

8031-M-40

34"
22"
17"
11"
8.5"
11"
17"
22"
34"

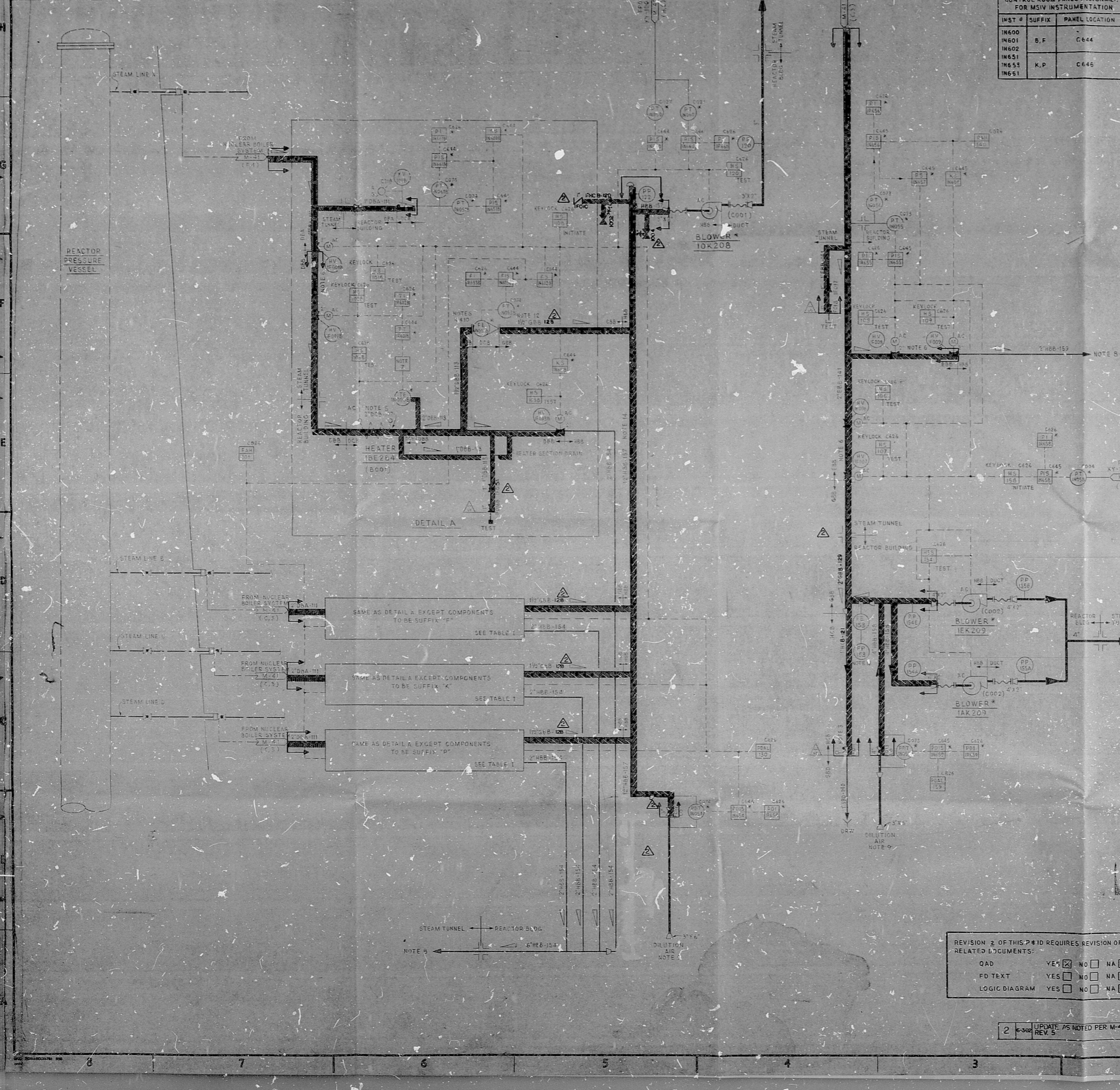


TABLE I
CONTROL ROOM PANEL ASSIGNMENT FOR MSIV INSTRUMENTATION

INST #	SUFFIX	PANEL LOCATION
IN600		
IN601	B, F	C644
IN602		
IN651		
IN653	K, P	C646
IN651		

REF NO	REFERENCE DRAWINGS	BECHTEL NO	GE NO
1	P.C.I.D. LEGEND	M-00	
2	NUCLEAR BOILER P.I.D.	M-41	761E250AD
3	NUCLEAR BOILER VEGETATION P.I.D.	M-42	761E250AD
4	MSIV-LEAKAGE CONTROL DES SPEC	MI-E32-1030-L-2	22A4E53
5	MSIV-LEAKAGE CONTROL FCO	MI-E32-1030-F	851E597N
6	MSIV-LEAKAGE CONTROL PD	MI-E32-1020-G-2	762E953
7	PROCESS INSTRUMENTATION	MI-A61-4070-L-2	22A3732
8	GE MSIV-LCS P.I.D.	MI-E32-1030-D-N	768E305
9	MSIV-LCS ELEMENTARY DIAGRAM	MI-E32-1050-E	851E708TR

- NOTES:**
- THIS IS A CLASS 1 SEISMIC SYSTEM EXCEPT AS NOTED.
 - THE GE MPL NUMBER FOR THE MSIV-LEAKAGE CONTROL SYS IS E 32.
 - THE CHECK VALVE SHALL BE INSTALLED IN A HORIZONTAL RUN WHICH IS AT LEAST 7 FEET BELOW THE LOW PRESSURE MANIFOLD OR PIPING LOW POINT TO PERMIT DRAINAGE WITH MANIFOLD OR PIPING AT SUB-ATMOSPHERIC PRESSURE.
 - USE SERVICE AIR HOSE CONNECTION ON EL 253' FOR SURVEILLANCE TESTING OF THE FLOW METERS.
 - ELECTRIC HEATER SHALL BE INSTALLED AT THE SYSTEM PIPING LOW POINT AFFIXED TO A 12.5' SECTION OF HORIZONTAL PROCESS PIPING TO INSURE THAT CONDENSATE SHALL BE EVENLY DISTRIBUTED ON THE HEATED LENGTH OF THE PIPE. PIPE SUPPORTS SHALL BE PROVIDED TO MINIMIZE BUCKLING DURING HEATER OPERATION. THE THERMOCOUPLE SHALL BE LOCATED AT THE OUTLET END UNDER THE PIPE INSULATION. THE THERMOCOUPLE SHALL BE NO FURTHER THAN 12 INCHES FROM THE HEATER ELEMENTS. THE UNINSULATED HEATER SECTION SHALL BE PROVIDED WITH THERMAL GUARDS FOR PERSONNEL PROTECTION.
 - THE TWO VALVES IN SERIES SHALL BE INSTALLED AS CLOSE AS POSSIBLE TO EACH OTHER AND BE LOCATED AS CLOSE AS PRACTICAL TO THE MAIN STEAM LINES.
 - A WATER TIGHT JUNCTION BOX SHALL BE PROVIDED FOR EACH THERMOCOUPLE AND SHALL BE INSTALLED 5 FEET OR LESS FROM THE THERMOCOUPLE.
 - DISCHARGE SHALL BE DIRECTED TO THE STEAM TUNNEL SERVED BY STANDBY GAS TREATMENT SYSTEM. BLOWDOWN LOCATION MUST MEET THE CRITERIA GIVEN IN REF. 4.
 - THE DILUTION AIR SHALL ORIGINATE FROM THE REACTOR BUILDING SERVED BY STANDBY GAS TREATMENT SYSTEM. THE AREA SHALL BE FREE OF PIPING WHICH COULD BE ASSUMED TO BREAK DURING A DBA AND RELEASE STEAM OR HOT LIQUID. THE PIPING ENTRANCE SHALL BE COVERED WITH A SCREEN.
 - FE-1006 SHALL BE LOCATED AT THE HIGH POINT OF A VERTICAL CONNECTION DOWN STREAM OF THE HEATER. THE VERTICAL RUN FROM HEATER TO FE-1006 SHALL BE MINIMIZED.
 - ALL LINES SHALL BE SLOPED 0.5 IN/FT MINIMUM.
 - THE MAXIMUM CABLE LENGTH FROM FE-1006 TO FT-1005 IS 40 FEET.
 - THE FLOW TEST METERING ORIFICE PLATE BETA RATIO SHALL BE 20.6
 - LOW PRESSURE MANIFOLD TO BE 10 FEET IN LENGTH AND CONTAIN INTERNAL DRAFTING TO ACCOMMODATE SUFFICIENT STEAM AND AIR MIXING.

POOR ORIGINAL

PIPING DESIGNATED BY IS ASME SECT. XI IWE, WC EXEMPT

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

THIS ISIT IS BASED UPON P.I.D. 8031-M-40 REV 5

PRO APERTURE CARD

REVISION 2 OF THIS P.I.D. REQUIRES REVISION OF THE FOLLOWING RELATED DOCUMENTS:

QAD	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 type="checkbox"/>	NO <input type="checkbox"/>	NA <input checked="" type="checkbox"/>

2 6-3-82 UPDATE AS NOTED PER M-40 REV 5

USE THIS DOCUMENT FOR INSERVICE INSTRUCTION ONLY BACKGROUNDS MAY NOT BE CORRECT

NO	DATE	BY	REASON
1	5/2/82		CLARIFY EXEMPTIONS.
2	6/2/82		INITIAL ISSUE SEE ABOVE

BECHTEL
SAN FRANCISCO

LIMERICK GENERATING STATION UNITS 1 & 2
PHILADELPHIA ELECTRIC COMPANY

ISI
MSIV-LEAKAGE CONTROL SYSTEM

NO	DATE	BY	REASON
1	6-3-82		UPDATE AS NOTED PER M-40 REV 5

8031 ISI-M-40 2
8210040852

34"
22"
17"
11"
8.5"
11"
17"
22"
34"

RIDS

8210040252

