



| VALVE IDENTIFICATION | MARK NUMBER | PIPE SIZE | QUANTITY | VALVE IDENTIFICATION | MARK NUMBER | PIPE SIZE | QUANTITY |
|----------------------|-------------|-----------|----------|----------------------|-------------|-----------|----------|
| V900 | V5505-04 | 3" | 1 | V1970-21 | V5510-A-2 | 1" | 18 |
| | | | | V7071 | V5500-R-4 | 1" | 2 |

NOTES CONT'D
 47 PART LENGTH CONTROL ROD DRIVE MECHANISM CONN IS FURNISHED BY WESTINGHOUSE AS THE CONN TO THE REACTOR VESSEL.
 48 CONN TO THE REACTOR VESSEL IS LOCATED OFF OF THE INCORE INSTRUMENTATION SEAL TABLE.
 49 CONTAINMENT ISOLATION IS PROVIDED BY A SENSOR, A FILLED SYSTEM AND A HYDRAULIC ISOLATOR IN SERIES. FOR FURTHER INFORMATION SEE SAW DRAWINGS 12241-RM-25 SERIES.

- 29" INSIDE DIAMETER
- 27" INSIDE DIAMETER
- SPRIG PIECE TO BE INSTALLED ONLY DURING REFUELING TO MAKE CONNECTION TO SIGHT GLASS USED FOR MONITORING REACTOR COOLANT LEVEL.
- SPRAY LINE SCOOP
- 1/2" & 1/4" TO BE USED DURING REFUELING OPERATION ONLY ACCESS FOR INSPECTION OF REACTOR COOLANT PIPE TO REACTOR VESSEL NOZZLE WELDS TO BE PROVIDED
- 0.25" HOLE THROUGH VALVE PLUG
- LOCATE BELOW ELEVATION OF REACTOR VESSEL FLANGE
- LOCAL COLLECTION POINT FOR DETERMINING LEAKAGE RATE
- LOCATE CONNECTION 45° BELOW HORIZONTAL CENTERLINE
- HOT LEG BYPASS LINE COOPS - ALL LOCATED IN SAME CROSSSECTIONAL PLANE (SEE DETAIL B, RM-750)
- RTD MOUNTED IN RTD IS SUPPLIED AS A MOUNTED INHORNFIELD APPROX 20 INCHES LONG BY WESTINGHOUSE
- LOCATE VALVES APPROX 18 INCHES FROM INHORNFIELD TO HELD INSPECTION REQUIREMENTS OF SPACE LIMITATIONS
- LOCATE CONNECTION ON UPPER 100% OF PIPE CIRCUMFERENCE
- LOCATE WELDS ABOVE CENTERLINE ELEVATION OF REACTOR VESSEL NOZZLES
- TOTAL LENGTH OF HOT LEG 2' SECT UPSTREAM OF RTD INHORNFIELD (A) TO (D) TO BE APPROX 4'-0" DUE TO HELD INSPECTION REQ & SPACE LIMITATIONS ALL BYPASS LOOP PIPING & RTD MANIFOLD REQUIREMENTS OF SPACE LIMITATIONS
- TOTAL LENGTH OF COLD LEG 2' 8" TO BE APPROXIMATELY 8'-0" DUE TO HELD INSPECTION REQUIREMENTS & SPACE LIMITATIONS
- RTD INSTALLED IN WELL
- PARALLEL PIPE PATHS SHOULD BE OF APPROX EQUAL EQUIV LENGTHS. FLOW LENGTH OF EACH 1" PIPING SECTION SHOULD BE APPROXIMATELY 6 FEET (12'-0" MAXIMUM).
- TEST COIL FOR LOOP STOP VALVE ANALYSIS.
- REFER TO WESTINGHOUSE WFR PRINTS FOR ALL INSTRUMENTATION CONNECTIONS
- THE CONTROL EQUIPMENT MARK NUMBERS SHALL INCLUDE A PREFIX WHICH IS IDENTICAL TO THE SYSTEM CODE PREFIX FOR THE ASSOCIATED EQUIPMENT ON PIPE LINE UNLESS OTHERWISE NOTED. EXAMPLE: 2RCS-TE01
- WESTINGHOUSE CONTROL EQUIPMENT IDENTIFICATION NUMBERS ARE SHOWN IN SQUARES ADJACENT TO BULLHEADED MARK NUMBERS WHERE THESE ARE DIFFERENT.
- 1/2" FLOW RESTRICTION REQ'D PER 2-205-100.
- 1/2" THERMAL SLEEVE
- 1/2" SPARE RTD CONNS (PLUGGED)
- WESTINGHOUSE VALVE NUMBERING SYS: VALVE SIZE VALVE TYPE (AS SPECIFIED IN VALVE TAG GUIDE)

REFERENCE DRAWINGS:
 RM-98A SAMPLE PIPING
 RM-98A NUCLEAR EQUIP VENT & DRAIN PIPING
 RM-710 CHASING & VCL CONTROL PIPING
 RM-810 SAFETY INJECTION PIPING
 RM-810 REACTOR COOLANT PIPING
 RM-750 RESIDUAL HEAT REMOVAL PIPING
 RM-750 NOTES CONT'D
 35 HEAD GASKET MONITORING CORRECTORS FURNISHED WITH REACTOR VESSEL.
 36 VENT PIPE FURNISHED WITH REACTOR VESSEL HEAD.
 37 PIPE CLASSES 2500 AND 2500R ARE SUPPLIED BY WESTINGHOUSE.
 38 SAFETY INJECTION PIPING AND INSTRUMENT RTD CONNECTIONS SHALL BE THE SAME AS THE PIPE TO WHICH THEY ARE CONNECTED UNLESS OTHERWISE NOTED.
 39 NOZZLE OFF REACTOR COOLANT LOOP IS SCHEDULE 160 SCHEDULE 160 PIPE SHOULD BE HELD END PREPARED TO MATCH NOZZLE.
 40 ALL CLASS I PIPING FROM 1/2" TO 2" DIAMETER TO BE BUTT-WELDED EXCEPT AT CONNECTIONS TO SUPPLIED EQUIPMENT.
 41 FOR FLOW DIAGRAM OF VSDLO PIPING FROM VALVES, SEE RM-89A.
 42 W DENOTES SAFETY RELATED ITEMS.
 43 SYSTEM SHALL BE MAINTAINED TO A CLEANNESS LEVEL 519 ACCORDANCE WITH 2-BVM-62
 44 FLANGES & VALVES PROVIDED WITH LOOP STOP VALVE ASSEMBLY
 45 METHOD OF CLOSURE FOR LOCAL VENTS, DRAINS, TEST CONNECTIONS CHEMICAL CLEANING CONNECTIONS SHALL BE AS SHOWN IN FIG. 1 TO 2-BVM-2100 FOR FULL DETAILS

| NO. | DATE | BY | CHKD. | APP. | DESCRIPTION |
|-----|----------|------|-------|------|-----------------------|
| 1 | 10/24/74 | J.M. | J.M. | J.M. | ISSUED FOR PRODUCTION |
| 2 | 11/15/74 | J.M. | J.M. | J.M. | ISSUED FOR PRODUCTION |
| 3 | 12/10/74 | J.M. | J.M. | J.M. | ISSUED FOR PRODUCTION |
| 4 | 1/10/75 | J.M. | J.M. | J.M. | ISSUED FOR PRODUCTION |
| 5 | 2/10/75 | J.M. | J.M. | J.M. | ISSUED FOR PRODUCTION |
| 6 | 3/10/75 | J.M. | J.M. | J.M. | ISSUED FOR PRODUCTION |
| 7 | 4/10/75 | J.M. | J.M. | J.M. | ISSUED FOR PRODUCTION |
| 8 | 5/10/75 | J.M. | J.M. | J.M. | ISSUED FOR PRODUCTION |
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| 10 | 7/10/75 | J.M. | J.M. | J.M. | ISSUED FOR PRODUCTION |
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| 13 | 10/10/75 | J.M. | J.M. | J.M. | ISSUED FOR PRODUCTION |
| 14 | 11/10/75 | J.M. | J.M. | J.M. | ISSUED FOR PRODUCTION |
| 15 | 12/10/75 | J.M. | J.M. | J.M. | ISSUED FOR PRODUCTION |
| 16 | 1/10/76 | J.M. | J.M. | J.M. | ISSUED FOR PRODUCTION |
| 17 | 2/10/76 | J.M. | J.M. | J.M. | ISSUED FOR PRODUCTION |
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| 99 | 12/10/82 | J.M. | J.M. | J.M. | ISSUED FOR PRODUCTION |
| 100 | 1/10/83 | J.M. | J.M. | J.M. | ISSUED FOR PRODUCTION |

DUQUESNE LIGHT COMPANY
 ENGINEERING & CONSTRUCTION PITTSBURGH, PA.
 REACTOR COOLANT PIPING - SHEET 1
 BEAVER VALLEY POWER STATION UNIT NO.2
 D.P.E. No. 10080
 C.L. No. 6259
 AA No. 10080-RM-75A
 S&W DWG. NO. 12241-RM-75A-13B

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PDR RIDS

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