



- NOTES:
1. ALL EQUIPMENT NUMBERS ON THIS DRAWING ARE PREFIXED BY 1003 UNLESS OTHERWISE NOTED.
  2. INSTALL FLOW ELEMENT FENICES AS CLOSE TO ISOLATION VALVE AS PRACTICAL.
  3. ALL INSTRUMENT NUMBERS ON THIS DRAWING ARE PREFIXED BY 1033 UNLESS OTHERWISE NOTED.
  4. THIS PAID DRAWING FROM G.E. PAID NO. 10604939 REV. 6 REACTOR WATER CLEANUP SYSTEM.
  5. ABANDONED IN PLACE.
  6. THIS SYSTEM IS NOT "0" LISTED, "0" IDENTIFICATION IS FOR MINOR AREAS ONLY AS SHOWN.
  7. DELETED.
  8. ALL PIPING 2" & SMALLER IS CLASSIFIED AS 1-"E" RADIATION LEVEL.
  9. ASME SECTION III, CLASS 3 PIPING CLASSIFIED AS NON-Q-NON-SEISMIC CATEGORY I WILL NOT REQUIRE AN "N" STAMP.
  10. DELETED.
  11. ALL START-UP STRAINERS SHALL BE REPLACED BY RING SPACERS IN ACCORDANCE WITH THE LATEST REV. OF 90-AS-83 GENERAL NOTE 17.
  12. A SPECIAL COUPLING WITH 1/4" DIAMETER ORIFICE SHALL BE INSTALLED AS CLOSE AS PRACTICAL TO WHERE THE INSTRUMENT LINE CONNECTS TO THE REACTOR COOLANT SYSTEM.
  13. 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 INSULATION DETAIL J-8306. INSTRUMENT TUBING SHALL BE RUN BETWEEN THE ROOT VALVES AND INSTRUMENTS LOCATED OUTSIDE THE DRYWELL. THE 6"-DBB-148 SHALL BE MAINTAINED IN ACCORDANCE WITH AND INSERVE INSPECTIONS PERFORMED EQUIVALENT TO ASME SECTION III, CLASS I REQUIREMENTS (REF: MAEC-87/8330).

- COMPONENTS SUBJECT TO AMR
- █ REACTOR COOLANT SYSTEM PRESSURE BOUNDARY AMM03
  - █ RESIDUAL HEAT REMOVAL SYSTEM AMM06
  - █ CONTAINMENT PENETRATIONS AMM07
  - █ LEAKAGE DETECTION AND CONTROL SYSTEM AMM19
  - █ NON-SAFETY RELATED SYSTEMS & COMPONENTS AFFECTING SAFETY RELATED SYSTEMS AMM20

046	AS-BUILT PER EC 13132	W/C	N/A	N/A	SP	CW	11-10
045	AS-BUILT PER EC 10650	W/C	N/A	N/A	W/C	EMJ	10-30-88
044	AS-BUILT PER EC 0947 & EC 1066	W/C	N/A	N/A	SP	EMJ	7-8-88
043	AS-BUILT PER DRN 02-155 REF. ER CG-2001-0207-000-00	W/C	SIGN-OFF	ON RECORD			

GRAND GULF NUCLEAR STATION  
UNIT  
NUCLEAR PLANT ENGINEERING

**UPDATED FINAL SAFETY ANALYSIS REPORT**  
FIGURE NUMBER - 5.4-021

P & I DIAGRAM  
REACTOR WATER CLEAN-UP SYSTEM  
UNIT I

SCALE: NONE DRAWING No. M-1079 REV. 046

MPL No. 1G33 1015M DFN: m1079.dgn

REVISIONS				
NO.	DATE	DESCRIPTION	BY	ENG. CHK. APP.
LRA-M-1079				
01	10-16-2011			