



Anchor  
Ref 1331D,  
HL1331D,  
M1850002,  
M185000A

- NOTES:
1. ALL INSTRUMENT NUMBERS ON THIS DRAWING ARE PREFIXED BY IP44 UNLESS OTHERWISE NOTED.
  2. ALL EQUIPMENT NUMBERS ON THIS DRAWING ARE PREFIXED BY NIP44 UNLESS OTHERWISE NOTED.
  3. THIS P & I DIAGRAM IS NOT "O" LISTED. "O" IDENTIFICATION IS FOR MINOR AREAS ONLY AS SHOWN.
  4. PROCESS PIPE AND SLEEVE ARE ONE & THE SAME WITHIN THE AREA WHERE NOTED. THE DIMENSIONS ARE INDICATED ON DWG. 9645-C-1054 FOR DRYWELL PENETRATIONS AND 9645-C-1004 FOR CONTAINMENT PENETRATIONS.
  5. AT OPERATORS DISCRETION, ANY TWO OF THE THREE 50% CAPACITY PLANT CHILLERS MAY BE USED FOR NORMAL OPERATION.
  6. PIPING IS USED FOR INSTRUMENT LINES WITHIN THE DRYWELL. ALL INSTRUMENT LINES PENETRATING THE DRYWELL AT OR ABOVE ELEVATION 135'-4" SHALL HAVE ROOT VALVES LOCATED AS CLOSE AS PRACTICAL TO THEIR PENETRATIONS ON CONTAINMENT SIDE. ALL INSTRUMENT LINES PENETRATING THE DRYWELL BELOW ELEVATION 135'-4" SHALL CONFORM TO INSTRUMENT INSTALLATION DETAIL 3-B0305. INSTRUMENT TUBING SHALL BE RUN BETWEEN THE ROOT VALVES AND INSTRUMENTS LOCATED OUTSIDE THE DRYWELL.
  7. A SPECIAL COUPLING WITH 1/4" DIAMETER ORIFICE SHALL BE INSTALLED AS CLOSE AS PRACTICAL TO WHERE THE INSTRUMENT LINE CONNECTS TO THE DRYWELL PENETRATION.
  8. ALL PIPING 2" AND SMALLER IS CLASSIFIED AS III-"A" RADIATION LEVEL.
  9. THESE CONNECTIONS PROVIDED FOR USE OF CHEMICAL MONITORING EQUIPMENT.
  10. DELETED.
  11. EC 18160 INSTALLED AN AIR GAG, WITH NITROGEN BACKUP, ON VALVES IP44F107, F118, F121 AND F122. THEREFORE THESE VALVES ARE NO LONGER FAIL CLOSED.
  12. EC 18161 INSTALLED AN AIR GAG, WITH NITROGEN BACKUP, ON VALVES IP44F116, F119, F120 AND F123. THEREFORE THESE VALVES ARE NO LONGER FAIL CLOSED.
  13. HANDSWITCH HAS BEEN ELECTRICALLY DISABLED.

NO.	REVISIONS	DATE	BY	CHK	APP	DATE		
041	AS-BUILT PER EC-18160 AND ECN-21702		SP	N/A	N/A	WE	BH	5-5-10
040	AS-BUILT PER ECN 21704 TO EC 18161		WE	N/A	N/A	SP	BH	5-3-10
039	AS-BUILT PER EC 10295		SP	N/A	N/A	EMJ	MM	9-11-08

GRAND GULF NUCLEAR STATION  
UNIT 1  
NUCLEAR PLANT ENGINEERING  
**UPDATED FINAL SAFETY ANALYSIS REPORT**  
FIGURE NUMBER - 9.2-022

P & I DIAGRAM  
PLANT SERVICE WATER SYSTEM  
SCALE: NONE  
DRAWING No. M-1072A  
REV. 041

COMPONENTS SUBJECT TO AMR

■	STANDBY SERVICE WATER SYSTEM AMM12
■	NON-SAFETY RELATED SYSTEMS & COMPONENTS AFFECTING SAFETY RELATED SYSTEMS AMM20
■	PLANT SERVICE WATER SYSTEM AMM29

NO.	DATE	DESCRIPTION	BY	ENG	CHK	APP
REVISIONS						
<b>LRA-M-1072A</b>						
DRAWING FILE: m1072a.dgn						