REACTOR BUILDING

RADWASTE BUILDING

DIESEL GENERATOR BLDG

RADWASTE/DG CORRIDOR

FOR FIRE PROTECTION SYSTEM WITHIN RADWASTE/DG CORRIDOR SEE DETAIL B (E/4)

CORRIDOR

DETAIL C

HOSE STATION DETAIL (TYPICAL UNLESS OTHERWISE NOTED) (FOR FP-HS-C02/1 SEE M515-3 ZONE J/7)

HOSE STATION MATERIAL SPEC

- (A) 300 LB CAST BRASS ANGLE HOSE VALVE ROUGH BRASS FEMALE X MALE (HOSE THREAD) ALLENCO #171U OR EQUAL.
- (B) 2½" X 1½" X 1½" LEADER LINE WYE AKRON BRASS #2581 OR EQUAL
- (C) HOSE CABINET ALLENCO CRL #478 OR EQUAL
- (D) BALL SHUTOFF VALVE IS INTEGRAL TO SPRAY NOZZLE
- (E) 1 1/2" INLET, PROTEK MODEL #379, ELECTRICAL FOG NOZZLE, WITH MULTI-FLOW SETTINGS OF 30–60–95–125 GPM, ADJUSTED TO 60 GPM MAXIMUM IN SAFETY-RELATED AREAS FOR FLOOD CONTROL.
- (F) 1½" RUBBER LINED HOSE UL–FM APPROVED

HOSE STATION NOTES

- G. THE HOSE STATION CABINETS SHALL BE PAINTED RED AND SHALL BE INSCRIBED "FIRE HOSE" WITH 2" HIGH WHITE LETTERS.
- H. EACH HOSE CABINET SHALL BE LOCATED NEAR THE HOSE VALVE AND SHALL NOT INTERFERE WITH THE OPERATION OR MAINTENANCE OF THE VALVE. THE EXACT LOCATION OF THE HOSE CABINET SHALL BE DETERMINED BY THE CONTRACTOR.
- I. THE HOSE CABINET DOOR SHALL SWING AWAY FROM THE HOSE VALVE AND SHALL NOT INTERFERE WITH FOOT TRAFFIC OR THE OPERATION OF THE HOSE.
- J. THE HOSE CABINET FRAME SHALL BE NOTCHED TO ALLOW THE HOSE TO BE PRE CONNECTED TO THE STANDPIPE HOSE VALVE. THE NOTCH SHALL HAVE SMOOTH EDGES AND ITS LOCATION TO BE DETERMINED BY FIELD.

NOTES

1. ALL ITEMS MARKED * ARE FURNISHED WITH ASSOCIATED EQUIPMENT.
2. ALL PIPING, VALVES AND ASSOCIATED EQUIPMENT ON THIS DWG. SHALL BE CLASSIFIED AS FOLLOWS:
   QUALITY CLASS: II
   SEISMIC CATEGORY: II
   CODE GROUP: D
   EXCEPT: SUPPORTS FOR PIPING, VALVES AND ASSOCIATED EQUIPMENT IN 1) REACTOR BLDG, 2) DIESEL GEN. BLDG., CORRIDOR 3) CABLE SPREADING ROOM, CABLE CHASE, AND 4) 1" FP(40)–1 TO WWA–DV–54A & B (ZONE G–9)
   CONTROL ROOM WILL BE:
   QUALITY CLASS: I
   SEISMIC CATEGORY: I
   CODE GROUP: D, NFPA & UL
3. FOR SECTIONS OF PIPE IN THE CIRCULATING WATER PUMP HOUSE NOT FURNISHED AND INSTALLED BY CONTRACT 215, SEE DWG M658 AND M659.
4. THE PRIMARY FIRE & JOCKEY PUMPS ARE MOUNTED IN THE CIRC WATER PUMP HOUSE & TAKE SUCTION FROM THE CW PUMP HOUSE INTAKE BASIN.
5. ALL HOSE STATION ANGLE VALVES ARE 2½". THE HOSE STATION NUMBER IS DERIVED FROM THE VALVE E.G., VALVE FP–V–HS/R822 IS AT STATION FP–HS–RB22.
6. ALL INSTRUMENT ROOT VALVES NOT LABELED WILL BE ¾" GLOBE VALVES UNLESS SPECIFICALLY NOTED OTHERWISE.
7. CONTROL ROOM SPRINKLER HEADS ARE SAFETY RELATED COMPONENTS. SEE ISO'S FP–6000–1 AND FP–6001–1 FOR QUALIFIED MFGR/MODEL.
8. ALL SPRINKLER SYSTEM REFERENCE DRAWINGS ARE LISTED IN M515–4 TABLE 1 UNLESS NOTED OTHERWISE.
9. ALL INSTRUMENTATION ARE PREFIXED WITH "FP" UNLESS OTHERWISE NOTED.
10. FP–V–290 AND FP–V–394 ARE CAST STEEL TO HELP RESIST WATER HAMMER DAMAGE

LEGEND

1. ALL VALVES SUFFIXED WITH A (V) DENOTE A ¾" VENT VALVE.
2. ALL VALVES SUFFIXED WITH A (D) DENOTE A ¾" DRAIN VALVE.
3. ALL VALVES SUFFIXED WITH A (TH) DENOTE A THROTTLED VALVE.

DETAIL B

DETAIL A

LR NOTES:

A. FOR GENERAL LICENSE RENEWAL NOTES, SEE LR–M501–2.
B. ALL HIGHLIGHTED COMPONENTS SHOWN ON THIS DRAWING ARE EVALUATED IN THE FIRE PROTECTION SYSTEM.
~~C. NOT AN ESSENTIAL FIRE HOSE STATION. THEREFORE, NOT IN SCOPE.~~
D. EVALUATION BOUNDARY ENDS AT THE REACTOR BUILDING WALL.
E. COMPONENTS HIGHLIGHTED ON THIS DRAWING ARE IN SCOPE FOR (a)(3)–FIRE PROTECTION. THEREFORE, ONLY COMPONENTS IN THE MAIN FLOW PATHS AND BRANCH LINES TO THE FIRST ISOLATION VALVE ARE HIGHLIGHTED.

DRAWING CREATED FROM M515–5 REV 3

ENERGY NORTHWEST — COLUMBIA GENERATING STATION

SIGNATURE	DATE	TITLE
APPROVED		LICENSE RENEWAL BOUNDARY DRAWING FIRE PROTECTION SYSTEM REACTOR BUILDING DIESEL GENERATOR BUILDING AND RADWASTE BUILDING
CHECKED		
DRAWN		
SCALE: NTS		DWG NO.: LR–M515–5 REV: 1 of 2
TRACE		

TOP TIER

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