



- NOTES:
1. ALL EQUIPMENT NUMBERS ON THIS DRAWING ARE PREFIXED BY NIN44 UNLESS OTHERWISE NOTED.
  2. ALL INSTRUMENT NUMBERS ON THIS DRAWING ARE PREFIXED BY IN44 UNLESS OTHERWISE NOTED. REFER TO INSTRUMENT INDEX FOR UPC INSTRUMENT NUMBERS.
  3. THE HYDROGEN BULK STORAGE UNIT, THE CARBON DIOXIDE BULK STORAGE UNIT, AND THE NITROGEN BOTTLES WILL BE LOCATED OUTSIDE.
  4. RUN H<sub>2</sub> GUARD PIPE UNDERGROUND FROM HYDROGEN BULK STORAGE UNIT TO JUST INSIDE UNIT 1 TURBINE BLDG. A CAP WILL IMMEDIATELY FOLLOW THE GUARD PIPE.
  5. RUN NITROGEN GUARD PIPE UNDERGROUND FROM NITROGEN BOTTLE RACK TO JUST INSIDE THE TURBINE BUILDING. AN ISOLATION VALVE WILL IMMEDIATELY FOLLOW THE GUARD PIPE.
  6. DIELECTRIC FLANGE INSULATION REQUIRED FOR THE FLANGES, BOLTS, ETC.
  7. ALL PIPING 2" AND SMALLER IS CLASSIFIED AS III-"A" RADIATION LEVEL.
  8. DELETED.
  9. FOR ADDITIONAL INFORMATION ON FIELD ROUTING OF VENT PIPING, REFER TO ACP/SDI DOCUMENT M-TE 7548E DIRECTIONS FOR THE INSTALLATION OF WASTE GAS LINES.
  10. PORTIONS OF THE DESIGN OF THE GENERATOR GAS SYSTEM WERE ORIGINATED BY UTILITY POWER CORPORATION. PARTS OF THIS DRAWING WERE PREPARED FROM UPC DRAWING 24-2084-55143-DIAGRAM OF THE GAS SUPPLY AND THE UPC GENERATOR INSTRUCTION MANUAL NO. 460000353.
  11. ABANDONED IN PLACE.
  12. TANKS INSTALLED AS REQUIRED.
  13. ALL COMPONENTS INSIDE THE DOTTED LINE ARE FURNISHED BY LECTRODRYER FOR THE GENERATOR GAS RACK NIN44D001. FOR DETAILS SEE DRAWINGS M-97/8324-NIN44D001-M-1.1-001 AND -1.6-001.
  14. EXISTING HYDROGEN SUPPLY WILL BE REPLACED BY IMPLEMENTATION OF THE HYDROGEN INJECTION SUBSYSTEM (P73) PER ER 96/0936.
  15. COMPONENTS NOT SUPPLIED BY VENDOR, PLANT WILL SUPPLY THESE COMPONENTS AND PROVIDE INSTRUCTIONS FOR INSTALLATION.

COMPONENTS SUBJECT TO AMR  
 NON-SAFETY RELATED SYSTEMS &  
 COMPONENTS AFFECTING SAFETY  
 RELATED SYSTEMS AMM20

003	AS-BUILT PER EC 25450	WE	N/A	N/A	SP	CW	10-29-10
002	AS-BUILT PER DRN 8302	WE	N/A	N/A	SP	HT	2-28-03
001	AS-BUILT PER ER 96/0936-86-00	W	N/A	N/A	WE	JFB	8-19-99

GRAND GULF NUCLEAR STATION  
 UNIT 1  
 NUCLEAR PLANT ENGINEERING

**UPDATED FINAL SAFETY ANALYSIS REPORT**  
 FIGURE NUMBER - 10.2-001-1

P & I DIAGRAM  
 HYDROGEN & CARBON DIOXIDE SYSTEM

SCALE: NONE DRAWING No. M-1044A REV. 003  
 COMMON-UNIT 1 CONTROLLER MPL No. IN441015M

0	9-29-2011						
NO.	DATE	DESCRIPTION	BY	ENG	CHK	APP	
REVISIONS							
<b>LRA-M-1044A</b>							
001		001					

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DFN: m1044a.dgn

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