



- NOTES:**
- SEE DRAWING 24590-WTP-M5-V17T-00001 FOR GENERAL NOTES AND SYMBOLS AND LEGEND.
 - CONTENTS OF THIS DOCUMENT ARE DANGEROUS WASTE PERMIT AFFECTING.
 - ONLY MAJOR INDICATION AND CONTROL INSTRUMENTATION SHOWN.
 - STREAM TABLES FOR SYSTEMS DEP AND DVP PROVIDED ON 24590-BOF-M5-V17T-0001001 AND -0001002.
 - DEP-PMP-00004A/B/C AND DEP-PMP-00012A/B/C ARE RATED FOR 2 X 50% NORMAL OPERATIONS.
 - EACH TRANSFER LINE REQUIRES DRAIN BACK TO THE LOW POINT DRAIN VESSEL, DEP-VSL-00001.
 - BACKFLUSH PROVIDED BY PROCESS CONDENSATE (PREFERRED) OR DIW. FILTER AND SOLIDS REQUIRE CONTAMINATED SOLID MATTER DISPOSAL.
 - OVERFLOW TO LOW POINT DRAIN VESSEL, DEP-VSL-00001.
 - DEP-VSL-00001 OVERFLOW PASSES THROUGH A LOOP SEAL WITH LEVEL INDICATION AND DIW MAKE-UP.
 - BATCH TRANSFER RATE IS 130 GPM. REQUIRED RECIRCULATION RATE TO BE DETERMINED BY VENDORS. SEE HOLD/OPEN ITEMS.
 - RLD21 AND RLD27 TRANSFER FROM LAW THROUGH THE SAME LINE AT SEPARATE TIMES WITHOUT BLENDING. TRANSFER OF RLD27 IS AN OFF-NORMAL OCCURRENCE.
 - TRANSFER RATE FROM RLD-VSL-00005 PROVIDES THROUGHPUT FOR DEP-FILT-00003.
 - TRANSFER LINE DRAINS FOR TRANSFERS FROM LVP-TK-00001, RLD-VSL-00003/5, RLD-VSL-00164, AND DEP-VSL-00003A/B/C.

- HOLD/OPEN ITEMS:**
- PUMP SIZING FOR RECIRCULATION RATE TO BE DETERMINED BY VENDOR.
 - DEP-AGT-00001 HORSEPOWER BASED UPON LCP-VSL-00001 AGITATOR DESIGN. DEP-AGT-00001 FINAL HORSEPOWER TO BE DETERMINED BY VENDOR.

- REFERENCES:**
- 24590-BOF-3ZD-25-00001, WTP DIRECT FEED LOW ACTIVITY WASTE (DFLAW) FACILITY AND SYSTEM DESIGN DESCRIPTIONS.
 - 24590-WTP-RPT-PR-01-008, PROCESS STREAM NUMBERS.
 - 24590-WTP-RPT-ENG-02-009, SYSTEM AND AREA LOCATORS LIST AND SYSTEM DIVISION OF RESPONSIBILITY.
 - 24590-WTP-RPT-ENG-02-010, COMPONENT IDENTIFIERS LIST.
 - 24590-BOF-MVC-DEP-00009, BATCH SIZING CALCULATION FOR DEP (DIRECT FEED LAW EFFLUENT MANAGEMENT FACILITY PROCESS SYSTEM) VESSELS: DEP-VSL-00001, -00002, -00003A/B/C, -00004A/B, -00005A/B.
 - 24590-BOF-MVC-DEP-00007, PROCESS DATA FOR OVERHEAD SAMPLING VESSELS (DEP-VSL-00004A/B) AND PUMPS (DEP-PMP-00004A/B/C).
 - 24590-BOF-MVC-DEP-00003, PROCESS DATA FOR EVAPORATOR FEED VESSEL (DEP-VSL-00002), TRANSFER PUMPS (DEP-PMP-00002A/B), AND RECIRCULATION PUMPS (DEP-PMP-00012A/B/C).
 - 24590-BOF-MVC-DEP-00011, PROCESS DATA FOR THE LOW POINT DRAIN VESSEL, DEP-VSL-00001, AND PUMPS, DEP-PMP-00001A/B.
 - 24590-LAW-MVC-RLD-00007, PROCESS DATA INPUT FOR LAW SBS CONDENSATE COLLECTION VESSEL, RLD-VSL-00005, AND DISCHARGE PUMPS (RLD-PMP-00003A/B).

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 asserts that pursuant to 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.

REV	ISSUED FOR DESIGN	DATE	BY	CHKD	RVD	APVD	DATE
0	ISSUED FOR DESIGN	3/24/16	WTR	WTR	WTR	WTR	3/24/16

ISSUED BY	PROJECT No.	RIVER PROTECTION PROJECT
RPP-WTP PDC	24590	WASTE TREATMENT PLANT
ISSUE STAMP	HANFORD	2435 STEVENS CENTER PLACE
	AREA	RICHLAND, WA 99354
	BUILDING No. 25	
BY	DATE	CONTRACT No. DE-AC27-01RV14136
ORIGINATOR	3/24/16	
CHECKER	3/24/16	
APPROVER	3/24/16	
REVIEWER	WTR	

SCALE	24590-BOF-M5-V17T-00011	REV
NONE		0