



- NOTES:
- SEE SHEET 1 FOR GENERAL NOTES.
  - LINE SIZES OFF HEADER ARE 1/2" UNLESS NOTED.
  - 
  - ROUTE 1" SS PIPE TO BOTTOM OF PRESSURIZER.
  - THIS VALVE WILL BE USED FOR HDR BLOWDOWN.
  - CONTROL BLDG RADIATION FILTER TO BE INSTALLED & SUPPORTED USING REQUIREMENTS OF TVA SAFETY CLASS C. VENDOR WILL BUILD FILTER TO ASME SECTION VIII REQUIREMENTS (TVA CLASS G). REFER TO 1-47848-1 NOTE 13 FOR VCSH DEFINITION.
  - ALL PIPING IS CLASS C. THIS CLASSIFICATION EXTENDS UP TO AND INCLUDING THE FEATURE ISOLATION VALVE PIPING AND TUBING DOWNSTREAM OF THE FEATURE ISOLATION VALVE IS CLASSIFIED AS INSTRUMENT. SEE ENGINEERING REQUIREMENTS SPECIFICATION (ERS) NSE-814 FOR INSTALLATION AND INSPECTION REQUIREMENTS.
  - FILTER IS VENDOR SUPPLIED UNDER REQ NO. 831283.
  - 1 1/2" AND 1 1/2" DENOTE SAFETY RELATED AND NON-SAFETY RELATED UNIT 1/2" INTERFACE POINTS. SAFETY RELATED INTERFACE POINTS WILL BE LOCKED CLOSED OR CLOSED WITH THE METHOD OF ACTUATION REMOVED OR DISABLED. NON-SAFETY RELATED INTERFACE POINTS WILL BE LOCKED CLOSED OR CLOSED WITH HANDWHEELS REMOVED.
  - ABSCE DENOTES ITEM AND ASSOCIATED COMPONENTS ARE REQUIRED TO REMAIN IN DESIGN CONFIGURATION AS SHOWN TO PROTECT THE ABSCE PRESSURE BOUNDARY. ALL REQUIRED COMPONENTS, INCLUDING SUPPORTS REQUIRED FOR SEISMIC QUALIFICATION, ARE LABELED IN THE FIELD. ABSCE PRESSURE BOUNDARY CONFIGURATIONS MAY INCLUDE COMPONENTS ON THE ANNULUS AND AUXILIARY BUILDING SIDE OF THE SHIELD WALL. THE SUPPORTS REQUIRED TO MAINTAIN ABSCE BOUNDARY SEISMIC QUALIFICATION ARE IDENTIFIED ON DCAs 52283-268 & -269.
  - LABELING IS NOT APPLICABLE TO SUPPORTS AND AIR SUPPLY LINE FROM MANUAL ISOLATION VALVE TO HOST FCV.

- REFERENCE DRAWINGS:
- 47860-210, 211, 216, 217, 218, 219-----PHYSICAL PIPING REACTOR BLDG
  - 47860-203-----PHYSICAL PIPING AUX BLDG EL 737'
  - 47860-204-----PHYSICAL PIPING AUX BLDG EL 757'
  - 47860-207-----PHYSICAL PIPING AUX BLDG
  - 47848-110-----MECHANICAL STRESS ANALYSIS PROBLEM BOUNDARY CONTROL AIR
- THIS CONFIGURATION CONTROL DRAWING SUPERSEDES UNIT 1 AS-CONSTRUCTED DRAWING 47848-10 REVISION 5.

|  |            |          |         |          |         |
|--|------------|----------|---------|----------|---------|
| 22   | 52283      | ESJ/GJB  | JEW     | JED      | 3-10-09 |
| REVISED PER DCA 52283-22-2. DELETED SYSTEM BOUNDARY PER ADMIN. |            |          |         |          |         |
| REV  | CHANGE REF | PREPARED | CHECKER | APPROVED | DATE    |
| SCALE: NTS EXCEPT AS NOTED                                     |            |          |         |          |         |

PROJECT FACILITY  
POWERHOUSE  
UNITS 1 & 2  
TITLE  
**MECHANICAL  
FLOW DIAGRAM  
CONTROL AIR**

1 WATTS BAR NUCLEAR PLANT TENNESSEE VALLEY AUTHORITY Q

|                |             |                                   |                      |
|----------------|-------------|-----------------------------------|----------------------|
| DESIGN         |             | INITIAL ISSUE                     | ENGINEERING APPROVAL |
| DRAFTER        | CHECKER     | RO ISSUE PER                      | 1 H.R. PERSINGER     |
| G.J. BARNFIELD | M.P. TERMON | WBEP 5.17 & RIMS B26 '90 0109 376 | 2 H.R. PERSINGER     |
| DESIGNER       | REVIEWER    |                                   | 3 L.W. BOYD          |
| M.L. CHAPMAN   | J.F. LUND   |                                   |                      |

|                         |         |       |             |     |
|-------------------------|---------|-------|-------------|-----|
| ISSUED BY:              | DATE    | SCALE | PROJECT NO. | REV |
| J. EDWARD GIBBS FOR PRM | 1-26-90 | 85 M  | 1-47848-10  | R22 |