

REV	REFERENCE DRAWINGS	BECHTEL NO	GE NO
1	RCIC PUMP TURBINE	M-50	
2	P & ID LEGEND	M-00	
3	RCIC FUNCTION CONTROL DIAGRAM	M-51-1030-F	729E622-0
4	NUCLEAR BOILER	M-51	
5	NUCLEAR BOILER FUNCTION CONTROL DIAGRAM	M-52-1030-F	761 E557AD
6	RESIDUAL HEAT REMOVAL	M-53	
7	HIGH PRESSURE COOLANT INJECTION	M-55	
8	RCIC TURBINE OUTLINE	M-51-1030-C-2	VFP 2757-0
9	CONDENSATE	M-05	
10	CONDENSATE REF WATER STOR & TRANSFER	M-08	
11	MAIN STEAM	M-01	
12			
13	LIQUID WASTE COLLECTION	M-61	
14	RCIC SYS DESIGN SPECIFICATION	M-51-400-L-1	22A154
15	RCIC OVERSPEED TRIP	M-51-1030-B-1	VFP 2757-0
16	RCIC TURBINE CONTROL DIAGRAM	M-51-1030-E-2	VFP 2757-0
17	RCIC SYSTEM P & ID (GF)	M-51-1030-D-1	761E 236 AD
18	PLANT LEAK DETECTION	M-25	
19	PROCESS MET TYPING & TUBING DESIGN SPEC	M-51-1030-1	22A978
20	RCIC FUNCTIONAL DESCRIPTION	M-49FD	

REVISION 3 OF THIS P & ID REQUIRES REVISION OF THE FOLLOWING RELATED DOCUMENTS:

QA D	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	NA <input type="checkbox"/>
FD TEXT	YES <input type="checkbox"/>	NO <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
LOGIC DIAGRAM	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	NA <input type="checkbox"/>

- NOTES:
1. RCIC IS A CLASS I SEISMIC SYSTEM EXCEPT AS NOTED.
  2. SLOPE STEAM LINE DOWN ALL THE WAY FROM MAIN STEAM LINE TO DRAIN POT JUST ABOVE OF TURBINE.
  3. LOCATE VALVE HV101 (CON: F) AS CLOSE AS POSSIBLE TO PUMP SUCTION LINE FROM CONDENSATE STORAGE TANK.
  4. AC POWER FOR RCIC INSTRUMENTS SHALL BE DERIVED FROM A DC SOURCE SEPARATE FROM THAT WHICH SUPPLIES THE HPCI SYSTEM, VIA THE UNINTERRUPTIBLE AC OR COMPARABLE DC TO A CONVERSION SYSTEM.
  5. PIPING POINT VENTS SHALL BE LOCATED AS NEAR AS POSSIBLE TO THE POINT OF RELEASE.
  6. THE DRUM NUMBER FOR THIS SYSTEM IS E-51.
  7. TEMPERATURE LEAK DETECTION FOR THIS SYSTEM IS SHOWN ON REF 18; THE TEMPERATURE INSTRUMENTS ARE INDEXED AS PART OF REF 18 (M-49).
  8. ALL INSTRUMENTS SHALL BE LOCATED WITHIN THE PRIMARY CONTAINMENT DRYWELL.
  9. ALL STEAM LINES SHALL BE SLOPED.
  10. ALL LIQUID LINES INSIDE THE PRIMARY CONTAINMENT SHALL BE SLOPED WHERE PRACTICAL.
  11. FILL LINE SHOULD BE LOCATED AT HIGH POINT (L.S.)
  12. VALVE FOOT SHOULD BE LOCATED AT HIGH POINT (L.S.)
  13. THIS LINE TO BE CONTINUOUSLY SLOPED 45° TO SURGE CHAMBER.
  14. TEMPERATURE ELEMENT TO BE MOUNTED ON OUTSIDE SURFACE.
  15. INSTALL VALVE HV101 AS SHOWN WITH THE SIGN THAT FLOW IS UP THE SEAT TO COMPLY WITH APPENDIX I.

NUCLEAR ENERGY SERVICES  
 DRN BY *[Signature]*  
 CKD BY *[Signature]*  
 GROUP A  
 GROUP B  
 GROUP C

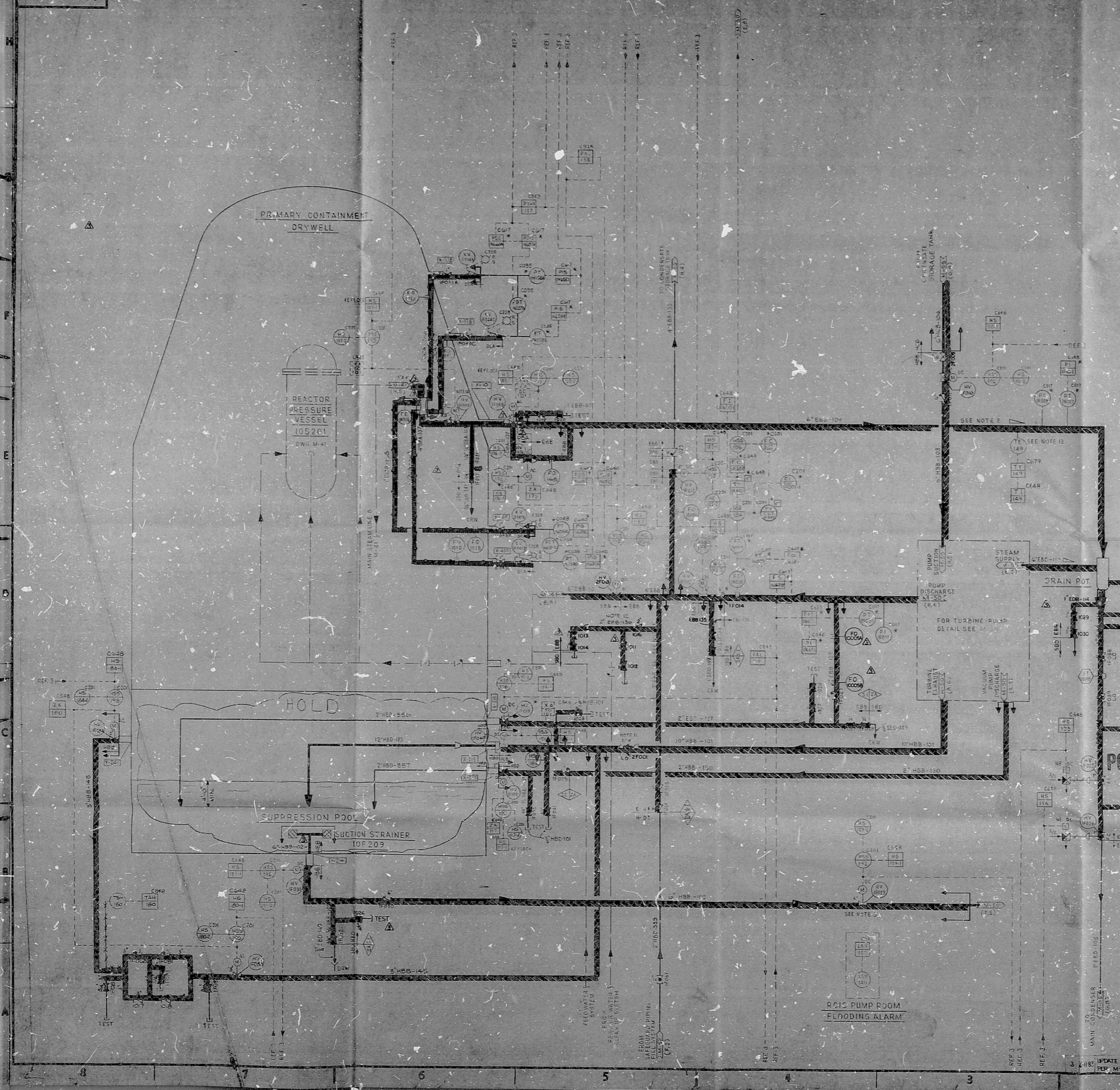
POOR ORIGINAL

ALL PIPING DESIGNATED BY IS ASME SECT. XI  
 LWB, IWC EXCEPT.

THIS ISI IS BASED ON P & ID 8031-M-49 REV. 16

USE THIS DOCUMENT FOR INSERVICE INSPECTION ONLY. BACKGROUND MAY NOT BE CORRECT.

2	CLARIFICATION NOTATION		
1	INCORPORATED BECHTEL COMMENTS		
DATE	BY	CHKD BY	DATE
NONE	BRADY J. E. RYAN	BRADY J. CHOW	
<b>BECHTEL</b> SAN FRANCISCO			
LIMERICK GENERATING STATION UNITS 1 & 2 PHILADELPHIA ELECTRIC COMPANY			
<b>ISI</b> REACTOR CORE ISOLATION COOLING			
JOB NO.	DRAWING NO.	REV.	
8031	ISI-M-49	3	
8031000289			



34"  
22"  
17"  
11"  
8.5"  
11"  
17"  
22"  
A  
B  
C  
D  
E  
F  
G  
H

34"  
22"  
17"  
11"  
8.5"  
11"  
17"  
22"  
A  
B  
C  
D  
E  
F  
G  
H

FRONT APERTURE CARD

UPDATE AS NOTED  
 PER P-49 REV 16



RIDS

8210040289

