



- NOTES:**
- SEE DRAWINGS 24590-WTP-M6-50-00001 THROUGH 24590-WTP-M6-50-00008 FOR GENERAL NOTES, SYMBOLS AND LEGEND, AND GENERAL SLOPE REQUIREMENTS.
  - CONTENTS OF THIS DOCUMENT ARE DANGEROUS WASTE PERMIT AFFECTING.
  - THE PRESSURE BOUNDARY FOR ALL COMPONENTS ON THIS DRAWING IS QUALITY LEVEL CM AND SEISMIC CATEGORY SC-IV, UNLESS OTHERWISE NOTED.
  - ALL LINES SHOWN ON THIS DRAWING SHALL BE FREE DRAINING, UNLESS OTHERWISE NOTED.
  - SUMP SHALL BE FLAT BOTTOM SUMP.
  - STANDPIPE TO BE INSTALLED FROM 1/2" OFF OF THE BOTTOM OF THE SUMP TO 3 FEET ABOVE THE SUMP.
  - LOCATE IN THE TRUCK BAY AREA (E-0108).
  - LOCATE FLUSH CONNECTION ON THE TOP OF THE PROCESS PIPE AS CLOSE AS POSSIBLE TO THE CHECK VALVE
  - FUNCTION CONVERTS SUMP LEVEL IN INCHES TO GALLONS.
  - LOCATE ISOLATION VALVE AND QUICK DISCONNECT NEAR OUTSIDE OF BERM FOR CONNECTION TO OFF-SITE DISPOSAL.
  - SUMP CONTENTS ARE SAMPLED PRIOR TO TRANSFER TO ENSURE COMPATIBILITY IN PROCESS. FOR OFF-SITE DISPOSAL OF A SPILL, MANUAL VALVE DEP-V-00220 NEEDS TO BE OPENED AND PUMP STARTED VIA OVERRIDE.
  - FOR CONNECTION TO LOCAL DIW UTILITY STATION FOR FLUSHING.

- HOLD/OPEN ITEMS:**
- SUMP SAMPLING DESIGN ON HOLD PENDING IDENTIFICATION OF A METHOD OF OBTAINING A SAMPLE WITHOUT REQUIRING THE SUMP PUMP OPERATING. SUMP PUMP MAY REQUIRE MORE LIQUID THEN AVAILABLE WHEN SAMPLE IS REQUIRED. SAMPLE DESIGN SHOULD NOT ALLOW TRANSFER BETWEEN SUMPS.
  - VACUUM BREAKER ON HOLD PENDING SIZING CALCULATION.

- REFERENCES:**
- 24590-BOF-32D-25-00001, WTP DIRECT FEED LOW ACTIVITY WASTE (DLAW) FACILITY AND SYSTEM DESIGN DESCRIPTIONS.

PLEASE NOTE THAT SOURCE, SPECIAL NUCLEAR AND BYPRODUCT MATERIALS, AS DEFINED IN THE ATOMIC ENERGY ACT OF 1954 (AEA) ARE REGULATED AT THE U.S. DEPARTMENT OF ENERGY (DOE) FACILITIES EXCLUSIVELY BY DOE ACTING PURSUANT TO ITS AEA AUTHORITY (DOE ASSETS) THAT PURSUANT TO THE AEA IT HAS SOLE AND EXCLUSIVE RESPONSIBILITY AND AUTHORITY TO REGULATE SOURCE SPECIAL NUCLEAR AND BYPRODUCT MATERIALS AT DOE-OWNED NUCLEAR FACILITIES. INFORMATION CONTAINED HEREIN ON RADIONUCLIDES IS PROVIDED FOR PROCESS DESCRIPTION PURPOSES ONLY.

|                                 |     |                         |     |      |      |         |
|---------------------------------|-----|-------------------------|-----|------|------|---------|
| <b>CM</b><br>QUALITY DESIGNATOR | 0   | ISSUED FOR CONSTRUCTION | JJD | RP   | BPV  | 3/24/16 |
|                                 | REV | DESCRIPTION             | ORG | CHKD | RVWD | APVD    |

|   |   |
|---|---|
| PROJECT No. 24590<br>SITE HANFORD<br>AREA 200E<br>BUILDING No. 25 | RIVER PROTECTION PROJECT<br>WASTE TREATMENT PLANT<br>2435 STEVENS CENTER PLACE<br>RICHLAND, WA 99354                                      |
| CONTRACT No. DE-AC27-01RV14136                                    | <b>P&amp;ID - BOF / EMF</b><br><b>DIRECT FEED LAW EMF</b><br><b>PROCESS SYSTEM</b><br><b>MISCELLANEOUS SUMPS</b><br><b>DEP-SUMP-00008</b> |

|   |                                    |
|---|------------------------------------|
| ORIGINATOR<br>CHECKER<br>APPROVER<br>REVIEWER<br>APPROVER | BY<br>DATE<br>DATE<br>DATE<br>DATE |
|---|------------------------------------|

CONTENT APPLICABLE TO ALARA?  YES  NO  
 ADR NO. 24590-WTP-ADR-M-16-0001 REV. 1

SCALE: NONE  
 24590-BOF-M6-DEP-00009003 REV 0

'E' SIZE - 44x34  
 COMPUTER GENERATED - MANUAL DESIGN CHANGES NOT PERMITTED  
 3/22/2016 11:02:53 AM  
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