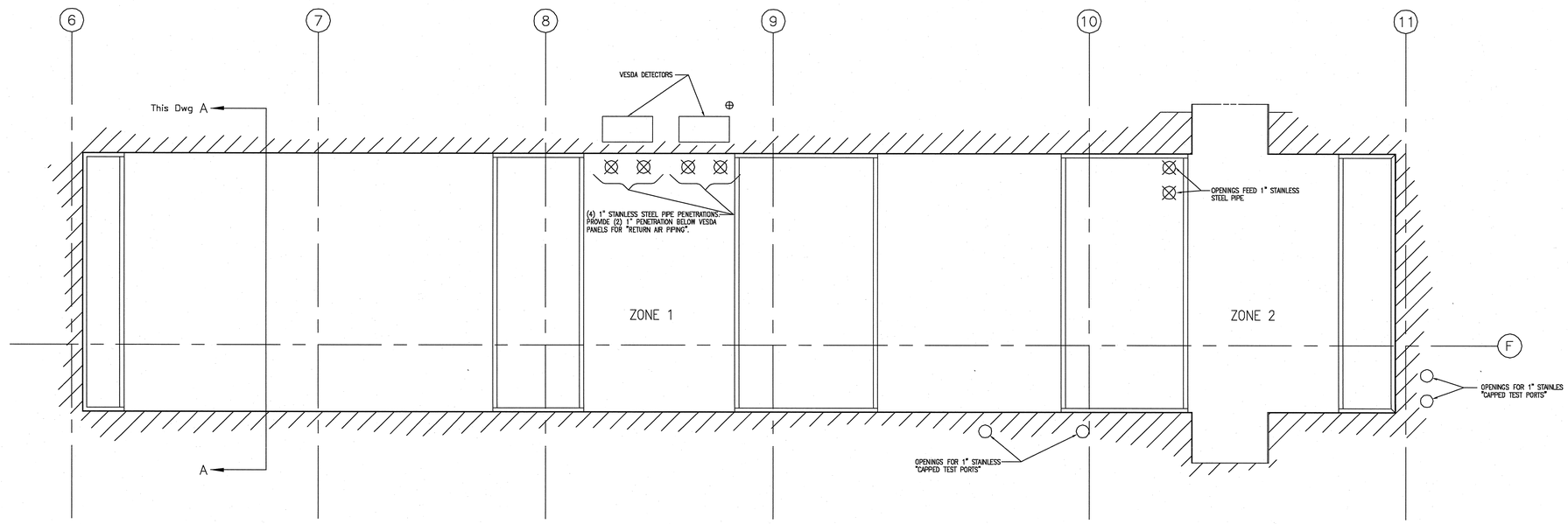
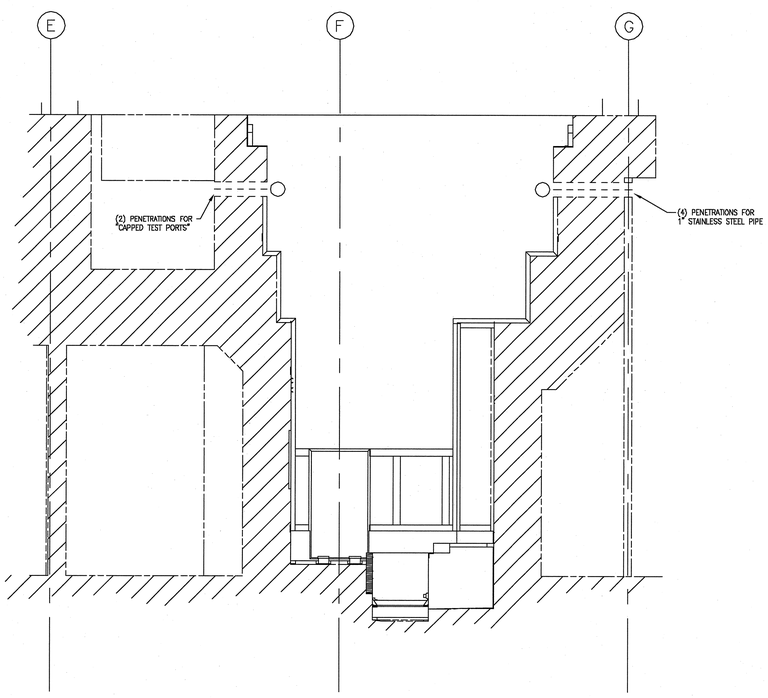


FIRE DEETECTION SCHEMATIC – PLAN VIEW
SCALE: 1/4" = 1'



A FIRE DETECTION SCHEMATIC – ELEVATION VIEW
SCALE: 1/4" = 1'

THE MARCH 2001 PRELIMINARY SAFETY ANALYSIS REPORT (PSAR) IDENTIFIES SAFETY CLASS COMPONENTS (SCC) AND SAFETY SIGNIFICANT COMPONENTS (SSC). SUBSTITUTIONS FOR SCCC 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.

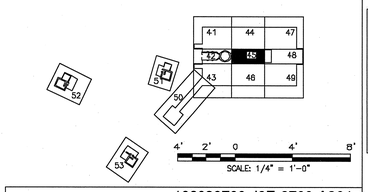
CLASS	COMPONENT	DOCUMENTS
SCC	2 HOUR FIRE WALL AROUND MANIPULATOR, SERVICE GALLERY AND HOT CELL.	A1.01.30, A3.20.30, 31, 32
SCC	PC-3 DESIGN FOR CONCRETE STRUCTURE.	S0.10.30 STRUCTURAL NOTES
SSC	HIGH BAY CRANE TO BE CLASS D (HEAVY DUTY) AND NOG 1 CLASS 1.	A3.20.30, 31, 32, SPECIFICATION 14630.
SSC	HIGH BAY FLOOR DESIGNED FOR DROP LOADS.	ALLOWABLE DROP LOADS INDICATED ON S0.10.30.
SCC	STAINLESS STEEL MERCURY PIT IN HOT CELL.	J8.10.30
SSC	STAINLESS STEEL LINER IN HOT CELL.	J8.10.30
SSC	PRIMARY CONFINEMENT EXHAUST SYSTEM.	J2.10.31, H7.40.33, H8.40.03, J3.32.31
SSC	FIRE DETECTION ALARM EQUIPMENT FOR MERCURY BEARING SMOKE, TARGET BUILDING FIRE SUPPRESSION SYSTEM, HOT CELL FIRE SUPPRESSION SYSTEM.	SPECIFICATION 15300, 16730

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 (SCC) SUBSTITUTIONS FOR SCC COMPONENTS MAY NOT BE MADE WITHOUT THE PROPER AUTHORITY



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NUMBER OF SECTION OR DETAIL
DRAWING ON WHICH SECTION OR DETAIL IS SHOWN OR TAKEN
SECTION AND DETAIL KEY

THIS DOCUMENT CONTROLLED BY
CHANGE CONTROL SYSTEM 3
ENGINEERING PROCEDURE SNS-ENG-0001

REV	CHANGE TYPE	CHANGE CONTROL SYSTEM	CHANGE REQUEST NUMBER	DESCRIPTION	DSN	CHK	DEPT	DATE	PE	DATE	PJ	DATE	REQ	DATE	UTB	DATE	RPE	RPE NO	DATE	ST	CV	EC	EE	EM	IE	M	PD	SE	AR
0				CERTIFIED FOR CONSTRUCTION – 10/26/01	RHD	DSH			RHD 11/14/01		RHD 11/01/01				DHS 11/12/01		RHD	103317	10/26/01										

REVISION OR ISSUE PURPOSE — REVISION APPROVALS — SQUAD CHECK

REV.	DATE

RPE ROBERT DESCHAMBAULT REGISTERED PROFESSIONAL ENGINEER NO. 103317 STATE OF TENNESSEE 10/26/01

DRAWING APPROVALS		
DSN	R. Deschambault	10/26/01 RHD
DRW	MJ	
CHK	DSH	
DEPT	FPE	
PE	Bob Harrison	11/14/01
PJ	K A Dean	11/01/01
REQ		
UTB	Bob Harrison	11/13/01

108030700-J8E-8700-A264

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UT-BATTELLE, LLC, ● Oak Ridge, Tennessee

PROJECT NAME:
SPALLATION NEUTRON SOURCE

TARGET BUILDING
HOT CELL
FIRE SUPPRESSION SECTIONS AND DETAILS

1	48	49	50	PLANT	BLDG	FL	SH.	OF	TYPE	CLASS
3	F	X	X	8	8700		1	1	P	U
51		52		53	WBS					REV
NC		NA		IN	1.8.3.7		J3.99.31			0

AutoCAD