



- NOTES:**
1. ALL EQUIPMENT NUMBERS ON THIS DRAWING ARE PREFIXED BY HPI UNLESS OTHERWISE NOTED. SEE NOTE 13.
  2. ALL INSTRUMENT NUMBERS ON THIS DRAWING ARE PREFIXED BY IPI UNLESS OTHERWISE NOTED.
  3. FLUSHING CONNECTIONS SHOULD BE AS CLOSE TO THE COMPONENT ISOLATION VALVES AS POSSIBLE.
  4. THIS P&I IS NOT "Q" LISTED. "Q" IDENTIFICATION IS FOR MINOR AREAS ONLY, AS SHOWN.
  5. PIPING INSIDE THE CONDENSATE STORAGE TANK WILL BE STAINLESS STEEL AND SUPPLIED BY THE TANK MANUFACTURER.
  6. ALL PIPING, 2" AND SMALLER IS CLASSIFIED AS III-B RADIATION LEVEL.
  7. FREEZE PROTECTION SHALL BE PROVIDED FOR ALL EXPOSED INSTRUMENT LINES LOCATED IN THE DIKE.
  8. FOR PENETRATION MATERIAL & DETAIL SEE DRAWING 9645-C-1004.
  9. ALL START-UP STRAINERS SHALL BE REPLACED BY TBM SPACER IN ACCORDANCE WITH THE LATEST REVISION OF 9645-MS-03 GENERAL NOTE 17.
  10. TEMPORARY N<sub>2</sub> SPARGER CONNECTION ALL MATERIAL INCLUDING SS FULL COUPLING NOZZLE FOR TANK PENETRATION IS TO BE SUPPLIED BY BECHTEL AND INSTALLED BY TANK SUBCONTRACTOR.
  11. FIRE HOSE CONNECTION INSTALLED FOR USE AS REACTOR VESSEL MAKEUP FROM P64 SYSTEM DURING ACCIDENT CONDITION.
  12. IF EXPERIENCE SHOWS THAT PIPE WEAR FROM THE HYDROLASING PROCESS IS SIGNIFICANT, PIPE WALL THICKNESS SHALL BE MEASURED BEFORE AND AFTER ANY HYDROLASING PROCEDURE. MINIMUM WALL SHALL BE AS FOLLOWS:  
 .280" FOR 8"-HBD-373  
 .248" FOR 12"-HBD-374  
 .248" FOR 12"-HBD-31
  13. THIS PORTION OF THE HPCS/RIC SUCTION PIPING WITHIN THE CONDENSATE STORAGE TANK DIKE IS INSTALLED AS ASME HCB-9 PIPING. HOWEVER, THE ASME HCB-9 PIPE, VENT AND DRAIN VALVES (F415 & F422) WITHIN THE CST DIKE PERFORM NO SAFETY RELATED FUNCTION. THE SAFETY RELATED PORTION OF HCB-9 IS THE PIPING THAT CONTAINS THE INSTRUMENTATION TO PERMIT SWITCHING THE WATER SOURCE FOR THE RIC/HPCS PUMPS FROM THE CST TO THE SUPPRESSION POOL. THIS PIPING COULD HAVE BEEN CLASSIFIED AS NON-NUCLEAR BUT WAS CLASSIFIED AS ASME TO ESTABLISH A DESIGN/INSTALLATION QUALITY ASSURANCE LEVEL.
  14. VENT VALVE (F431 OR F433) MUST BE OPENED UPON CLOSING ADJACENT VALVES (F429 & F430 OR F81 & F432) AND CLOSED IMMEDIATELY PRIOR TO OPENING ADJACENT VALVES. VENT VALVES VERIFY LEAK TIGHTNESS OF ADJACENT VALVES.

COMPONENTS SUBJECT TO AMR  
 NON-SAFETY RELATED SYSTEMS & COMPONENTS AFFECTING SAFETY RELATED SYSTEMS AMM20  
 CONDENSATE & REFUELING WATER STORAGE & TRANSFER SYSTEM AMM25

NO.	REVISIONS	DATE	BY	CHK	APP	DATE
043	AS-BUILT PER EC 3923	SP	N/A	N/A	WE	MM 18-23
042	AS-BUILT PER CR-2007-00119 CAI21	WE	N/A	N/A	SP	VRH 9-24-07

GRAND GULF NUCLEAR STATION  
 UNIT 1  
 NUCLEAR PLANT ENGINEERING  
**UPDATED FINAL SAFETY ANALYSIS REPORT**  
 FIGURE NUMBER - 09.2-016

P & I DIAGRAM  
 CONDENSATE & REFUELING WATER STORAGE & TRANSFER SYSTEM UNIT-1

SCALE: NONE DRAWING No. M-1065 REV. 043

NO.	DATE	DESCRIPTION	BY	ENG	CHK	APP
REVISIONS						
<b>LRA-M-1065</b>						
CAD FILE: m1065.DGN						
PLOT FILE:						

D179