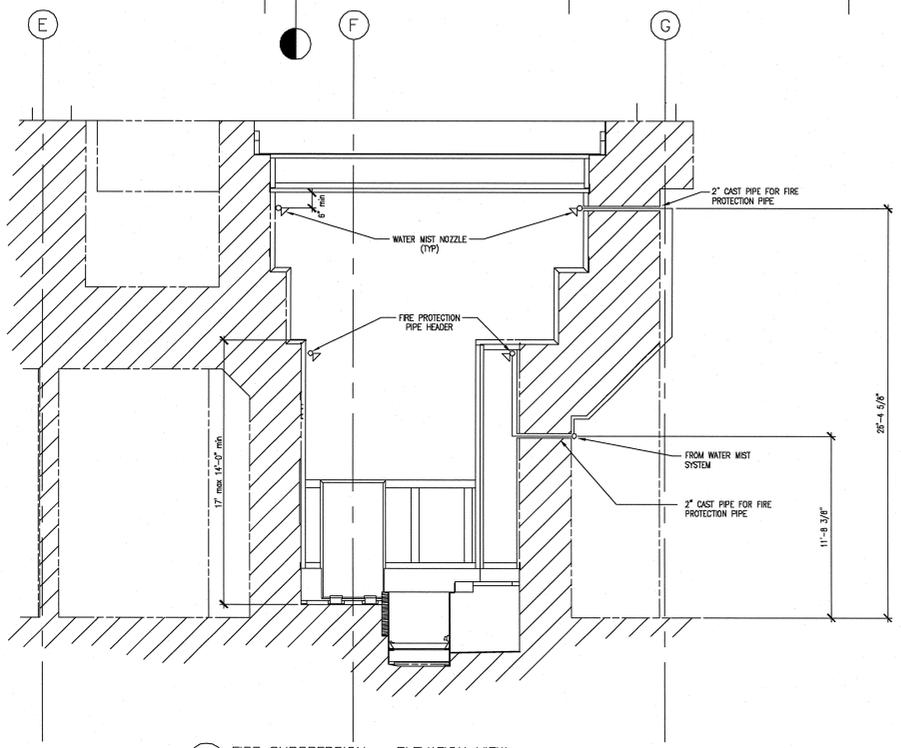


FIRE SUPPRESSION SCHEMATIC - PLAN VIEW  
SCALE: 1/4" = 1'



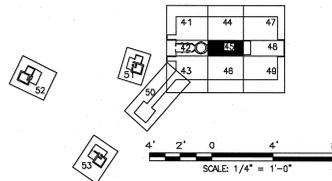
FIRE SUPPRESSION - ELEVATION VIEW  
SCALE: 1/4" = 1'

- NOTES:
1. WATER MIST SYSTEM SHALL BE DESIGNED, INSTALLED, AND TESTED IN ACCORDANCE WITH THE NFPA 750 AND THE PROJECT SPECIFICATIONS.
  2. ALL COMPONENTS OF THE WATER MIST SYSTEM SHALL BE UL LISTED OR FM APPROVED.
  3. ALL PIPING SHALL BE LOCATED ALONG THE SIDE WALLS IN A MANNER THAT DOES NOT INTERFERE WITH THE OPERATION OF OVERHEAD CRANES.
  4. TUBING AND PIPING SHALL BE ATTACHED TO A 11 GAUGE STAINLESS STEEL LINER WITHOUT PENETRATING THE LINER.

- SYMBOLS:
- ◁ - WATER MIST NOZZLE
  - ⊙ - DENOTES SAFETY-CLASS COMPONENT (SCC) SUBSTITUTIONS FOR SCC COMPONENTS MAY NOT BE MADE WITHOUT THE PROPER AUTHORITY
  - ⊕ - DENOTES SAFETY-SIGNIFICANT COMPONENT (SSC) SUBSTITUTIONS FOR SSC COMPONENTS MAY NOT BE MADE WITHOUT THE PROPER AUTHORITY

THE MARCH 2001 PRELIMINARY SAFETY ANALYSIS REPORT (PSAR) IDENTIFIES SAFETY CLASS COMPONENTS (SCC) AND SAFETY SIGNIFICANT COMPONENTS (SSC). SUBSTITUTIONS FOR SCC AND SSC COMPONENTS MAY NOT BE MADE WITHOUT THE PROPER AUTHORITY. A SUMMARY OF SCC AND SSC IS GIVEN BELOW. REFER TO THE LATEST VERSION OF THE PSAR OR SAR FOR FURTHER CLARIFICATION.

CLASS COMPONENT	DOCUMENTS
SCC 2 HOUR FIRE WALL AROUND MANIPULATOR SERVICE GALLERY AND HOT CELL	AT.01.30, AS.20.30, J1, J2
SCC PC-3 DESIGN FOR CONCRETE STRUCTURE	SO.10.30 STRUCTURAL NOTES
SCC HIGH BAY CRANE TO BE CLASS D (HEAVY DUTY) AND NOS 1 CLASS 1	AS.20.30, J1, J2, SPECIFICATION 4E(N3)
SCC HIGH BAY FLOOR DESIGNED FOR DROP LOADS	ALLOWABLE DROP LOADS INDICATED ON SO.10.30
SCC STAINLESS STEEL MERCURY PIT IN HOT CELL	J8.10.30
SCC STAINLESS STEEL LINER IN HOT CELL	J8.10.30
SCC PRIMARY CONFINEMENT EXHAUST SYSTEM	J2.10.31, I7.40.33, H8.40.03, J3.30.31
SCC FIRE DETECTION ALARM EQUIPMENT FOR MERCURY BEARING SMOKE TARGET BUILDING FIRE SUPPRESSION SYSTEM, HOT CELL FIRE SUPPRESSION SYSTEM	SPECIFICATION 15.300, 16.730



108030700-J8E-8700-A263

**UT-BATTELLE**

Ok Ridge National Laboratory  
managed for the DEPARTMENT OF ENERGY under  
U.S. GOVERNMENT CONTRACT DE-AC05-00OR22725

PROJECT NAME:  
**SPALLATION NEUTRON SOURCE  
TARGET BUILDING  
HOT CELL  
FIRE SUPPRESSION PLAN**

1 48 49 50 PLANT 8700 BLDG FL SH OF TYPE CLASS  
3 F X X 8 8700 1 1 P U  
51 52 53 54  
NC NA IN WBS 1.8.37 J3.99.30 REV 0

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NUMBER OF SECTION OR DETAIL

SECTION AND DETAIL KEY

THIS DOCUMENT CONTROLLED BY

CHANGE CONTROL SYSTEM 3

ENGINEERING PROCEDURE SNS-ENG-0901

REV	DATE	DESCRIPTION	BY	CHK	DATE	PE	DATE	PU	DATE	REVISION APPROVALS
0		CERTIFIED FOR CONSTRUCTION - 10/26/01	RHD	DSH						
1	11/14/01		RHD	DSH	10/26/01					
2	11/26/01		RHD	DSH	10/26/01					

REV. DATE

DRWING APPROVALS

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