



- NOTES
1. TWO INSTRUMENT SENSE LINES, ONE EACH FOR TOTAL AND STATIC PRESSURE, ACTUALLY EXIST BETWEEN FE-17501 AND FE-17502. ONLY ONE IS SHOWN. SEE V.P. 8856-247C-3 FOR DETAILS.
 2. INSTR. VALVE AS ON THIS P&ID ARE 1" 304L SS. VALVE NUMBER USED IS 8856-247C-3. VALVE NOT USED IS 8856-247C-3. VALVE NUMBER USED IS 8856-247C-3.
 3. 40-18500A, ETC. ARE VARIABLE RESTRICTING ORIFICES.
 4. PIPES WORK THIS P&ID EXCEPT FOR THE PANELS. SHALL BE 3" DIA. A182C STEEL 304L WITH A 1/2" DIA. ED. UNLESS OTHERWISE SPECIFIED. ALL SETTINGS SHALL BE WELDED TO AVOID SHOCK NOTICES.

REFERENCE DINGS

BECHTEL NO.	PL. NO.
M-174	E-10813
M-175	E-10814
M-176	E-10815
M-177	E-10816
M-178	E-10817

TABLE 1

SUBSYSTEM	UNIT 1 TURBINE BLDG.	UNIT 2 TURBINE BLDG.	UNIT 3 TURBINE BLDG.	UNITS
AIR FLOW PANEL	IC159A	IC159B	IC159C	CC539A
IRADIATION MEAS. PANEL	IC159A	IC159B	IC159C	CC539B
CAPACITY TANK	17170	17170	17170	01570
VACUUM PUMP	17160	17160	17160	01560
TYPICAL INSTR. NO.	18200A	18200B	18200C	00502
	18200D	18200E	18200F	00501

- NOTES (CON'T)
5. 1/2" AIR SAMPLE PORTS 5/16" HOSE BARBS
 6. 1" SWABLOCK UNION USED AT THIS POINT
 7. USE ASTM A 376 GR TP-304 OR 304L SEAMLESS PIPE 1/2" DIA. WITH A 1/2" GR-304 THREADED OR SOCKET WELDED FITTINGS. THREADED CONNECTIONS ARE TO BE USED AT THE BALL VALVES, AT THE CONNECTIONS FOR THE INSTRUMENT AIR.
 8. ALL FLANGES SHOWN ARE TO BE WELDED TYPE PER V.P. 8856-1-21C 10-2 OR EQUAL.

P&ID APERTURE CARD

UNCONTROLLED DOCUMENT FOR REFERENCE ONLY

REV.	DATE	DESCRIPTION	BY	CHKD.
1	11/14/85	ISSUED FOR CONSTRUCTION	...	...
2	11/14/85	REVISED PER CHANGE LIST # 100 M...	...	...
3	11/14/85	REVISED PER CHANGE LIST # 100 M...	...	...
4	11/14/85	REVISED PER CHANGE LIST # 100 M...	...	...
5	11/14/85	REVISED PER CHANGE LIST # 100 M...	...	...
6	11/14/85	REVISED PER CHANGE LIST # 100 M...	...	...
7	11/14/85	REVISED PER CHANGE LIST # 100 M...	...	...
8	11/14/85	REVISED PER CHANGE LIST # 100 M...	...	...
9	11/14/85	REVISED PER CHANGE LIST # 100 M...	...	...
10	11/14/85	REVISED PER CHANGE LIST # 100 M...	...	...

PENNSYLVANIA POWER & LIGHT COMPANY
 ALTOONA STEAM ELECTRIC STATION - UNIT 2
 BECHTEL - SAN FRANCISCO
P & ID - COMMON BUILDING VENT STACK MONITORING SYSTEM
 JOB NO. 8856 DRAWING NO. M-165 P.L.V. 5
 E-177054

66 77

66 58

8.5"

11"

17"

66 77

66 58

8.5"

11"

17"

RIDS

8305250418

