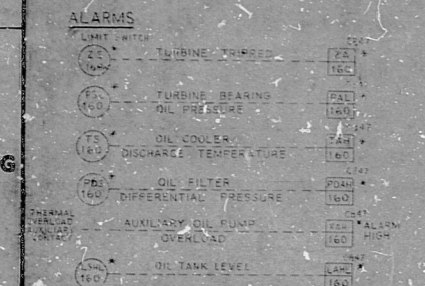
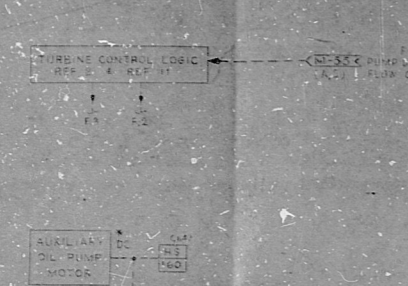


8031-M-56

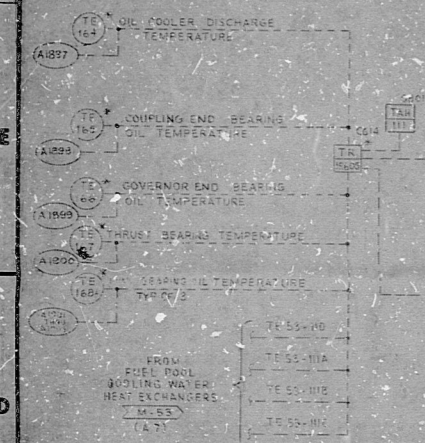
TURBINE SUPERVISORY INSTRUMENTATION



TURBINE HYDRAULIC CONTROL SYSTEM



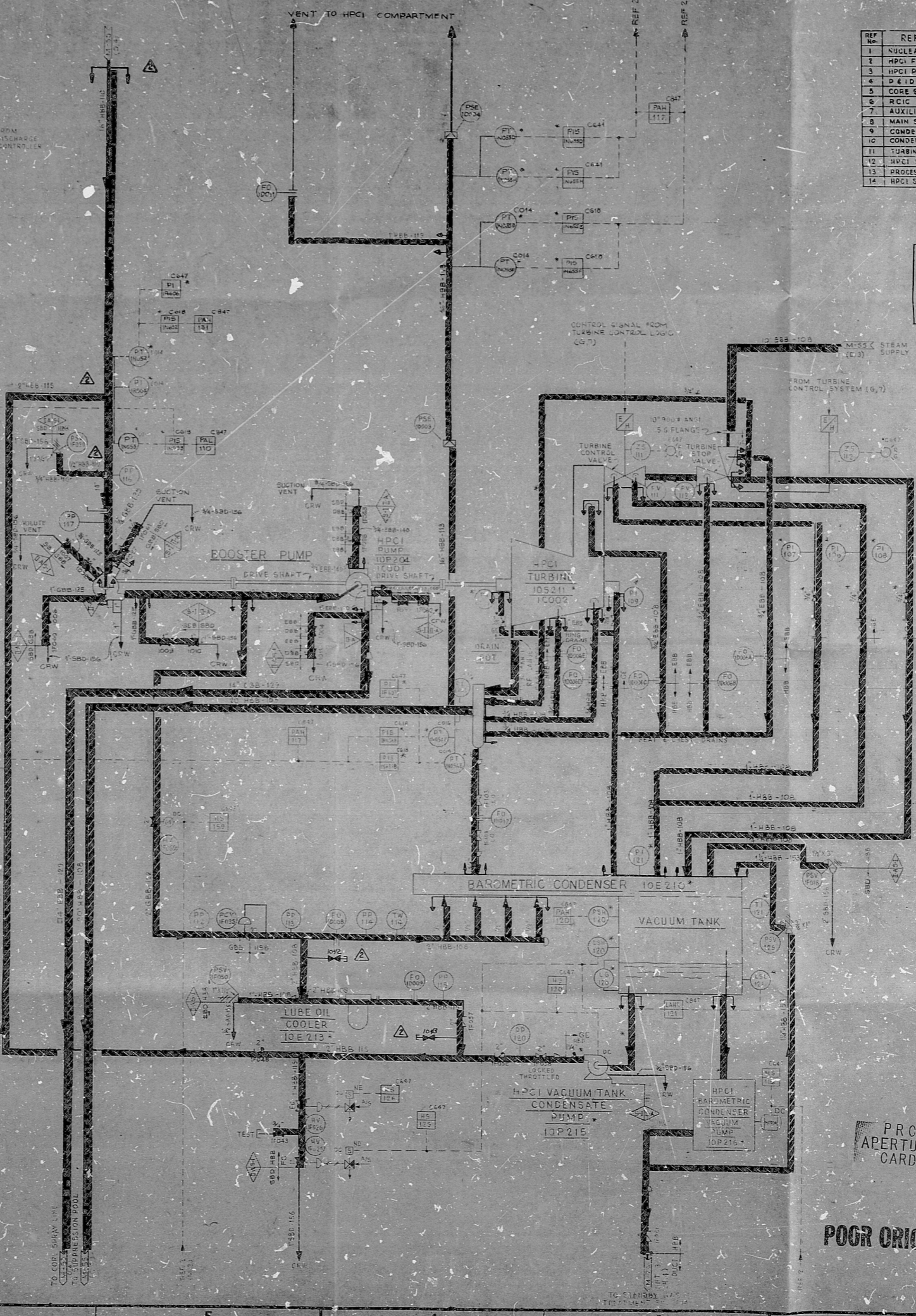
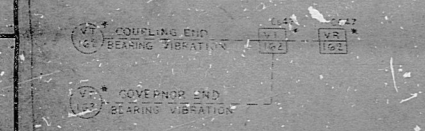
TEMPERATURE RECORDING



TURBINE SPEED



SHAFT VIBRATION



REF No.	REFERENCE DRAWINGS	BECHTEL No.	GE No.
1	NUCLEAR BOILER	M-41	
2	HPCI FUNCTIONAL CONTROL DIAGRAM	8531M410054	729 M 677A0
3	HPCI PUMP TURBINE	M-56	
4	P&ID LEGEND	M-03	
5	CORE SPRAY	M-53	
6	RCIC	M-49	
7	AUXILIARY STEAM	M-21	
8	MAIN STEAM	M-01	
9	CONDENSATE	M-05	
10	CONDENSATE REFUELING WATER STORAGE	M-08	
11	TURBINE CONTROLS DIAGRAM	8031M410054	VPE 2743-92
12	HPCI SYSTEM P&ID	8031M410054	14E230A0
13	PROCESS INST PIPING & TUBING DESIGN SPEC	8031M410054	72 A 7 32
14	HPCI SYSTEM DESIGN SPEC	8031M410054	77 A 5 21

REVISION 2 OF THIS P&ID REQUIRES REVISION OF THE FOLLOWING RELATED DOCUMENTS:

QAD YES NO NA
 FD TEXT YES NO NA
 LOGIC DIAGRAM YES NO NA

- NOTES:
- HPCI IS A CLASS I SEISMIC SYSTEM EXCEPT AS NOTED.
 - AC POWER FOR HPCI INSTRUMENTS SHALL BE DERIVED FROM THE PLANT DC POWER SYSTEM, VIA AN INVERTER. THE DC SOURCE IS TO BE SEPARATE FROM THAT WHICH SUPPLIES THE RCIC SYSTEM.
 - THE GE MPL NUMBER FOR THIS SYSTEM IS E-41.
 - THE BAROMETRIC CONDENSER AND VACUUM TANK SHALL BE LOCATED SO THAT ITS WATER LEVEL IS BELOW THE BOTTOM OF THE TURBINE EXHAUST.
 - ALL INSTRUMENT PIPING & TUBING SHALL BE INSTALLED IN ACCORDANCE WITH REFERENCE IS.
 - ALL STEAM LINES SHALL BE SLOPED WHERE PRACTICAL.
 - ALL PIPING DESIGNATED BY IS LIT EXEMPT.

NUCLEAR ENERGY SERVICES
 DESIGNED BY: [Signature]
 CHECKED BY: [Signature]
 GROUP A
 GROUP B
 GROUP C

THIS P&ID IS BASED ON P&ID 8031-M-56 REV. 13

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

PRO APERTURE CARD

2	UPDATE AS NOTED PER M-56 REV. 13 AND TO CLARIFY DESCRIPTIONS	ISS	REV
1	INCORPORATED BECHTEL CORP. FILES	ISS	REV
DATE	APPROVED	DATE	BY
NONE	J. E. BARNBURN	DATE	Z. CROW
BECHTEL SAN FRANCISCO			
LIMERICK GENERATING STATION UNITS 1 & 2 PHILADELPHIA ELECTRIC COMPANY			
ISI HPCI PUMP TURBINE			
JOB No.	UNAPPROVED FILE	REV.	
8031	ISS-M-56	2	
820040316			

POOR ORIGINAL

8210040316

