



- NOTES:
- UNLESS OTHERWISE INDICATED ALL PRESSURE AND/OR FLOW INSTRUMENT ROOT LINES SHALL BE 3/4". ROOT VALVES SHALL BE 3/4"X25X3 EXCEPT AS NOTED. LINE UP TO AND INCLUDING ROOT VALVE SHALL BE FURNISHED AND INSTALLED UNDER CONTRACT E-69-4.
 - AT SAMPLING POINTS, CONNECTIONS, PROBES AND ROOT VALVES SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH CONTRACT PARA. 3.4.2 AND DWG. SP-07211 FIG. NUMBER AS NOTED. CONT. OF SAMPLE PIPING IS E-70-3.
 - ALL "BS-2" PIPING SHOWN HERE ON IS CLASS IIN NUCLEAR AND CLASS IVP POWER CLASSIFICATIONS WITHIN THE LIMITS SHOWN HEREON.
 - HIGH POINT VENTS AND LOW POINT DRAINS ARE NOT SHOWN.
 - "CP" INDICATES LOCATION OF CATHODIC PROTECTION LEADS TO BE INSTALLED IN ACCORDANCE WITH PARA. 1.4.14.2 CONTRACT E-69-4.
 - DELETED.
 - DELETED.
 - FOR ADDITIONAL INSTRUMENTATION INCLUDING ALARMS, TEMPERATURE AND VIBRATION INSTRUMENTATION ASSOCIATED W/HPCI TURBINE, SEE G.E. DWG. 729281 B.C., SH. 2.
 - REF. G.E. DWG. 11506011 SH. 2 FOR INSTR. PIPING AND VALVE INSTALLATION AT INSTRUMENT RACK 25-50, SEC. A.
 - REF. G.E. DWG. 11506011 SH. 3 FOR INSTRUMENT PIPING AND VALVE INSTALLATION AT INSTRUMENT RACK 25-50, SEC. B.
 - DESIGN PRESSURE FROM PCV-50 TO RO-133 & RO-134 IS 250 PSIG PER DC 89-023.
 - ROOT VALVE HPCI-V-58 IS CAPPED AT RACK 25-50, SEC. B.
 - INSTRUMENT, SAMPLE, TEST, DRAIN AND VENT LINES ARE NOT ALWAYS THE SAME CLASS AS THE MAIN LINE AND THESE BOUNDARIES ARE TOO NUMEROUS TO IDENTIFY IN THIS MANNER (SEE ISI PROGRAM BOUNDARY DESCRIPTIONS FOR DETAILS).
 - CB IS PRIMARY CONTAINMENT BOUNDARY.
 - ALL PIPING OPEN TO PENETRATION X-206A AND X-206B ON THIS DRAWING IS PART OF PRIMARY CONTAINMENT BOUNDARY.
 - WHERE LINES ARE INTERCONNECTED AND CONTINUED ON OTHER DRAWINGS, ZONE NUMBERS ARE APPROXIMATE ONLY.
 - RHR STEAM CONDENSING IS NO LONGER AN OPERATIONAL MODE.
 - TUBING INSTALLED FOR LEVEL SWITCH CALIBRATION. AUTHORIZED CONFIGURATION PER EO03-72.
 - INDICATIONS ARE ALSO AVAILABLE IN THE ASD ROOM. (REF: 791E271 SH 6)

REVISIONS TO THIS DRAWING
REQUIRES A REVISION TO THE
CORRESPONDING ISOKEY.

454003637

AS BUILT

NO.	DESCRIPTION	ORDER DFT	DATE	ENG
AB/74	DR-2014-0008	-	DR/23/14	LAENSE
AD/75	DR-2016-0001	-	DR/16/16	HONDECO
AD/76	DR-2017-0243	-	DR/02/17	HONDECO
AE/77	DR-2019-0367	-	DR/10/19	LAENSE

SIGNATURE	DATE	GROUP	1	2	3	4	5	6	7	8	9	10	11	12
DESIGNED BY														
CHECKED BY														
APPROVED BY														
FILED BY														

FLOW DIAGRAM - HIGH PRESSURE
COOLANT INJECTION AND
REACTOR FEED SYSTEMS
COOPER NUCLEAR STATION

BURNS & ROE

2044