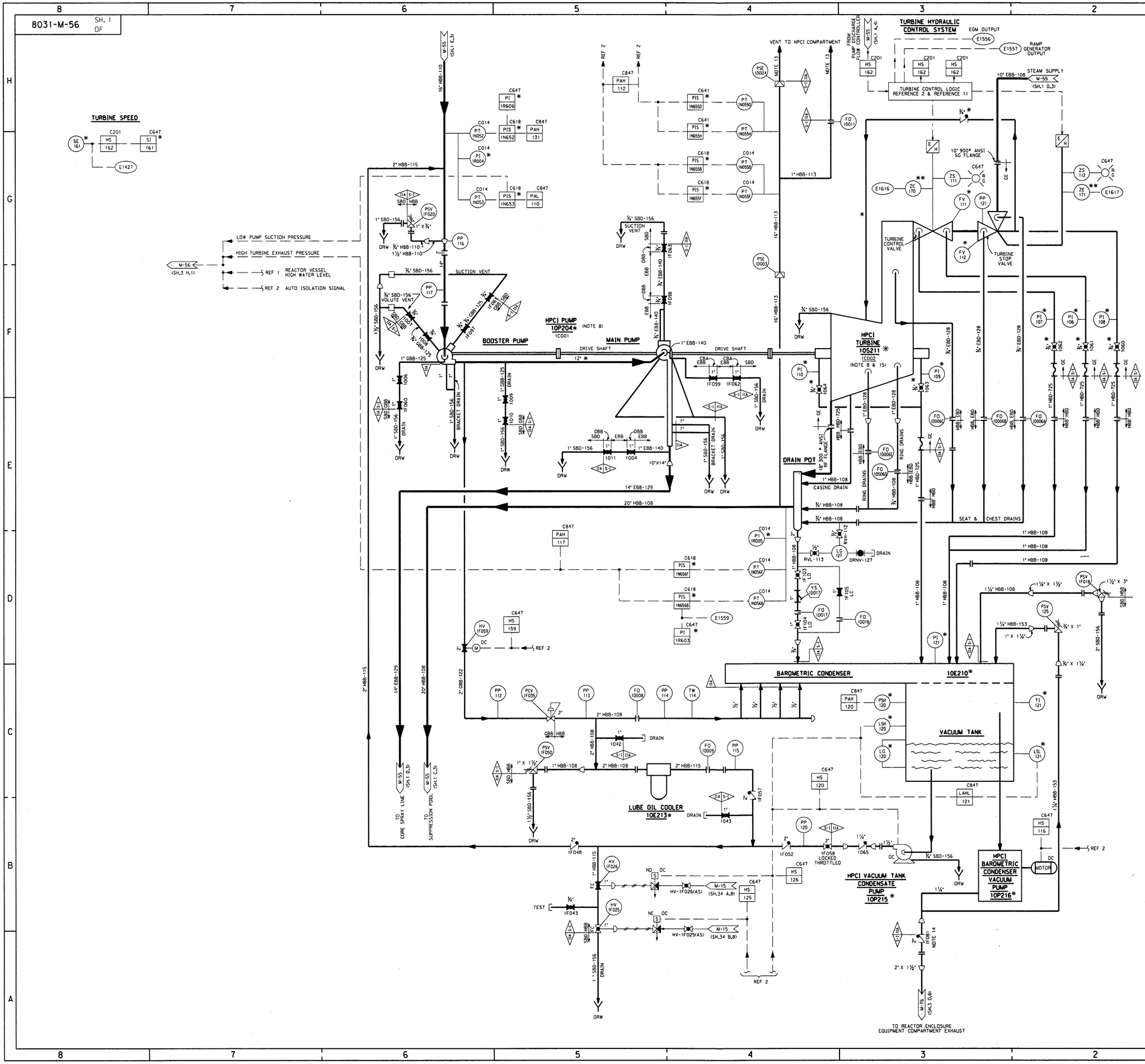
8031-M-56 SH. 1 OF



REF No.	REFERENCE DRAWINGS	BECHTEL No.	GE No.
1	NUCLEAR BOILER P&ID	M-41	
2	HPCI FUNTIONAL CONTROL DIAGRAM	8031-M1-E41-1030-F	729E627AD
3	HPCI PUMP/TURBINE P&ID	M-56	
4	P&ID LEGEND	M-00	
5	CORE SPRAY P&ID	M-52	
6	RCIC P&ID	M-49	
7	AUXILIARY STEAM P&ID	M-21	
8	MAIN STEAM P&ID	M-01	
9	CONDENSATE P&ID	M-05	
10	CONDENSATE & REFUELING WATER STORAGE P&ID	M-08	
11	TURBINE CONTROLS DIAGRAM	8031-M1-E41-C002-K	VPF 2763-92-1
12	HPCI SYSTEM P&ID	8031-M1-E41-1010-D	761E230AD
13	PROCESS INST. PIPING & TUBING DESIGN SPEC	8031-M1-A61-4070-L	22A3732
14	HPCI SYSTEM DESIGN SPEC	8031-M1-E41-4010-L	22A3021
15	INSTRUMENT INSTALLATION DETAILS	8031-M-830	NA

NOTES:

1. HPCI IS A SEISMIC CATEGORY I SYSTEM EXCEPT AS NOTED.
2. 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.
3. THE GE MPL NUMBER FOR THIS SYSTEM IS E-41.
4. THE BAROMETRIC CONDENSER AND VACUUM TANK SHALL BE LOCATED SO THAT ITS WATER LEVEL IS BELOW THE BOTTOM OF THE TURBINE EXHAUST.
5. ALL INSTRUMENT PIPING AND TUBING SHALL BE INSTALLED IN ACCORDANCE WITH REFERENCE 13. FOR DEVIATIONS TO SLOPE CRITERIA SEE REF. 15.
6. ALL STEAM LINES SHALL BE SLOPED WHERE PRACTICAL.
7. NON-Q DRAIN AND VENT LINES AND CAPPED ENDS EXTENDING FROM SEISMIC CATEGORY I PIPING ARE SEISMIC CATEGORY IIA DOWNSTREAM OF THE LAST ISOLATION VALVE.
8. THIS EQUIPMENT (F,3-5) IS BEING MONITORED BY THE VIBRATION MONITORING SYTEM (VMS). FOR THE TYPE OF SENSORS BEING USED, SEE VMS I/O SUMMARY, VP DWG 8031-M-247-108.
9. PORTION OF THE HBB-110 SUCTION LINE FROM THE PUMP TO THE FLANGE MAY BE TESTED AT THE SAME PRESSURE AS GBB-125. (F,6)
10. DELETED.
11. FOR ALL NON-SEISMIC CATEGORY I CAPPED VENTS, DRAINS, AND TEST CONNECTIONS: DESIGN, FABRICATION, MATERIAL PROCUREMENT, ERECTION AND TESTING FOR ALL PIPING DOWNSTREAM OF THE LAST ISOLATION VALVE MAY BE IN ACCORDANCE WITH DESIGN CODE "D".
12. DELETED.
13. FOR ALL SEISMIC CATEGORY IIA HBB-113 PIPING DOWNSTREAM OF FO-1D011 AND PSE-1D004; DESIGN, FABRICATION, MATERIAL PROCUREMENT, ERECTION AND TESTING MAY BE IN ACCORDANCE WITH PIPING CLASS DESIGNATION, DESIGN CODE "D" (H,4).
14. REMOVE VALVE INTERNALS FROM BAROMETRIC CONDENSER VACUUM PUMP DISCHARGE LINE CHECK VALVE 1F081 (A,3), PER MDCP-614.
15. PERMANENT REMOVAL OF ONE "ACTIVE" CARBON RING PER HPCI TURBINE GLAND IS ACCEPTABLE PER LG ECR 05-00126.
16. DELETED.
17. POINT CONNECTIONS SHOWN ON DRAWING H12-P614-E-002 SHT.1.

ND	DATE	DESCRIPTION	REV'D	CHK'D	APP'D
43	12/30/97	INCORP. EC 422851 REV.12 PER ECR 13-00310 REV.1. DELETED NOTE 16. AT (E,1-2).	AJN	RCM	TKS
42	12/30/97	INCORP. EC 423037 REV.6 PER W/O 4180185. ADDED NOTE 17. AT (E-1).	EJV	JCW	JMK
41	11/5/19	INCORP. ECR LG 13-00310 REV.3 PER W/O C0258360. ADDED NOTE 16. AT (E-1).	EJV	JCW	JMK
40	1/13/26	INCORP. ECR LG 05-00126 R/O PER W/O C0213086. ADDED NOTE 15 AND A REFERENCE TO IT AT F,3.	EJW	JCW	NT

TABLE OF ADDITIONS & CHANGES
USE ONLY PRINTS SHOWING LATEST DATE

MECHANICAL

P&ID
HPCI PUMP/TURBINE
(UNIT 1)

LIMERICK GENERATING STATION
EXELON NUCLEAR CORP.

SCALE	DRAWN	IGDS	CHECKED	INSPECTED	APPROVED	DATE
NONE	BECHTEL	BECHTEL	BECHTEL	BECHTEL	BECH	BECH	01/31/90

APPROVED BECHTEL APPROVED

SHEET 1 OF 8031-M-56 REV 43

I CATEGORY A1

M-56 (SHT. 1)