



NOTES:

1. ALL INSTRUMENTS ON THIS DRAWING TO BE IDENTIFIED BY PREFIX "C" OR "SA" AS APPLICABLE, UNLESS SPECIFICALLY NOTED OTHERWISE.
2. ALL EPNS' LOCATED WITHIN SKID OUTLINE OR THOSE ITEMS MARKED "MARKED ★" ARE ASSOCIATED EQUIPMENT.
3. ALL INSTRUMENT ROOT VALVES NOT LABELED WILL BE 3/4" GLOBE VALVES UNLESS SPECIFICALLY NOTED OTHERWISE.
4. ALL PIPING, VALVES AND ASSOCIATED COMPONENTS ON THIS DRAWING ARE CLASSIFIED AS FOLLOWS EXCEPT IN THE REACTOR, CONTROL AND DIESEL GENERATOR BUILDINGS:
  - QUALITY CLASS II
  - SEISMIC CATEGORY II
  - CODE GROUP D
5. ALL PIPING, VALVES AND ASSOCIATED COMPONENTS ON THIS DRAWING IN THE CONTROL AND SERVICE AIR SYSTEM IN THE REACTOR, CONTROL AND DIESEL GENERATOR BUILDINGS SHALL BE CLASSIFIED AS FOLLOWS (BREW POINTS ARE INDICATED ON THE FLOW DIAGRAM):
  - a - ALL PIPING EXCEPT AS NOTED IN b, c AND d BELOW:
    - QUALITY CLASS II
    - SEISMIC CATEGORY II ⊕
    - CODE GROUP D
  - ⊕ HANGERS TO BE DESIGNED TO SEISMIC CATEGORY I LOADS.
6. b - CAS (5) DOWNSTREAM OF AND INCLUDING THE LAST SYSTEM ISOLATION VALVE (AS SHOWN IN DETAIL B ON MS10-2A ZONE H-K(7-9))
  - QUALITY CLASS I
  - SEISMIC CATEGORY I
  - CODE GROUP C
7. c - CAS (5) DOWNSTREAM OF THE OUTER CONTAINMENT ISOLATION VALVE (AS SHOWN ON MS10-2 ZONE H(1)):
  - QUALITY CLASS I
  - SEISMIC CATEGORY I
  - CODE GROUP B
8. d - SA(1) 1-1 DOWNSTREAM OF AND INCLUDING THE LAST CONTAINMENT ISOLATION VALVE (AS SHOWN ON MS10-3 ZONE H(7)):
  - QUALITY CLASS I
  - SEISMIC CATEGORY I
  - CODE GROUP B
9. THESE COMPUTER PLOTS ARE NOT USED.
10. (DELETED)

**LEGEND:**

1. ALL VALVES SUFFIXED WITH A (V) DENOTE A 3/4" VENT VALVE.
2. ALL VALVES SUFFIXED WITH A (D) DENOTE A 3/4" DRAIN VALVE
3. ALL VALVES SUFFIXED WITH A (TH) DENOTE A THROTTLED VALVE.

FSAR FIG.

															 <b>ENERGY NORTHWEST</b> People • Vision • Solutions			COLUMBIA GENERATING STATION																								
REV	DATE	DESCRIPTION					DWN	CHK	APVD	REV	DATE	DESCRIPTION					DWN	CHK	APVD	SIGNATURE		DATE		TITLE																		
77	02-10-05	REV PER 03436-200 (C-E/2-4, 5-7, 9-11).					DC	HL	SRP	73	8-13-93	REV PER 55-2427-0A-300 (H/11), 55-2427-0A-301 (H/7).					HL	KL	JFB			J.F. BROWER	7-24-92	DESIGN																		
A										74	12-3-93	REV PER 55-2930-0A-300 (E/4,7), 55-2930-0A-301 (E/11).					HL	PAA	JCM	70	7-24-92					FLOW DIAGRAM																
										75	12-10-93	REV PER 55-2887-0A-300 (J/1).					HL	PAA	JFB	71	8-21-92					CONTROL AND SERVICE																
										76	03-25-94	REV PER 94-03-084-0002 (A-F/1-11,H-K/5-10).						PAA	KL	DG	72	10-02-92					AIR SYSTEM															
															REVISED AND REDRAWN PER 89-0266-OC-255, 89-0266-OC-A42, 89-0266-OC-A43, 89-0266-OC-A50, 89-0266-OC-B09, 89-0266-OC-B10, 89-0266-OC-B11, 89-0266-OC-B18, 89-0266-OC-B19, 89-0266-OC-B20, 89-0266-OC-B21, 89-0266-OC-C02, 89-0266-OC-C03, 89-0266-OC-C19 AND 55-2348-0A-200.															RC	PAA	JFB	CHECKED		P.A. ANDERSON	7-24-92	DRAWN		R.B. CLEAVINGER	7-24-92		
															REV PER 55-1800-0A-301 (G/1-2).															KL	RC	BDN	SCALE		N.T.S.		DWG NO.		M510-1	REV.		77
															REV PER 55-1586-0B-301 (C/3,6,10,K/3).															PAA	RC	TWM										

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