ENGINEERING CHANGE NOTICE

Page 1 of 21. ECN **Nº 617703**Proj.
ECN

2. ECN Category (mark one)		3. Originator's Name, Organization, MSIN, and Telephone No.		4. Date	
Supplemental ☐ Direct Revision ☒ Change ECN ☐ Temporary ☐ Standby ☐ Supersedeure ☐ Cancel/Void ☐		R.W. Whitlock 87250 T4-03 373-1737		11/30/94	
		5. Project Title/No./Work Order No.		6. Bldg./Sys./Fac. No.	
		Trench #31		Burial Grounds	
		8. Document Numbers Changed by this ECN (includes sheet no. and rev.)		9. Related ECN No(s).	
		WHC-SD-W025-EMS-002 REV. 0		N/A	
				10. Related PO No.	
				N/A	
11a. Modification Work		11b. Work Package No.		11c. Modification Work Complete	
☐ Yes (fill out Blk. 11b) ☒ No (NA Blks. 11b, 11c, 11d)		N/A		N/A	
		Cog. Engineer Signature & Date		Cog. Engineer Signature & Date	
12. Description of Change					
Revise document WHC-SD-W025-EMS-002 from Rev. 0 to Rev. 1 as shown on the following pages.					
13a. Justification (mark one)					
Criteria Change ☐		Design Improvement ☐		Environmental ☐	
As-Found ☐		Facilitate Const. ☒		Const. Error/Omission ☐	
13b. Justification Details					
To maintain accurate engineering documentation of facility configuration					
Design verification by independent review					
14. Distribution (include name, MSIN, and no. of copies)				RELEASE STAMP	
R.W. Whitlock T4-03 File T4-03 L. Fly T4-03 Central Files L8-04 OSTI (2) L8-07				OFFICIAL RELEASE BY WHC DATE DEC 01 1994 55 <i>Sta. 5</i>	

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ENGINEERING CHANGE NOTICE						Page 2 of 2		1. ECN (use no. from pg. 1) 017703	
15. Design Verification Required ☒ Yes ☐ No		16. Cost Impact <div style="display: flex; justify-content: space-between;"> <div>ENGINEERING</div> <div>CONSTRUCTION</div> </div> Additional ☐ \$ Savings ☐ \$ N/A				17. Schedule Impact (days) Improvement ☐ Delay ☐ N/A			
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.									
SDD/DD	☐	Seismic/Stress Analysis	☐	Tank Calibration Manual	☐				
Functional Design Criteria	☐	Stress/Design Report	☐	Health Physics Procedure	☐				
Operating Specification	☐	Interface Control Drawing	☐	Spares Multiple Unit Listing	☐				
Criticality Specification	☐	Calibration Procedure	☐	Test Procedures/Specification	☐				
Conceptual Design Report	☐	Installation Procedure	☐	Component Index	☐				
Equipment Spec.	☐	Maintenance Procedure	☐	ASME Coded Item	☐				
Const. Spec.	☐	Engineering Procedure	☐	Human Factor Consideration	☐				
Procurement Spec.	☐	Operating Instruction	☐	Computer Software	☐				
Vendor Information	☐	Operating Procedure	☐	Electric Circuit Schedule	☐				
OM Manual	☐	Operational Safety Requirement	☐	ICRS Procedure	☐				
FSAR/SAR	☐	IEFD Drawing	☐	Process Control Manual/Plan	☐				
Safety Equipment List	☐	Cell Arrangement Drawing	☐	Process Flow Chart	☐				
Radiation Work Permit	☐	Essential Material Specification	☐	Purchase Requisition	☐				
Environmental Impact Statement	☐	Fac. Proc. Samp. Schedule	☐	Tickler File	☐				
Environmental Report	☐	Inspection Plan	☐						
Environmental Permit	☐ N/A	Inventory Adjustment Request	☐ N/A						
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					
<hr/>		N/A		<hr/>					
20. Approvals									
Signature		Date		Signature		Date			
<u>OPERATIONS AND ENGINEERING</u>				<u>ARCHITECT-ENGINEER</u>					
Cog. Eng. <i>[Signature]</i>		<i>11/30/94</i>		PE		<hr/>			
Cog. Mgr. <i>[Signature]</i>		<i>12/1/94</i>		QA		<hr/>			
QA		<hr/>		Safety		<hr/>			
Safety		<hr/>		Design		<hr/>			
Environ.		<hr/>		Environ.		<hr/>			
Other <i>END. Rev. [Signature]</i>		<i>12/1/94</i>		Other		<hr/>			
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				<u>DEPARTMENT OF ENERGY</u>					
				Signature or a Control Number that tracks the Approval Signature					
				<hr/>					
				<u>ADDITIONAL</u>					
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RELEASE AUTHORIZATION

Document Number: WHC-SD-W025-EMS-002, REV.1

Document Title: Weight/Balance Portable Test Equipment

Release Date: December 1, 1994

**This document was reviewed following the
procedures described in WHC-CM-3-4 and is:**

APPROVED FOR PUBLIC RELEASE

WHC Information Release Administration Specialist:

Kara M. Broz

December 1, 1994

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SUPPORTING DOCUMENT		1. Total Pages 36
2. Title Weight/Balance Portable Test Equipment	3. Number WHC-SD-W025-EMS-002	4. Rev No. 1
5. Key Words Lined trench, Trench #31, Leachate, Loadout Pad	6. Author Name: R.W. Whitlock Signature: <i>[Signature]</i> 11/30/94 Organization/Charge Code 87250/A7D38	
<p>APPROVED FOR PUBLIC RELEASE</p> <p><i>KMB 12/1/94</i></p>		
7. Abstract This document shows the general layout, and gives a part description for the Weight/Balance Test Equipment.		

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8. RELEASE STAMP

OFFICIAL RELEASE
BY WHC
DATE **DEC 01 1994**
55 *SLA-5*

The following pages show the general layout and details of the Weight/Balance Portable Test Equipment. This equipment can aide in the regulating of the leachate being loaded into a tanker.

W025, TRENCH 31 & TRENCH 34, LEACHATE TRANSPORT TANKERS (POLAR, HO-64-3858 & HO-64-3859) WEIGHT/BALANCE PORTABLE TEST EQUIPMENT, SKETCH 1 SHEET 1

DATA INSTRUMENTS PRESSURE
TRANSDUCER, MODEL XPRO,
0-15 PSIG, 4-20MA OUTPUT,
1/4" MALE NPT THREAD WITH
CABLE CONNECTOR

SJHO HEAVY DUTY RETRACTILE
ELECTRICAL CORD #16, 3 WIRE,
PART # 7520K63 ONE END
TRANSDUCER CONNECTOR, OTHER
END AMPHENOL STRAIGHT PLUG,
MALE 4 PIN MS3106A 14S-2P
"636", AN3057 "636" CABLE
CLAMP WITH TELESCOPING BOOT

1/4" NYLON SELF
RETRACTING AIR HOSE,
1/4" MALE NPT RIGID
THREAD ONE END, OTHER
END 1/4" MALE NPT
360 DEGREE SWIVEL BODY
CONNECTOR

EXISTING TRANSPORT
TANKER WEIGHT/BALANCE
CONNECTIONS

EXPANDED VIEW
TANKER DIP TUBE
WEIGHT/BALANCE
CONNECTION

1/2" SS ANDREWS CAM & GROOVE
FEMALE COUPLER X MALE NPT
THREAD, 1/2" SS TEE X FEMALE
NPT THREAD, 1/2" SS MALE NPT
THREAD X CLOSE NIPPLES, 1/2" X
3/8" SS REDUCERS FEMALE NPT
THREAD, 3/8" MALE NPT THREAD
X CLOSE NIPPLES, 3/8" X 1/4"
REDUCERS FEMALE NPT THREAD

W025, TRENCH 31 & TRENCH 34, LEACHATE TRANSPORT
TANKERS (POLAR, HO-64-3858 & HO-64-3859)
WEIGHT/BALANCE PORTABLE TEST EQUIPMENT,
SKETCH 1 SHEET 2

SJEO HEAVY DUTY RETRACTILE ELECTRICAL CORD, #16,
3 WIRE, PART# 7520K63, ONE END AMPHENOL
STRAIGHT PLUG MALE 4 PIN MS3106A 14S-2P "636",
AN3057 "636", CABLE CONNECTOR WITH TELESOPING
BOOT OTHER END AMPHENOL CABLE RECEPTACLE,
FEMALE 4 PIN, MS3101A 14S-2S "636", AN3057 "636"
CABLE CONNECTOR WITH TELESOPING BOOT, LAND
BLACK WIRE ON PIN #1, WHITE WIRE ON PIN #2 AND
GREEN WIRE ON PIN #3

SJEO HEAVY DUTY RETRACTILE ELECTRICAL CORD, #16,
3 WIRE, PART# 7520K63, ONE END TRANSDUCER
CONNECTOR, OTHER END AMPHENOL STRAIGHT PLUG
MALE 4 PIN MS3106A 14S-2P "636", AN3057 "636"
CABLE CONNECTOR WITH TELESOPING BOOT

SJEO HEAVY DUTY RETRACTILE ELECTRICAL CORD, #16,
3 WIRE, PART# 7520K63, BOTH ENDS AMPHENOL
STRAIGHT PLUG MALE 3 PIN MS3106A 14S-1P "636",
AN3057 "636" CABLE CONNECTOR WITH TELESOPING
BOOT, LAND BLACK WIRE ON PIN #1, WHITE WIRE ON
PIN #2 AND GREEN WIRE ON PIN #3

SJEO HEAVY DUTY RETRACTILE ELECTRICAL CORD, #12,
3 WIRE, PART# 7520K23, ONE END AMPHENOL
STRAIGHT PLUG MALE 5 PIN MS3106A 14S-5P "636",
AN3057 "636" CABLE CONNECTOR WITH TELESOPING
BOOT, OTHER END 120VAC STANDARD 3 PIN
RECEPTACLE PLUG, (AMPHENOL END) LAND BLACK
WIRE ON PIN #1, WHITE WIRE ON PIN #2 AND GREEN
WIRE ON PIN #3, OTHER END LAND BLACK WIRE ON
HOT SCREW, WHITE WIRE ON NEUTRAL SCREW AND
GREEN WIRE ON GROUND SCREW

W025, TRENCH 31 & TRENCH 34, LEACHATE
TRANSPORT TANKERS (POLAR, HO-64-3858
& HO-64-3859) WEIGHT/BALANCE PORTABLE
TEST EQUIPMENT,
SKETCH 1 SHEET 3

WHC-SD-W025-EMS-002
REV 1
PAGE 4 OF 5

ALUMINUM DESK-TOP INSTRUMENT ENCLOSURE,
8"X 12" X 18 3/4" WITH ADJUSTABLE
HANDLE/TILTING BAR, ALLIED ELECTRONICS PART # 736Q7670

INSTALL AMPHENOL WALL
RECEPTACLE, FEMALE 5 PIN,
MS 3100A 14S-5S "636", AN3057
"636" CABLE CLAMP WITH MS3420
TELESCOPING BOOT, INSTALL #16
THHN BLACK WIRE TO PLUG PIN #1
AND TBC, #C1, INSTALL #16 THHN
WHITE WIRE TO PLUG PIN# 2 AND
TBC, #C2, INSTALL # 16 THHN
GREEN WIRE TO PLUG PIN # 3 AND
TBC, #C3

RED LION CONTROLS, MODEL
IMP-20102 PROGRAMMABLE
CONTROLLER MOUNTED ON
DESK TOP ENCLOSURE FACE
PLATE

INSTALL AMPHENOL WALL
RECEPTACLE, FEMALE 3 PIN,
MS 3100A 14S-1S "636", AN3057
"636" CABLE CLAMP WITH MS3420
TELESCOPING BOOT, INSTALL #16
THHN BLACK WIRE TO PLUG PIN #1
AND TBD, #D1, INSTALL #16 THHN
RED WIRE TO PLUG PIN# 2 AND
TBD, #D2, INSTALL # 16 THHN
GREEN WIRE TO PLUG PIN # 3 AND
BD, #D3

INSTALL AMPHENOL WALL
RECEPTACLE, FEMALE 4 PIN,
MS 3100A 14S-2S "636", AN3057
"636" CABLE CLAMP WITH MS3420
TELESCOPING BOOT, INSTALL #16
THHN BLUE WIRE TO PLUG PIN #1
AND TBE, #E1, INSTALL #16 THHN
ORANGE WIRE TO PLUG PIN# 2 AND
TBE, #E2, INSTALL # 16 THHN
GREEN WIRE TO PLUG PIN # 3 AND
TBE, #E3

WHC-SD-W025-EMS-002
REV 1
PAGE 5 OF 5

INSTALL 2 TERMINAL,
DOUBLE ROW FEED-THROUGH,
TERMINAL STRIP, LIFT
CONTACTOR COIL WIRE
LANDED ON COIL TERMINAL
#3, RELAND ON RIGHT SIDE
OF TERMINAL STRIP, INSTALL
#16 THHN BLACK WIRE, LAND ONE
END ON LEFT SIDE OF TERMINAL
STRIP, OTHER ON PLUG PIN #1

INSTALL AMPHENOL WALL
RECEPTACLE, FEMALE 3 PIN,
MS 3100A 14S-1S "636",
AN3057 "636" CABLE CLAMP
WITH MS3420 TELESCOPING BOOT

AMPHENOL STRAIGHT
PLUG MALE 3 PIN
MS 3106A 14S-1P "636",
AN3057 "636" CABLE
CLAMP WITH WIRE JUMPER
FROM PIN #1 TO PIN #2

POWER FEED TO
LEACHATE
STORAGE TANK
TRANSFER
PUMP MOTOR

INSTALL GFI RECEPTACLE WITH
MOISTUREPROOF RECEPTACLE COVER
IN EACH OF TWO EXISTING MOISTURE
BOXES, CONNECT RECEPTACLE(S) TO
EXISTING SPARE (3) CONDUCTORS,
TIE OTHER END OF SPARE CONDUCTORS
TO BREAKER #12, PANEL NEUTRAL AND
PANEL GROUND AT PANEL B,
TR31-EL-PPB

RECEPTACLE WIRING: INSTALL #16 THHN BLACK WIRE, LAND ONE END ON PLUG PIN #1, LAND OTHER END ON LEFT SIDE OF TERMINAL STRIP. INSTALL #16 THHN RED WIRE, LAND ONE END ON PLUG PIN #2, LAND OTHER END ON COIL TERMINAL #3. INSTALL #16 THHN GREEN WIRE, LAND ONE END ON PLUG PIN #3, LAND OTHER END ON GROUND TERMINAL.