEERING

Additional ☐ \$ N/A

Savings ☐ \$ N/A

CONSTRUCTION

Additional ☐ \$ N/A

Savings ☐ \$ N/A

18. Schedule Impact (days)

Improvement ☐ N/A

Delay ☐ N/A

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"/>	<u>NONE</u>	<input checked="" type="checkbox"/>
Environmental Permit	<input type="checkbox"/>	Inventory Adjustment Request	<input type="checkbox"/>		<input type="checkbox"/>

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

N/A

N/A

N/A

21. Approvals

Signature _____ Date _____
 Design Authority WF ZUROFF 9/27/00
 Cog. Eng. BR JOHNS 9/20/00
 Cog. Mgr. MR KOCH 9-26-2K
 QA N/A
 Safety N/A
 Environ. LL PENN 9/28/00
 Other Informal Review: E. DeFud 9/27/00

Signature _____ Date _____
 Design Agent _____
 PE _____
 QA _____
 Safety _____
 Design _____
 Environ. _____
 Other _____

DEPARTMENT OF ENERGY

Signature or a Control Number that tracks the Approval Signature

ADDITIONAL

INTERIM STABILIZATION EQUIPMENT ESSENTIAL AND SUPPORT DRAWING PLAN

M. R. KOCH

CH2MHILL HANFORD GROUP, INC.

Richland, WA 99352

U.S. Department of Energy Contract DE-AC06-99RL14047

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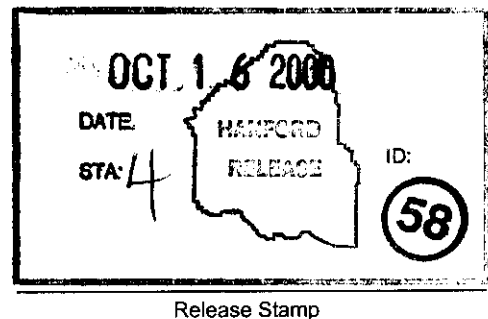
Abstract:

This supporting document provides a list of the Essential and Support drawings for the Interim Stabilization project equipment.

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 10/11/00
Release Approval Date



Approved For Public Release

[illegible]

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1. PURPOSE

The purpose of this document is to list the Interim Stabilization equipment drawings that are classified as Essential or Support drawings.

2. DEFINITION

Essential Drawings: Those drawings identified by the facility staff as necessary to directly support the safe operation of the facility or equipment. [CHG 2000a]

Support Drawings: Those drawings identified by the facility staff that further describe the design details of structures, systems or components shown on essential drawings. [CHG 2000a]

3. DRAWINGS

The Interim Stabilization drawings identified in this plan are deemed either Essential or Support drawings as defined in HNF-IP-0842, volume IV, section 4.25, paragraph 5.1.1.a, Engineering Drawings [CHG 2000a]. These drawings will be prepared, revised and maintained per RPP-PRO-1819, Engineering Requirements [CHG 1999a]. All other Interim Stabilization drawings not listed in this plan will be considered General drawings. Section 5 lists the Essential drawings and Section 6 lists the Support drawings.

4. REVISION

Drawing lists in Section 5 and Section 6 require updating when new drawings are developed or existing drawings are evaluated and determined to be Essential or Support. Drawings on the lists are to be removed when equipment functions change or equipment is removed from service. Drawings listed as Essential in this plan, but are not stamped "ESSENTIAL" shall be upgraded to Essential by an Engineering Change Notice (ECN).

5. INTERIM STABILIZATION ESSENTIAL DRAWINGS

PUMPING AND INSTRUMENTATION CONTROL SKIDS (PICS)

DRAWING NO.	ESSENTIAL DRAWING TITLE
H-14-103530, SHT. 5	SKID 'K' PUMPING & INSTR CONTROL ARRANGEMENT
H-14-103530, SHT. 13	SKID 'K' PUMPING & INSTR CONTROL ELEMENTARY DIAGRAM
H-14-103535	P&ID SALTWELL DIP TUBE AIR & WATER SYSTEM (PICS)
H-14-103536	PANELBOARD SCHEDULE PIC SKID 'K'
H-14-103537	PANELBOARD SCHEDULE PIC SKID 'L'
H-14-103538, SHT. 5	SKID 'L' PUMPING & INSTR CONTROL ARRANGEMENT
H-14-103538, SHT. 13	SKID 'L' PUMPING & INSTR CONTROL ELEMENTARY DIAGRAM
H-14-103543	P&ID SALTWELL DIP TUBE AIR & WATER SYSTEM (PICS)
H-14-103544	PANELBOARD SCHEDULE PIC SKID 'M'
H-14-103546, SHT. 5	SKID 'M' PUMPING & INSTR CONTROL ARRANGEMENT
H-14-103546, SHT. 13	SKID 'M' PUMPING & INSTR CONTROL ELEMENTARY DIAGRAM
H-14-103551, SHT 1, 2	P&ID SALTWELL DIP TUBE AIR & WATER SYSTEM (PICS)
H-14-103784, SHT. 5	SKID "N" PUMPING & INSTR CONTROL ARRANGEMENT
H-14-103784, SHT. 13	SKID "N" PUMPING & INSTR CONTROL ARRANGEMENT
H-14-103789, SHT. 1	SKID "N" P&ID SALTWELL DIP TUBE AIR & WATER SYS (PICS)
H-14-103789, SHT. 2	SKID "N" P&ID SALTWELL DIP TUBE AIR & WATER SYS (PICS)
H-14-103790, SHT. 1	PANELBOARD SCHEDULE PIC SKID "N"
H-14-103791, SHT. 5	SKID "P" PUMPING & INSTR CONTROL ARRANGEMENT
H-14-103791, SHT. 13	SKID "P" PUMPING & INSTR CONTROL ARRANGEMENT
H-14-103796, SHT. 1	SKID "P" P&ID SALTWELL DIP TUBE AIR & WATER SYS (PICS)
H-14-103796, SHT. 2	SKID "P" P&ID SALTWELL DIP TUBE AIR & WATER SYS (PICS)
H-14-103797, SHT. 1	PANELBOARD SCHEDULE PIC SKID "P"
H-14-103798, SHT. 5	SKID "Q" PUMPING & INSTR CONTROL ARRANGEMENT
H-14-103798, SHT. 13	SKID "Q" PUMPING & INSTR CONTROL ARRANGEMENT
H-14-103803, SHT. 1	SKID "Q" P&ID SALTWELL DIP TUBE AIR & WATER SYS (PICS)
H-14-103803, SHT. 2	SKID "Q" P&ID SALTWELL DIP TUBE AIR & WATER SYS (PICS)
H-14-103804, SHT. 1	PANELBOARD SCHEDULE PIC SKID "Q"
H-14-103805, SHT. 5	SKID "R" PUMPING & INSTR CONTROL ASSEMBLY
H-14-103805, SHT. 13	SKID "R" PUMPING & INSTR CONTROL ASSEMBLY

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DRAWING NO.	ESSENTIAL DRAWING TITLE
H-14-103810, SHT. 1	SKID "R" P&ID SALTWELL DIP TUBE AIR & WATER SYS (PICS)
H-14-103810, SHT. 2	SKID "R" P&ID SALTWELL DIP TUBE AIR & WATER SYS (PICS)
H-14-103811, SHT. 1	PANELBOARD SCHEDULE PIC SKID "R"
H-14-103812, SHT. 5	SKID "T" PUMPING & INSTR CONTROL ASSEMBLY
H-14-103812, SHT. 13	SKID "T" PUMPING & INSTR CONTROL ASSEMBLY
H-14-103817, SHT. 1	SKID "T" P&ID SALTWELL DIP TUBE AIR & WATER SYS (PICS)
H-14-103817, SHT. 2	SKID "T" P&ID SALTWELL DIP TUBE AIR & WATER SYS (PICS)
H-14-103818, SHT. 1	PANELBOARD SCHEDULE PIC SKID "T"
H-14-104151, SHT. 5	SKID "V" PUMPING & INSTR CONTROL ASSEMBLY
H-14-104151, SHT. 13	SKID "V" PUMPING & INSTR CONTROL ASSEMBLY
H-14-104156, SHT. 1	SKID "V" P&ID SALTWELL DIP TUBE AIR & WATER SYS (PICS)
H-14-104156, SHT. 2	SKID "V" P&ID SALTWELL DIP TUBE AIR & WATER SYS (PICS)
H-14-104157, SHT. 1	PANELBOARD SCHEDULE PIC SKID "V"
H-14-104158, SHT. 5	SKID "W" PUMPING & INSTR CONTROL ASSEMBLY
H-14-104158, SHT. 13	SKID "W" PUMPING & INSTR CONTROL ASSEMBLY
H-14-104163, SHT. 1	SKID "W" P&ID SALTWELL DIP TUBE AIR & WATER SYS (PICS)
H-14-104163, SHT. 2	SKID "W" P&ID SALTWELL DIP TUBE AIR & WATER SYS (PICS)
H-14-104164, SHT. 1	PANELBOARD SCHEDULE PIC SKID "W"
H-14-104187, SHT. 5	SKID "U" PUMPING & INSTR CONTROL ASSEMBLY
H-14-104187, SHT. 13	SKID "U" PUMPING & INSTR CONTROL ASSEMBLY
H-14-104192, SHT. 1	SKID "U" P&ID SALTWELL DIP TUBE AIR & WATER SYS (PICS)
H-14-104192, SHT. 2	SKID "U" P&ID SALTWELL DIP TUBE AIR & WATER SYS (PICS)
H-14-104193, SHT. 1	PANELBOARD SCHEDULE PIC SKID "U"
H-14-104273, SHT. 5	SKID "X" PUMPING & INSTR CONTROL ASSEMBLY
H-14-104273, SHT. 13	SKID "X" PUMPING & INSTR CONTROL ASSEMBLY
H-14-104278, SHT. 1	SKID "X" P&ID SALTWELL DIP TUBE AIR & WATER SYS (PICS)
H-14-104278, SHT. 2	SKID "X" P&ID SALTWELL DIP TUBE AIR & WATER SYS (PICS)
H-14-104279, SHT. 1	PANELBOARD SCHEDULE PIC SKID "X"
H-14-023960, SHT. 2	SALTWELL CONTROL EQUIPMENT (SALW) O&M SYSTEM P&ID
H-14-023960, SHT. 3	SALTWELL CONTROL EQUIPMENT (SALW) O&M SYSTEM P&ID

6. INTERIM STABILIZATION SUPPORT DRAWINGS

PUMPING AND INSTRUMENTATION CONTROL SKIDS (PICS)

DRAWING NO.	SUPPORT DRAWING TITLE
H-14-103530, SHT 7	SKID 'K' PUMPING & INSTR CONTROL ARRANGEMENT
H-14-103530, SHT 8	SKID 'K' PUMPING & INSTR CONTROL ARRANGEMENT
H-14-103530, SHT 9	SKID 'K' PUMPING & INSTR CONTROL ARRANGEMENT
H-14-103530, SHT 10	SKID 'K' PUMPING & INSTR CONTROL ARRANGEMENT
H-14-103530, SHT 11	SKID 'K' PUMPING & INSTR CONTROL ARRANGEMENT
H-14-103530, SHT 12	SKID 'K' PUMPING & INSTR CONTROL ARRANGEMENT
H-14-103533, SHT 5	SKID 'K' LEVEL INSTR ENCL (WFIE) ARRANGEMENT
H-14-103538, SHT 7	SKID 'L' PUMPING & INSTR CONTROL ARRANGEMENT
H-14-103538, SHT 8	SKID 'L' PUMPING & INSTR CONTROL ARRANGEMENT
H-14-103538, SHT 9	SKID 'L' PUMPING & INSTR CONTROL ARRANGEMENT
H-14-103538, SHT 10	SKID 'L' PUMPING & INSTR CONTROL ARRANGEMENT
H-14-103538, SHT 11	SKID 'L' PUMPING & INSTR CONTROL ARRANGEMENT
H-14-103538, SHT 12	SKID 'L' PUMPING & INSTR CONTROL ARRANGEMENT
H-14-103541, SHT 5	SKID 'L' LEVEL INSTR ENCL (WFIE) ARRANGEMENT
H-14-103546, SHT 7	SKID 'M' PUMPING & INSTR CONTROL ARRANGEMENT
H-14-103546, SHT 8	SKID 'M' PUMPING & INSTR CONTROL ARRANGEMENT
H-14-103546, SHT 9	SKID 'M' PUMPING & INSTR CONTROL ARRANGEMENT
H-14-103546, SHT 10	SKID 'M' PUMPING & INSTR CONTROL ARRANGEMENT
H-14-103546, SHT 11	SKID 'M' PUMPING & INSTR CONTROL ARRANGEMENT
H-14-103546, SHT 12	SKID 'M' PUMPING & INSTR CONTROL ARRANGEMENT
H-14-103549, SHT 5	SKID 'M' LEVEL INSTR ENCL (WFIE) ARRANGEMENT
H-14-103784, SHT 7	SKID "N" PUMPING & INSTR CONTROL ARRANGEMENT
H-14-103784, SHT 8	SKID "N" PUMPING & INSTR CONTROL ARRANGEMENT
H-14-103784, SHT 9	SKID "N" PUMPING & INSTR CONTROL ARRANGEMENT
H-14-103784, SHT 10	SKID "N" PUMPING & INSTR CONTROL ARRANGEMENT
H-14-103784, SHT 11	SKID "N" PUMPING & INSTR CONTROL ARRANGEMENT
H-14-103784, SHT 12	SKID "N" PUMPING & INSTR CONTROL ARRANGEMENT
H-14-103787, SHT 5	SKID "N" LEVEL INSTR ENCL (WFIE) ARRANGEMENT
H-14-103791, SHT 7	SKID "P" PUMPING & INSTR CONTROL ARRANGEMENT
H-14-103791, SHT 8	SKID "P" PUMPING & INSTR CONTROL ARRANGEMENT
H-14-103791, SHT 9	SKID "P" PUMPING & INSTR CONTROL ARRANGEMENT
H-14-103791, SHT 10	SKID "P" PUMPING & INSTR CONTROL ARRANGEMENT
H-14-103791, SHT 11	SKID "P" PUMPING & INSTR CONTROL ARRANGEMENT
H-14-103791, SHT 12	SKID "P" PUMPING & INSTR CONTROL ARRANGEMENT
H-14-103794, SHT 5	SKID "P" LEVEL INSTR ENCL (WFIE) ARRANGEMENT
H-14-103798, SHT 7	SKID "Q" PUMPING & INSTR CONTROL ARRANGEMENT
H-14-103798, SHT 8	SKID "Q" PUMPING & INSTR CONTROL ARRANGEMENT
H-14-103798, SHT 9	SKID "Q" PUMPING & INSTR CONTROL ARRANGEMENT

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DRAWING NO.	SUPPORT DRAWING TITLE
H-14-103798, SHT 10	SKID "Q" PUMPING & INSTR CONTROL ARRANGEMENT
H-14-103798, SHT 11	SKID "Q" PUMPING & INSTR CONTROL ARRANGEMENT
H-14-103798, SHT 12	SKID "Q" PUMPING & INSTR CONTROL ARRANGEMENT
H-14-103801, SHT 5	SKID "Q" LEVEL INSTR ENCL (WFIE) ARRANGEMENT
H-14-103805, SHT 7	SKID "R" PUMPING & INSTR CONTROL ASSEMBLY
H-14-103805, SHT 8	SKID "R" PUMPING & INSTR CONTROL ASSEMBLY
H-14-103805, SHT 9	SKID "R" PUMPING & INSTR CONTROL ASSEMBLY
H-14-103805, SHT 10	SKID "R" PUMPING & INSTR CONTROL ASSEMBLY
H-14-103805, SHT 11	SKID "R" PUMPING & INSTR CONTROL ASSEMBLY
H-14-103805, SHT 12	SKID "R" PUMPING & INSTR CONTROL ASSEMBLY
H-14-103808, SHT 5	SKID "R" LEVEL INSTR ENCL (WFIE) ASSEMBLY
H-14-103812, SHT 7	SKID "T" PUMPING & INSTR CONTROL ASSEMBLY
H-14-103812, SHT 8	SKID "T" PUMPING & INSTR CONTROL ASSEMBLY
H-14-103812, SHT 9	SKID "T" PUMPING & INSTR CONTROL ASSEMBLY
H-14-103812, SHT 10	SKID "T" PUMPING & INSTR CONTROL ASSEMBLY
H-14-103812, SHT 11	SKID "T" PUMPING & INSTR CONTROL ASSEMBLY
H-14-103812, SHT 12	SKID "T" PUMPING & INSTR CONTROL ASSEMBLY
H-14-103815, SHT 5	SKID "T" LEVEL INSTR ENCL (WFIE) ASSEMBLY
H-14-104151, SHT 7	SKID "V" PUMPING & INSTR CONTROL ASSEMBLY
H-14-104151, SHT 8	SKID "V" PUMPING & INSTR CONTROL ASSEMBLY
H-14-104151, SHT 9	SKID "V" PUMPING & INSTR CONTROL ASSEMBLY
H-14-104151, SHT 10	SKID "V" PUMPING & INSTR CONTROL ASSEMBLY
H-14-104151, SHT 11	SKID "V" PUMPING & INSTR CONTROL ASSEMBLY
H-14-104151, SHT 12	SKID "V" PUMPING & INSTR CONTROL ASSEMBLY
H-14-104154, SHT 5	SKID "V" LEVEL INSTR ENCL (WFIE) ASSEMBLY
H-14-104158, SHT 7	SKID "W" PUMPING & INSTR CONTROL ASSEMBLY
H-14-104158, SHT 8	SKID "W" PUMPING & INSTR CONTROL ASSEMBLY
H-14-104158, SHT 9	SKID "W" PUMPING & INSTR CONTROL ASSEMBLY
H-14-104158, SHT 10	SKID "W" PUMPING & INSTR CONTROL ASSEMBLY
H-14-104158, SHT 11	SKID "W" PUMPING & INSTR CONTROL ASSEMBLY
H-14-104158, SHT 12	SKID "W" PUMPING & INSTR CONTROL ASSEMBLY
H-14-104161, SHT 5	SKID "W" LEVEL INSTR ENCL (WFIE) ASSEMBLY
H-14-104187, SHT 7	SKID "U" PUMPING & INSTR CONTROL ASSEMBLY
H-14-104187, SHT 8	SKID "U" PUMPING & INSTR CONTROL ASSEMBLY
H-14-104187, SHT 9	SKID "U" PUMPING & INSTR CONTROL ASSEMBLY
H-14-104187, SHT 10	SKID "U" PUMPING & INSTR CONTROL ASSEMBLY
H-14-104187, SHT 11	SKID "U" PUMPING & INSTR CONTROL ASSEMBLY
H-14-104187, SHT 12	SKID "U" PUMPING & INSTR CONTROL ASSEMBLY
H-14-104190, SHT 5	SKID "U" LEVEL INSTR ENCL (WFIE) ASSEMBLY
H-14-104273, SHT 7	SKID "X" PUMPING & INSTR CONTROL ASSEMBLY
H-14-104273, SHT 8	SKID "X" PUMPING & INSTR CONTROL ASSEMBLY
H-14-104273, SHT 9	SKID "X" PUMPING & INSTR CONTROL ASSEMBLY
H-14-104273, SHT 10	SKID "X" PUMPING & INSTR CONTROL ASSEMBLY

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DRAWING NO.	SUPPORT DRAWING TITLE
H-14-104273, SHT 11	SKID "X" PUMPING & INSTR CONTROL ASSEMBLY
H-14-104273, SHT 12	SKID "X" PUMPING & INSTR CONTROL ASSEMBLY
H-14-104276, SHT 5	SKID "X" LEVEL INSTR ENCL (WFIE) ASSEMBLY

7. REFERENCES

CHG 1999a, RPP-PRO-1819, REV. 0, *ENGINEERING REQUIREMENTS*, CH2M HILL HANFORD GROUP, INC., Richland, WA.

CHG 2000a, HNF-IP-0842, VOLUME IV, SECTION 4.25, REV. 0b, *ENGINEERING DRAWINGS*, CH2M HILL HANFORD GROUP, INC., Richland, WA.