



- NOTES:
1. ALL EQUIPMENT NUMBERS ON THIS DRAWING ARE PREFIXED BY NINI UNLESS OTHERWISE NOTED.
 2. ALL INSTRUMENT NUMBERS ON THIS DRAWING ARE PREFIXED BY IN19 UNLESS OTHERWISE NOTED.
 3. ALL PIPING 2" AND SMALLER ON DWG. M-1053A AND M-1053C IS CLASSIFIED AS 1" E, 1" C, 1" D, OR 1" B RADIATION LEVEL. ALL PIPING 2" AND SMALLER ON DWG. M-1053B IS CLASSIFIED AS 1" B RADIATION LEVEL.
 4. M-1053C SHOWS THE PHYSICAL ARRANGEMENT OF DRAIN LINES ON CONDENSER MANIFOLD. THE ASSOCIATED DRAIN LINE IS LOCATED ON A CONDENSER MANIFOLD CORRESPONDING TO:
 - A. CONDENSER CONNECTION NO. 140.
 - B. DELETED
 - C. DELETED
 - D. DELETED
 5. ALL START UP STRAINERS, EXCEPT SS-0001A, B AND C SHALL BE REPLACED BY RING SPACERS IN ACCORDANCE WITH THE LATEST REV. OF 9645-M5-03, GEN. NOTE 17. ONLY THE INTERNALS OF STRAINERS SS-0001A, B, C SHALL BE REMOVED.
 6. INSTRUMENT CONNECTION TO A-C PSI DWG. NO. 7153-01347, "VACUUM PRESSURE TRANSMITTER RACK".
 7. DELETED.
 8. CONDENSATE PUMP START UP STRAINERS WILL NOT BE USED FOR UNIT 2.
 9. 1" COUPLING LINE BY A-C PSI TO HYDRAULIC CONTROL EQUIPMENT RACK MAIN STEAM BY-PASS CONTROL REFER TO A-C PSI DWG. 7153-12024, CONTROL FLUID PIPING DIAGRAM.
 10. EACH MANIFOLD HAS A MAXIMUM LENGTH OF 36 INCHES.
 11. DRAIN LINES TO THE MANIFOLD ARE MOUNTED AT 45 DEGREES TO THE MANIFOLD AXIAL CENTERLINE, WITH THE DRAIN LINE DISCHARGE POINTING TOWARD THE CONDENSER.
 12. NO DRAIN LINES ARE TO BE CONNECTED TO THE BOTTOM OF THE MANIFOLD.
 13. A-CPSI EQUIPMENT NUMBERS ARE SHOWN IN PARENTHESES.
 14. CYCLONE SEPARATORS, STRAINERS AND RESTRICTING ORIFICES TO BE FIELD PURCHASED IN ACCORDANCE WITH THE MECHANICAL BILL OF MATERIALS, M-0004, FOR SEAL WATER LUBRICATION LINES.
 15. INSTRUMENT IS ALSO PIPED TO THE OUTLET OF LPFW4A, 4B, 4C, SHOWN AS N19P400A, B, C, TO ALLOW FOR FUTURE INSTALLATION OF A DIFFERENTIAL PRESSURE TYPE INSTRUMENT TO FACILITATE PERFORMANCE EVALUATION OF THE FEED WATER HEATERS.
 16. FOR CONTROL FLUID PIPING TO VALVE AND ADDITIONAL INFORMATION, REFER TO P & ID M-11170.
 17. 300# R.F. FLANGE CAN BE USED IN PLACE OF 600# R.F. FLANGE FOR RESTRICTION ORIFICES IN 1" F80-45 LINE.
 18. FOR DETAILS OF THIS PIPE SEE INSTALLATION DRAWING J-01030.

NO.	REVISIONS	DATE	BY	CHK	APP	DATE	
017	AS-BUILT PER ER 2000-0847		WE	N/A	N/A	JHT	5-10-01
018	AS-BUILT PER ER-GG-2001-0041-0008-B		WE	N/A	N/A	JHT	11-6-02
019	AS-BUILT PER ER-GG-2001-0408-0008-00 & ER-GG-2003-0024-0008-00		WE	N/A	N/A	SIP	9-11-04
020	AS-BUILT PER EC 13062		WE	N/A	N/A	EMJ	6-1-10

GRAND GULF NUCLEAR STATION
 UNIT 1
 NUCLEAR PLANT ENGINEERING

UPDATED FINAL SAFETY ANALYSIS REPORT
 FIGURE NUMBER -10.4.012

P & I DIAGRAM
 CONDENSATE SYSTEM

SCALE:	DRAWING No.	REV.
NONE	M-1053C	020

COMPONENTS SUBJECT TO AMR
 NON-SAFETY RELATED SYSTEMS & COMPONENTS AFFECTING SAFETY RELATED SYSTEMS AMR20

NO.	DATE	DESCRIPTION	BY	ENG	CHK	APP
REVISIONS						
LRA-M-1053C						
CAD FILE: m1053c.dgn						
PAPER FILE:						