CONDENSER A
CONDENSER B
CONDENSER C
14" Vacuum breaker
Typ for six places
OFF GAS PRECOOLER
Cooling water supply Cont on 47W844
Condensate drain
Loop seal
Vacuum breaker
SEPARATOR
CONDENSER VACUUM PUMPS
Rated cap. 1850 cfm @ 7in Hg abs
1A
1B
EXHAUSTERS
CONDENSER
STEAM PACKING EXHAUSTER
Condensate supply conton 47W844-1
Leak off from steam system cont on GE dwg. 735E780
3" drain cont on 47W805-3
1" LP Sample return
24" (Hold up time 1.75 min)
4" drain
1" drain cont on dwg. 47W830-1
RV set to relieve @ 50 psig
SJAE 1A
SJAE 1B
4" drain cont on 47W805-3
STEAM JET AIR EJECTORS
Rated cap 1682 Lb per hr. @ 0.9 in Hg abs
Purge air and snorting conn.
Blind flg
Dehumidification coil
Drain
Cont on 47W855-1
54" (Hold up time 30 min)
Rad. monitoring Sampling valve, cont on 47W510-90
1" Sample pump return
Cont on 47W844-1 Raw cooling water
Water Chiller
Expansion tank
Chemical Treatment Tank
CHILLED WATER CIRCULATING PUMP 55 gpm @ 31 ft of head
Manual balancing valve
Air separator
DW make-up cont on 47W556-1
Strainer blowdown
Note: Water chiller and chilled water circulating pumps same for Unit 2.
TURBINE BLDG
YARD
Blanking flgs
OFF GAS STACK
Dilution chamber
EL 599.5
DILUTION FANS UNIT 1
DILUTION FANS UNIT 2
DILUTION FANS UNIT 3
DOP Sample & test return
DOP test
DOP Sample DOP injection
Purge air to filters
Universal hose conn
3 typical
FILTER 1A
FILTER 1B
Annulus drain to stack sump
Filter vessel drain to stack sump
EL 556.0

SYSTEM PRESS-TEMP DATA		
LINE MARK NO	DESIGN PRESSURE psig	DESIGN TEMP °F
1	50	60
2	350	250
3	350	150
4	-15 to +50	101
5	160	150
6	115	213
7	20	200
8	350	650

1. [1] etc. denotes design pressure and temperature as given in table this drawing.
2. Hydrostatic testing shall be in accordance with the applicable code.
3. The design pressure and temperature of all drain and vent lines through the last isolation valve shall be the same as the process line.
4. This diagram for Unit 1 only prior to completion of the Off Gas Treatment Building Recbair System. See 47W850-2 for Units 1 2 & 3 Recbair System.
5. All valves are same size as piping, unless otherwise noted.
6. All pressure and test connections are ¾", unless otherwise noted.
7. All valves shall be tagged. The valve number shall be prefixed with the unit number and system number ie 1-66-501, 2-66-501 or 3-66-501.
8. For symbols and reference drawings, see 47W801-1.
9. All vents and drains shown ——→ indicates closed system (CRW) vents and drains shown ——▽ indicates open system (CRW).

REFERENCE DRAWINGS:
47A366-66-1 _____ TABULATION OF VALVE MARKER TAGS

DRAWING DEPICTS UNIT 1 BEFORE ADDITION OF RECBAIR SYSTEM

THIS DRAWING APPEARS IN THE FSAR. ALL REVISIONS MUST BE SIGNED OUT THROUGH THE WEB NUCLEAR LICENSING SECTION.

COMPANION DRAWINGS 47W800 SERIES

FIRST NO USED 501
OPEN NOS 512 513 514 531 532 533 552 thru 800
LAST NO USED 551

TI APERTURE CARD

POWERHOUSE UNIT 1

FLOW DIAGRAM OFF GAS SYSTEM

BROWNS FERRY NUCLEAR PLANT
TENNESSEE VALLEY AUTHORITY
DIVISION OF ENGINEERING DESIGN

SUBMITTED	CONCURRED	APPROVED

KNOXVILLE | 9-9-68 | 67 | M | 4 | 47W809-1R3

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