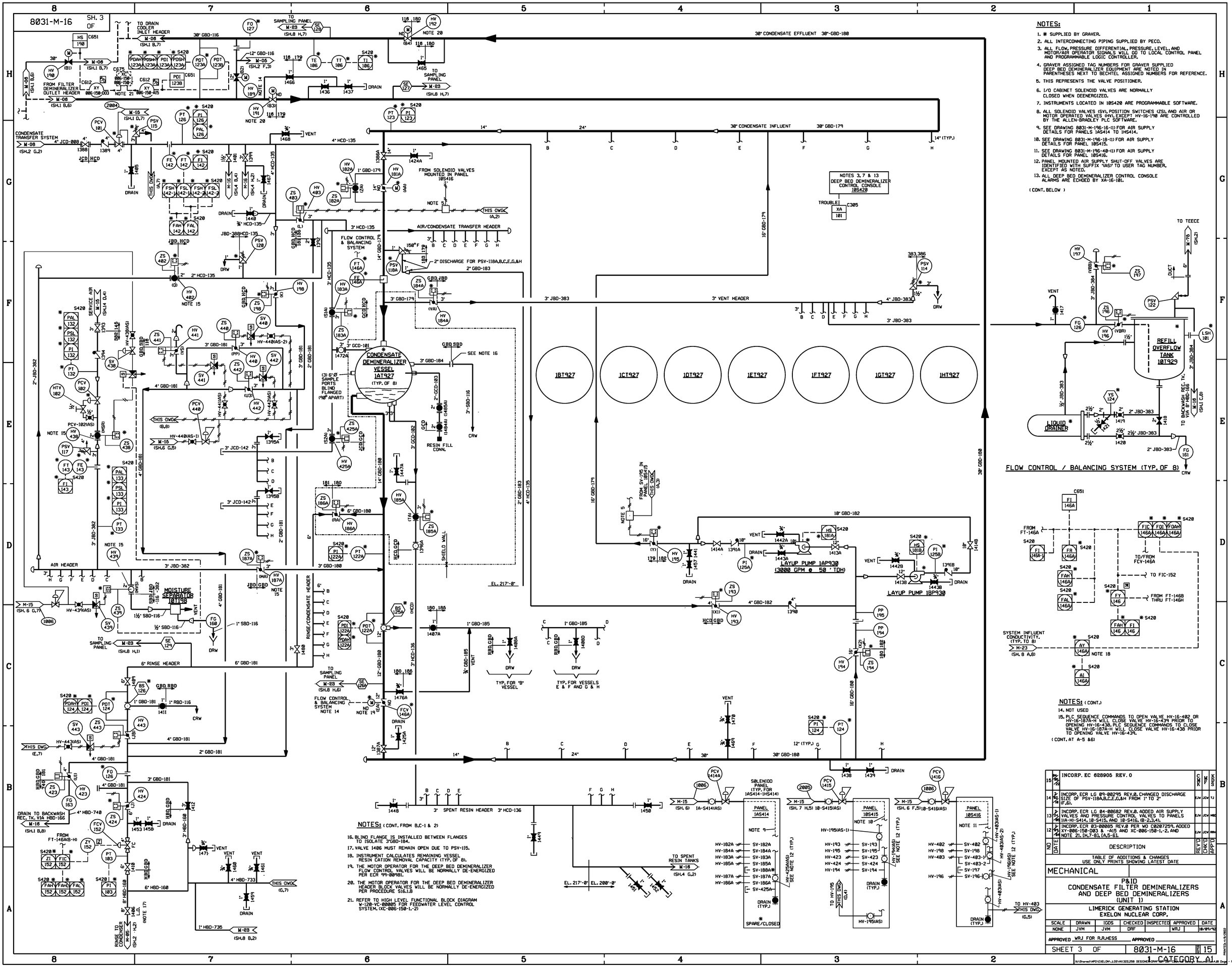

NOTES:

1. * SUPPLIED BY GRAVER.
2. ALL INTERCONNECTING PIPING SUPPLIED BY PECO.
3. ALL FLOW, PRESSURE DIFFERENTIAL, PRESSURE, LEVEL, AND MOTOR/AIR OPERATOR SIGNALS WILL GO TO LOCAL CONTROL PANEL AND PROGRAMMABLE LOGIC CONTROLLER.
4. GRAVER ASSIGNED TAG NUMBERS FOR GRAVER SUPPLIED DEEP BED DEMINERALIZER EQUIPMENT ARE NOTED IN PARENTHESES NEXT TO BECHTEL ASSIGNED NUMBERS FOR REFERENCE.
5. THIS REPRESENTS THE VALVE POSITIONER.
6. I/O CABINET SOLENOID VALVES ARE NORMALLY CLOSED WHEN DEENERGIZED.
7. INSTRUMENTS LOCATED IN 10S420 ARE PROGRAMMABLE SOFTWARE.
8. ALL SOLENOID VALVES (SV), POSITION SWITCHES (ZS), AND AIR OR MOTOR OPERATED VALVES (HV), EXCEPT HV-16-190 ARE CONTROLLED BY THE ALLEN-BRADLEY PLC SOFTWARE.
9. SEE DRAWING 8031-M-196-16-(1) FOR AIR SUPPLY DETAILS FOR PANELS 1AS414 TO 1HS414.
10. SEE DRAWING 8031-M-196-18-(1) FOR AIR SUPPLY DETAILS FOR PANEL 10S415.
11. SEE DRAWING 8031-M-196-40-(1) FOR AIR SUPPLY DETAILS FOR PANEL 10S416.
12. PANEL MOUNTED AIR SUPPLY SHUT-OFF VALVES ARE IDENTIFIED WITH SUFFIX "(AS)" TO USER TAG NUMBER, EXCEPT AS NOTED.
13. ALL DEEP BED DEMINERALIZER CONTROL CONSOLE ALARMS ARE ECHOED BY XA-16-101.

(CONT. BELOW)

NOTES: (CONT.)

14. NOT USED
15. PLC SEQUENCE COMMANDS TO OPEN VALVE HV-16-402 OR HV-16-187A-H WILL CLOSE VALVE HV-16-439 PRIOR TO OPENING HV-16-438. PLC SEQUENCE COMMANDS TO CLOSE VALVE HV-16-187A-H WILL CLOSE VALVE HV-16-438 PRIOR TO OPENING VALVE HV-16-439.

(CONT. AT A-5 &6)

NOTES: (CONT. FROM B,C-1 & 2)

16. BLIND FLANGE IS INSTALLED BETWEEN FLANGES TO ISOLATE 3"GBD-184.
17. VALVE 1406 MUST REMAIN OPEN DUE TO PSV-115.
18. INSTRUMENT CALCULATES REMAINING VESSEL RESIN CATION REMOVAL CAPACITY (TYP. OF 8).
19. THE MOTOR OPERATOR FOR THE DEEP BED DEMINERALIZER FLOW CONTROL VALVES WILL BE NORMALLY DE-ENERGIZED PER ECR 99-00981.
20. THE MOTOR OPERATOR FOR THE DEEP BED DEMINERALIZER HEADER BLOCK VALVES WILL BE NORMALLY DE-ENERGIZED PER PROCEDURE S16.1.B
21. REFER TO HIGH LEVEL FUNCTIONAL BLOCK DIAGRAM W-120-VC-00005 FOR FEEDWATER LEVEL CONTROL SYSTEM. (XC-006-150-1,-2)

NO	DATE	DESCRIPTION	REV'D	CHK'D	APP'D
15	2/2/92	INCORP. EC 628905 REV. 0			
14	3/26/91	INCORP. ECR LG 89-00295 REV.0. CHANGED DISCHARGE SIZE OF PSV-118A,B,C,E,G,&H FROM 1" TO 2" (F,5).	EJV	JCV	TJ
13	3/26/91	INCORP. ECR LG 84-00682 REV.0. ADDED AIR SUPPLY VALVES AND PRESSURE CONTROL VALVES TO PANELS 1A-HV-5414, 1B-5415, AND 1G-5416. (B-2,3,4).	EJV	JCV	MBC
12	3/26/91	INCORP. ECR 03-00085 REV.0 PER WO C0207259. ADDED XY-006-150-003 & -A15 AND XC-006-150-1,-2, AND NOTE 21. (H,7-8), (A,5-6).	EJV	JCV	RRH

TABLE OF ADDITIONS & CHANGES
USE ONLY PRINTS SHOWING LATEST DATE

MECHANICAL

P&ID
CONDENSATE FILTER DEMINERALIZERS
AND DEEP BED DEMINERALIZERS
(UNIT 1)

LIMERICK GENERATING STATION
EXELON NUCLEAR CORP.

SCALE	DRAWN	IGDS	CHECKED	INSPECTED	APPROVED	DATE
NONE	JVM	JVM	DRF		WRJ	10/01/92

APPROVED WRJ FOR R.R.HESS APPROVED

SHEET 3 OF 8031-M-16 REV. 15

CATEGORY A1

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