2. ECN Category (mark one)
   - Supplemental □
   - Direct Revision [X]
   - Change ECN □
   - Temporary □
   - Standby □
   - Supersede □
   - Cancel/Void □

3. Originator's Name, Organization, MSIN, and Telephone No.
   - R.W. Whitlock 87250 T4-03 373-1737

4. Date
   - 11/30/94

5. Project Title/No./Work Order No.
   - Trench #31

   - OR-5

7. Approval Designator
   - N/A

8. Document Numbers Changed by this ECN
   - WHC-SD-W025-EMS-002 REV. 0

9. Related ECN No(s).
   - N/A

10. Related PO No.
    - N/A

11a. Modification Work
    - [ ] Yes (fill out Blk. 11b)
    - [X] No (NA Blks. 11b, 11c, 11d)

11b. Work Package No.
    - N/A

11c. Modification Work Complete:
    - N/A

11d. Restored to Original Condition (Temp. or Standby ECN only)
    - N/A

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 Criteria Change (mark one)
   - [ ] Design Improvement
   - [ ] Environmental
   - [ ] As-Found
   - [X] Facilitate Const.
   - [ ] Const. Error/Omission
   - [ ] Design 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)
   - R.W. Whitlock T4-03
   - File T4-03
   - L. Fly T4-03
   - Central Files L8-04
   - OSTI (2) L8-07

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DATE DEC 01 1994
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## ENGINEERING CHANGE NOTICE

### 15. Design Verification Required
- [X] Yes
- [ ] No

### 16. Cost Impact

<table>
<thead>
<tr>
<th>ENGINEERING</th>
<th>CONSTRUCTION</th>
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<tr>
<td>Additional</td>
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<td>[ ] $</td>
<td>[ ] $</td>
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### 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.

<table>
<thead>
<tr>
<th>Document</th>
<th>Work Permit</th>
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<tbody>
<tr>
<td>SDD/DD</td>
<td>Seismic/Stress Analysis</td>
</tr>
<tr>
<td>Functional Design Criteria</td>
<td>Stress/Design Report</td>
</tr>
<tr>
<td>Operating Specification</td>
<td>Interface Control Drawing</td>
</tr>
<tr>
<td>Criticality Specification</td>
<td>Calibration Procedure</td>
</tr>
<tr>
<td>Conceptual Design Report</td>
<td>Installation Procedure</td>
</tr>
<tr>
<td>Equipment Spec.</td>
<td>Maintenance Procedure</td>
</tr>
<tr>
<td>Const. Spec.</td>
<td>Engineering Procedure</td>
</tr>
<tr>
<td>Procurement Spec.</td>
<td>Operating Instruction</td>
</tr>
<tr>
<td>Vendor Information</td>
<td>Operating Procedure</td>
</tr>
<tr>
<td>OM Manual</td>
<td>Operational Safety Requirement</td>
</tr>
<tr>
<td>FSAR/SAR</td>
<td>IFED Drawing</td>
</tr>
<tr>
<td>Safety Equipment List</td>
<td>Cell Arrangement Drawing</td>
</tr>
<tr>
<td>Radiation Work Permit</td>
<td>Essential Material Specification</td>
</tr>
<tr>
<td>Environmental Report</td>
<td>Inspection Plan</td>
</tr>
<tr>
<td>Environmental Permit</td>
<td>Inventory Adjustment Request</td>
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<tr>
<td>N/A</td>
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### 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.

<table>
<thead>
<tr>
<th>Document Number/Revision</th>
<th>Document Number/Revision</th>
<th>Document Number Revision</th>
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### 20. Approvals

#### OPERATIONS AND ENGINEERING

<table>
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<td>PE</td>
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<td>1/1/94</td>
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<td>Add. Rev.</td>
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#### ARCHITECT-ENGINEER

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#### DEPARTMENT OF ENERGY

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<th>Signature or a Control Number that tracks the Approval Signature</th>
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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:

[Signature]
Kara M. Broz
December 1, 1994

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A-6001-400.2 (09/94) WEF256
This document shows the general layout, and gives a part description for the Weight/Balance Test Equipment.
<table>
<thead>
<tr>
<th>Revision</th>
<th>Description of Change - Replace, Add, and Delete Pages</th>
<th>Authorized for Release</th>
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<tr>
<td>1 RS</td>
<td>REVISED PAGE 5 OF 5 TO SHOW NEW OUTLET LOCATION. REVISED PER ECN</td>
<td>[Signature] 11/3/94</td>
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INITIAL RELEASE EDT 605069 11/3/94
The following pages show the general layout and details of the Weight/Balance Portable Test Equipment. This equipment can aid 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 PSIQ, 4-20MA OUTPUT,
1/4" MALE NPT THREAD WITH CABLE CONNECTOR.

SJE HEAVY DUTY RETRACTILE ELECTRICAL CORD #16, 3 WIRE,
PART # 720K52 ONE END TRANSDUCER CONNECTOR, OTHER END AMPHENOL STRAIGHT FLUG,
MALE 4 PIN M33166A 148-2P "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 TELESCOPING BOOT OTHER END AMPHENOL CABLE RECEPTACLE, FEMALE 4 PIN, MS3101A 14S-2S "636", AN3057 "636" CABLE CONNECTOR WITH TELESCOPING 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, BOTH ENDS AMPHENOL STRAIGHT PLUG MALE 3 PIN MS3106A 14S-1P "636", AN3057 "636" CABLE CONNECTOR WITH TELESCOPING 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 TELESCOPING 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

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

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 TBC, #D1, INSTALL #16 THHN RED WIRE TO PLUG PIN #2 AND TBC, #D2, INSTALL #16 THHN GREEN WIRE TO PLUG PIN #3 AND TBC, #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 TBC, #E1, INSTALL #16 THHN ORANGE WIRE TO PLUG PIN #2 AND TBC, #E2, INSTALL #16 THHN GREEN WIRE TO PLUG PIN #3 AND TBC, #E3

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

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

INSTALL (3) 3 TERMINAL, DOUBLE ROW, FEED THROUGH TERMINAL STRIPS. LABEL AS SHOWN

TERMINAL STRIPS ON THE BACK OF CONTROLLER
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.