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May 16, 1983

Director
Office of Nuclear Reactor Regulation
U S Nuclear Regulatory Commission
Washington, DC 20555

PRAIRIE ISLAND NUCLEAR GENERATING PLANT
Docket Nos. 50-282 License Nos. DPR-42
50-306 DPR-60

Clarifying Information in Support of Exemption
Requests for Fire Areas 58, 59, 73 and 74

Reference (a) Letter from D M Musolf to NRR dated June 30, 1982, "Fire Protection Safe Shutdown Analysis and Compliance with Section III.G. of 10 CFR 50, Appendix R, Including Requests for Relief."

(b) Letter from D M Musolf to NRR dated March 11, 1983, "Request for Relief from the Requirements of 10 CFR Part 50, Section 50.48 (b) for Fire Areas No 58, 59, 73 and 74."

Enclosures (1) through (5) are provided to clarify information previously presented by reference (a) and (b). They are submitted in response to NRC Staff concerns generated during review of exemption requests in reference (b).

Enclosure (1) provides an explanation of differences between sketches of reference (a) and (b) for Fire Areas 58, 59, 73 and 74.

Enclosure (2) describes the drawings submitted in enclosures (3) and (4). It also provides a more in-depth fire hazards analysis where a train B safe shutdown component exists within close proximity (less than 20 feet) to an unprotected train A safe shutdown cable tray.

Enclosure (3) contains all figures depicting the safe shutdown equipment and cables/conduit in the subject fire areas. Each figure shows the relative location of train A and train B safe shutdown trains in each area for one safe shutdown function only. This is to help the reviewer comprehend the relative position of functionally redundant safe shutdown equipment and cable trays. A definition and detailed description of each safe shutdown function can be found in section 4 of reference (a) and should be reviewed prior to studying enclosure (3).

Enclosure (4) provides a photographic tour through locations of concern in Fire Areas 58 and 73. It also shows the paths major amounts of combustibles would have to take to reach key locations.

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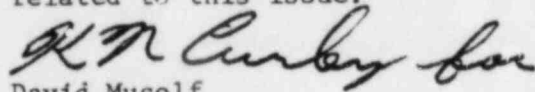
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NORTHERN STATES POWER COMPANY

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Enclosure (5) is a list of safe shutdown system components with associated description, power supplies and cable identification. This list was recently compiled by our consultant who was contracted to review our Appendix R safe shutdown analysis to date. It is included to assist the reviewer in his analysis of the proposed alternatives.

Enclosures (3) through (5) are not intended for general distribution and only one copy without photographs is forwarded. Please contact us if you have any questions related to this submittal or if we can furnish additional information related to this issue.



David Musolf
Manager-Nuclear Support Services

DMM/KNC/js

cc: Regional Administrator-III, NRC (enclosures (1) & (2) only)
NRR Project Manager, NRC (enclosures (1) & (2) only)
NRC Resident Inspector (enclosures (1) & (2) only)
G Charnoff (enclosures (1) & (2) only)

Enclosures

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Enclosure 1
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Explanation of Sketch Differences Between the June 1982 and March 1983 Submittals.

The first major difference is the length of safe shutdown cable trays shown in each set of sketches. The June 1982 sketches only show redundant cable trays that exist within 20 feet of each other, since our original intention was to protect only one safe shutdown train of cable trays out to the Appendix R separation criteria of 20 feet. By Letter dated February 17, 1983 we committed to one hour wrap all cable trays of one redundant safe shutdown train throughout each fire area where exemptions were initially denied. To illustrate this, cable tray layouts were expanded on the March 1983 sketches to show all functionally redundant cable trays for both safe shutdown trains in each fire area.

The second major difference is that the June 1982 sketches do not accurately depict 3-hour rated walls and partial masonry walls in the subject areas. They were drawn from plant general layout drawings which are difficult to read and interpret correctly. Accuracy of barrier location was inadvertently overlooked since the original exemption request concerned itself with a worst case analysis of fires between cable trays of close proximity through the use of quantitative fire modeling techniques. The March 1983 sketches more accurately show barrier layout, as our criteria for seeking exemptions has shifted to a design basis protection approach (rather than design basis fire) of which location of barriers is important.

Significant differences besides extension of cable layout greater than 20 ft. in the sketches drawn are described below:

Fire Area 58: Far left horizontal 3-hour wall incorrectly drawn in the June submittal. 3-hour curb was misinterpreted for a 3-hour wall on plant general layout drawing. Charging pump cubicles not drawn as three separate rooms without doors in the June submittal as finer detail not considered relevant based on fire modeling worst case analysis. Masonary walls to the right of the charging pump cubicles incorrectly drawn in the June sketch due to misinterpretation of general layout drawings by consultant engineering firm. MCC-1K2 was inadvertently misoriented by 90° on the March 1983 sketch.

Fire Area 59: The part-height wall shown in the June sketch 1984 was not drawn in the March 1983 sketch. The part-height wall which is away from cables of concern is not considered relevant. Also the intent of the March sketches were mainly to show the extent of increased tray wrapping due the more strigent criteria of our proposed alternative to the original exemption request. The June sketch shows MCC-LL2, but label inadvertently omitted.

Fire Area 73: Similar differences for barrier layout as in Fire Area 58.

Fire Area 74: No significant differences noted.

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Enclosure 2
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Drawing Description and Expanded Fire Hazards Analysis

The attached figures of enclosure (3) are provided to help clarify the physical layout of safe shutdown cabling and equipment in Fire Areas 58, 73, 59, and 74 at Prairie Island Nuclear Generating Plant. This information is intended to supplement the exemption request made by Northern States Power on March 11, 1983. The drawings are labeled, and show those cables and components necessary for each of the five shutdown junctions individually.

Some differences may be noted between these drawings and those presented in the March 11 submittal. The single most important reason is that the attached drawings show significantly more detail. Specific corrections include the reorientation of MCC 1K2 in Fire Area 58 which was in error previously and the removal of an "A" tray in Fire Area 73 which is not required for safe shutdown.

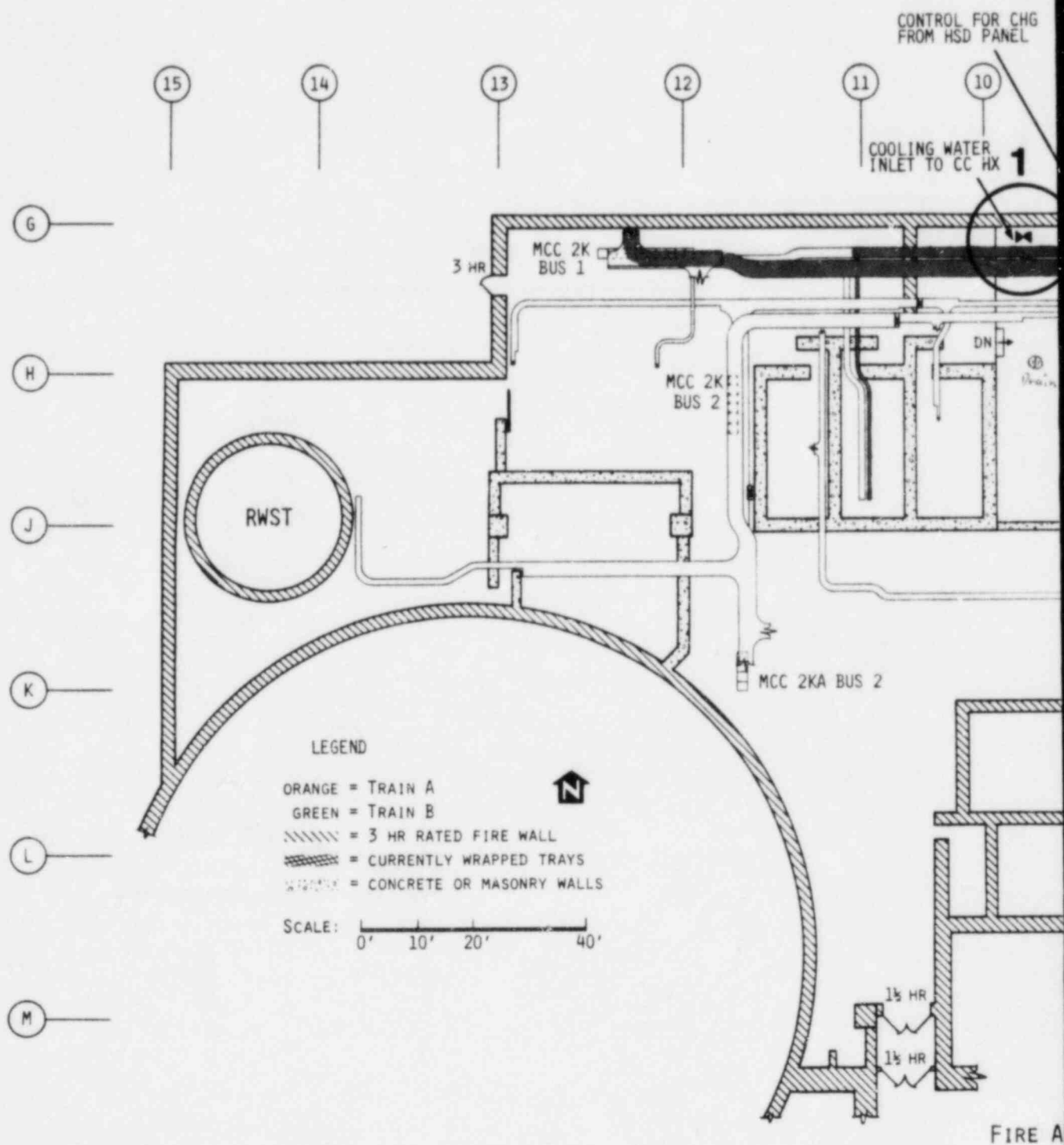
In reviewing the drawings three significant locations have been identified where it may appear that fire could damage both an unprotected "A" train cable tray and a redundant "B" train component. These locations are labeled 1, 2 and 3 on the Figure 1 drawing. All of these particular locations are on the ground floor of the Auxiliary Building. This area is both a radiologically controlled area and a vital area with dual access controls and is not a normal traffic path. Dual access controls refer to the emergency exit doors which make it difficult to transport flammable material into this area because:

- a. They can only be opened from inside the area of concern.
- b. They are sealed (orange tag) against opening except with shift supervisor permission.
- c. Opening of these doors sounds an alarm in the control room and the guard house

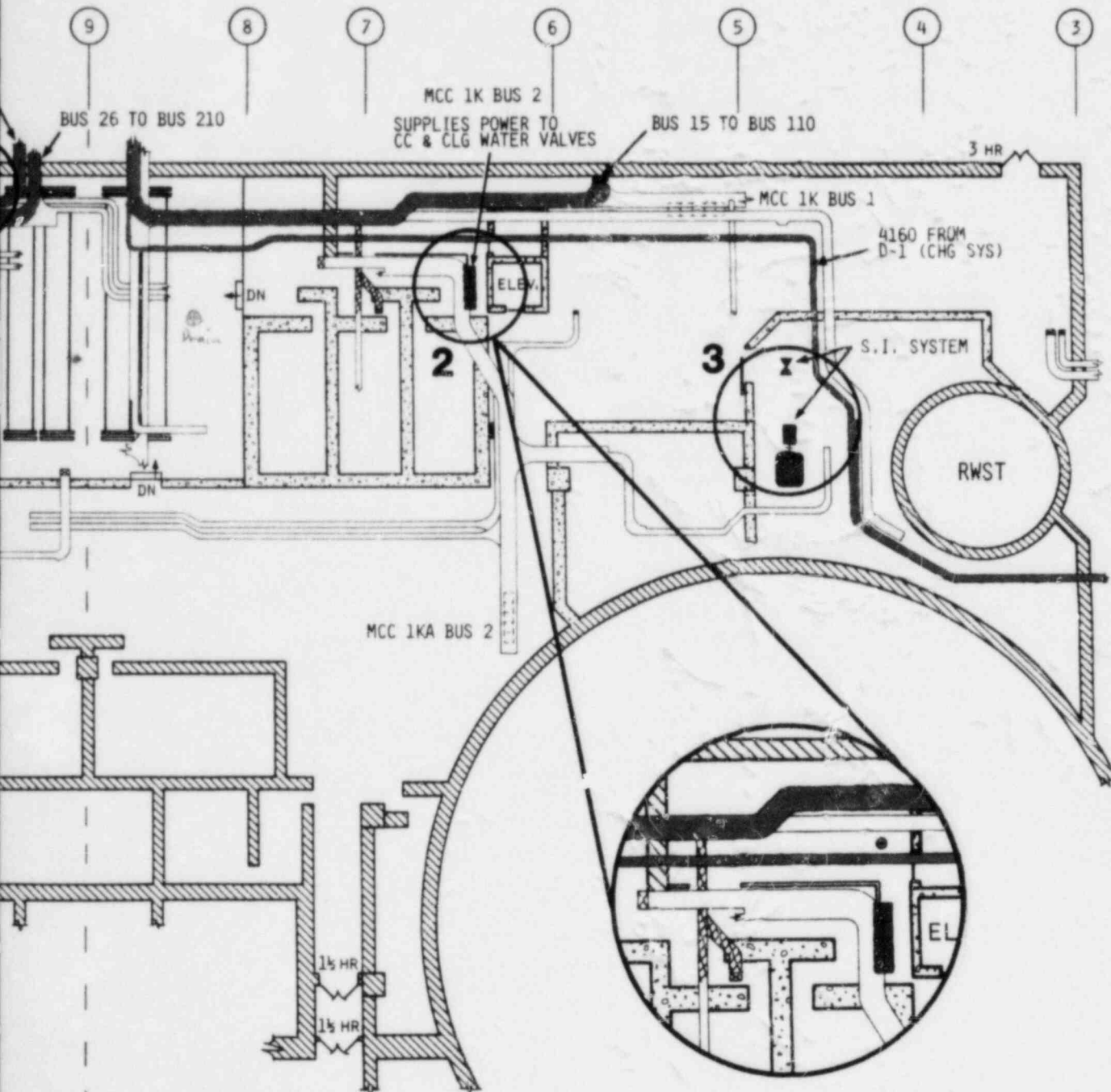
Schedule A of enclosure (4) along with accompanying pictures, provides a photographic tour of this area. The area is routinely patrolled by the plant operations staff every 4 hours. In addition, there two Auxiliary Building operators on duty in the "operator shack," 24 hours a day. This location affords a general view of the elevator and various traffic paths personnel can take through the area. Schedule B of enclosure (4) shows these traffic paths and the inconvenience and difficulty of transporting combustibles to location of concern in those fire areas. It is inconceivable that transient combustibles could accumulate in these fire areas in sufficient quantities to threaten both trains of redundant equipment in the area at any location. Due to the factors listed below, a) locations 1, 2, and 3 are even less probable to be the site of an accumulation of combustibles, and b) it is demonstrated that protective features exist which ensure that at least one train of safe shutdown equipment will remain free of damage.

1. In this location a cooling water valve which supplies the component cooling heat exchanger for maintenance of reactor coolant inventory (B train) is located near cables which supply 4160V power to the "A" train 4160V/480V safeguards transformer, and control cables for the A train charging pump, also for maintenance of reactor coolant inventory.
 - a. The floor area beneath these components is actually a pit in which the four component cooling water heat exchangers exist and is provided with a very effective drain system to handle any leakage from the heat exchanger cooling water side which would prevent the accumulation of combustible fluids.
 - b. The heat exchangers and piping in the area would provide thermal shielding between the trays and valve overhead and a fire on the floor.
 - c. The distance from the floor to the trays is 16 feet.
 - d. This area is not a normal maintenance work area and is not a normal traffic path. Radiologically contaminated, controlled access areas exist on the east and west sides of the heat exchanger pit leaving only one access on the south side. Difficult access to the area makes it highly improbable if not impossible to envision the accumulation of combustibles in the area.
 - e. Since B train trays will be wrapped as described in the Exemption Request of March 11, 1983, the B train charging system will remain free of damage and will provide the reactor coolant inventory control and boration function.
2. In this location the motor control center supplying power to component cooling and cooling water valves supporting the reactor coolant inventory function (B train) is located near D-1 diesel generator control cables, 4160V power cables from the diesel, and 4160V power cables to the 4160V/480V safeguards transformer which supply A train power to safe shutdown equipment.
 - a. The motor control center is mounted on a concrete pedestal 4 inches high which would prevent combustible fluids from getting under the MCC.
 - b. A floor drain is provided 3 feet north of the MCC.
 - c. The front of the MCC is shielded by a floor mounted 4 foot high steel fence which is sealed at the base preventing seepage of any fluid in front of the MCC.
 - d. Horizontal separation of the MCC and the nearest tray is 8 feet and the tray is 14 feet above the floor.

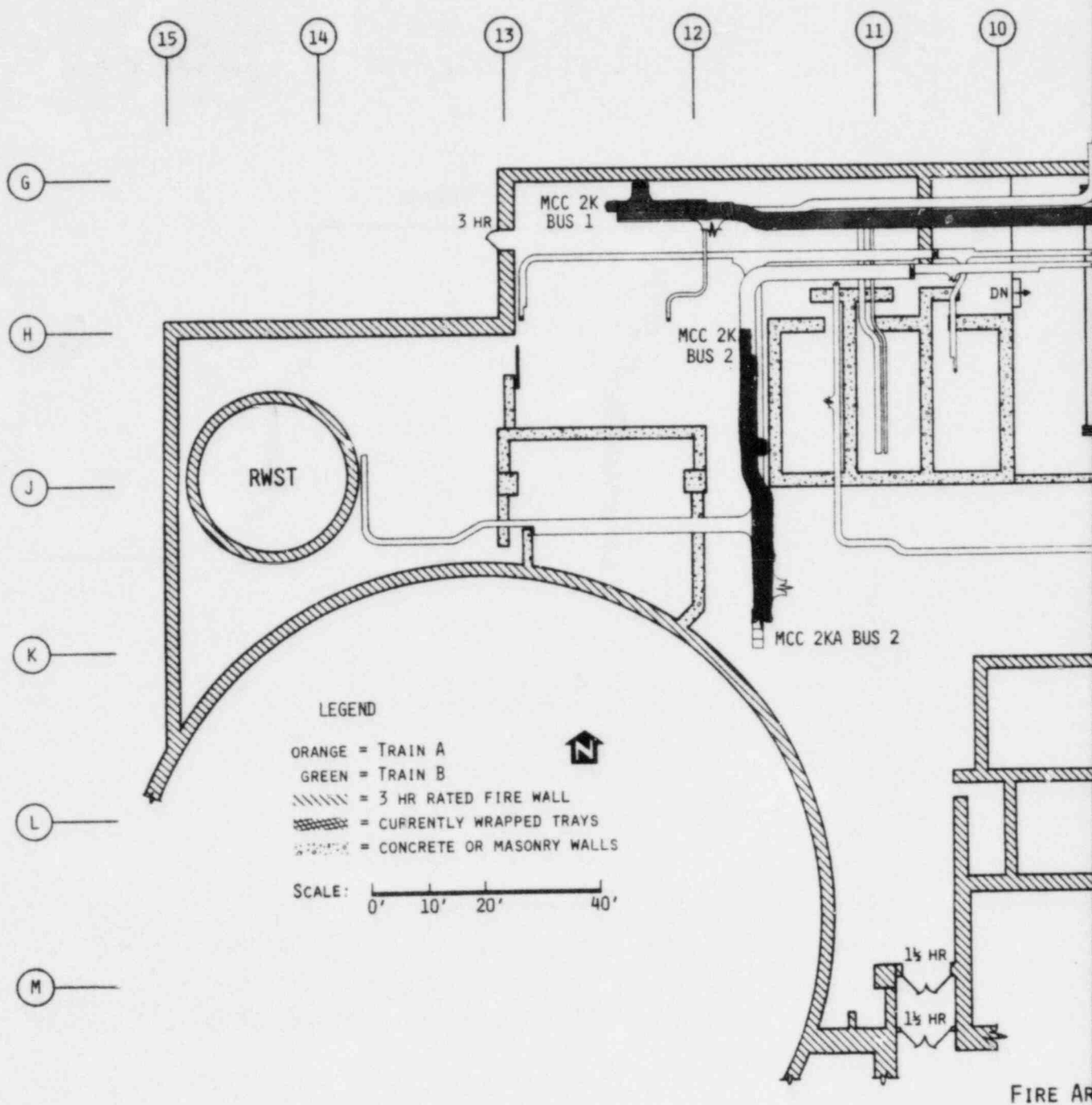
- e. This area is not a normal maintenance area and not a normal passage way. In fact it is a dead end area blocked by the concrete wall and steel fence which surrounds a contamination control area. This area is visited once every four hours by the operating staff during normal rounds.
 - f. The arrangement of fixed structures in the area, drainage and frequent surveillance makes it highly improbable if not impossible to accumulate any amount of transient combustible in the area. Therefore, there is no threat of a fire which could damage both redundant functions.
 - g. In order to completely defeat Unit 1 make-up inventory control (assuming loss of offsite power), a fire would have to disable supply breakers on MCC-1K2 for #11 charging Pump (train B), #13 charging Pump (train B) and a Safety Injection system component (train B), as well as the D-1 diesel (train A) control or power distribution cables. Considering the partial protection afforded by the 4 foot steel wall and the steel enclosure of MCC breakers, this is deemed to be highly unlikely for a fire between MCC-1K2 and the D-1 control/power cables.
3. In this location the safety injection pump and suction valve supporting the reactor coolant inventory function (B train) is located near D-1 diesel generator power to the safeguards bus supporting "A" train safe shutdown functions.
- a. Since B train trays will be wrapped as described in the exemption request of March 11, 1983, the "B" train charging system will remain free of damage and will provide the reactor coolant inventory control and boration function for No. 12 Safety Injection Pump.



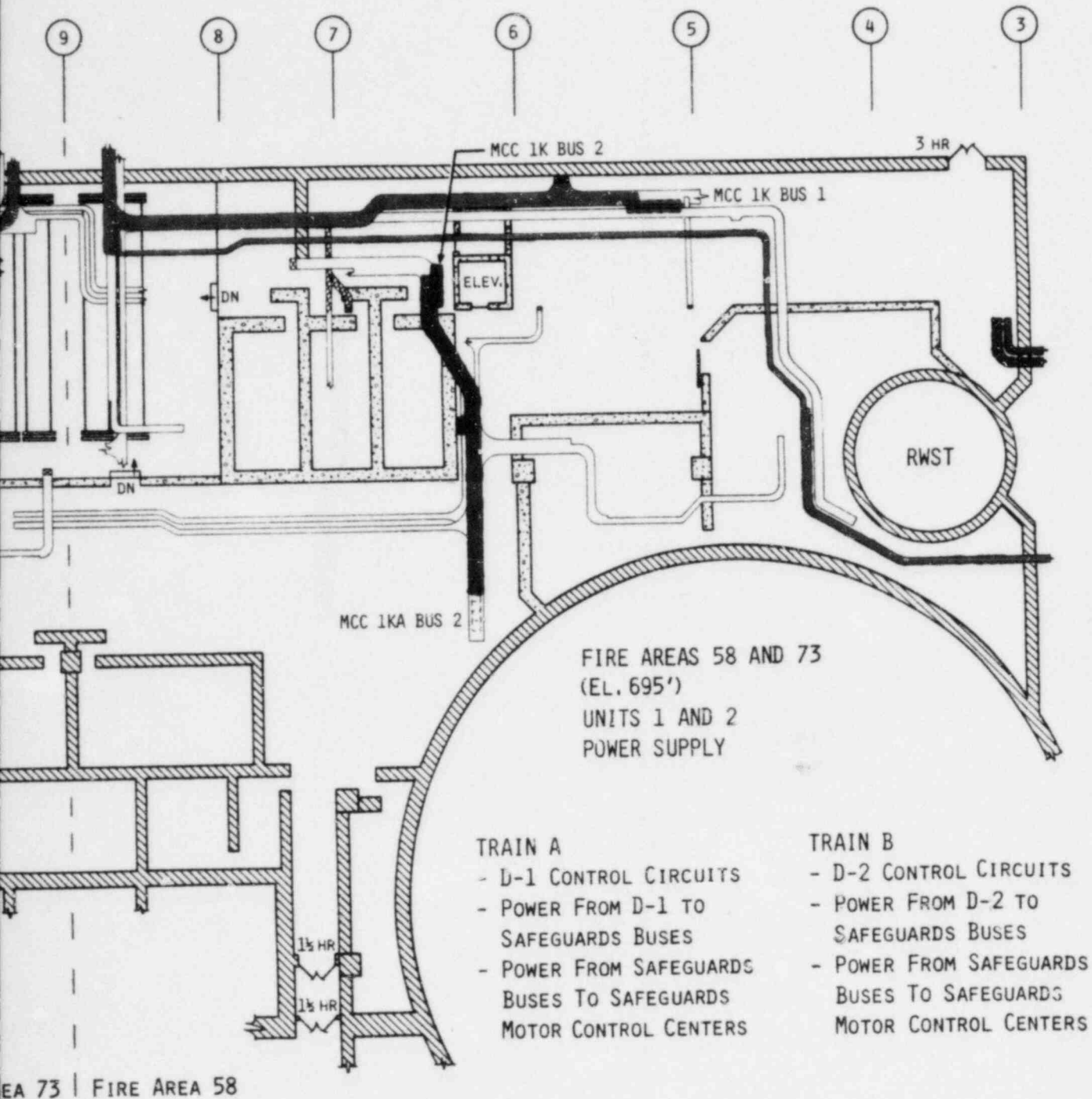
Dir of NRR
Enclosure 3
Figure 1
May 16, 1983

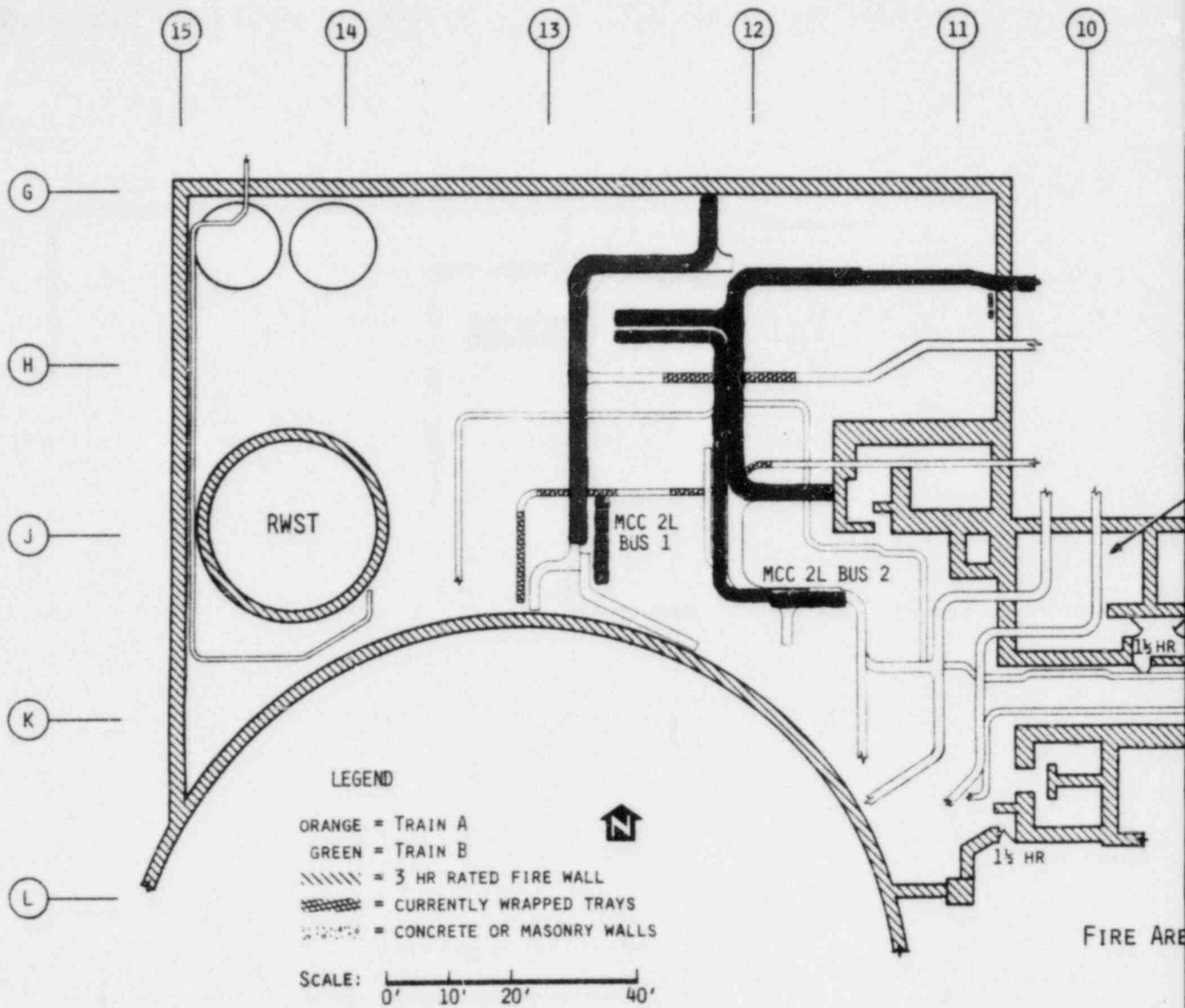


REA 73 | FIRE AREA 58



Dir of NRR
Enclosure 3
Figure 2
May 16, 1983

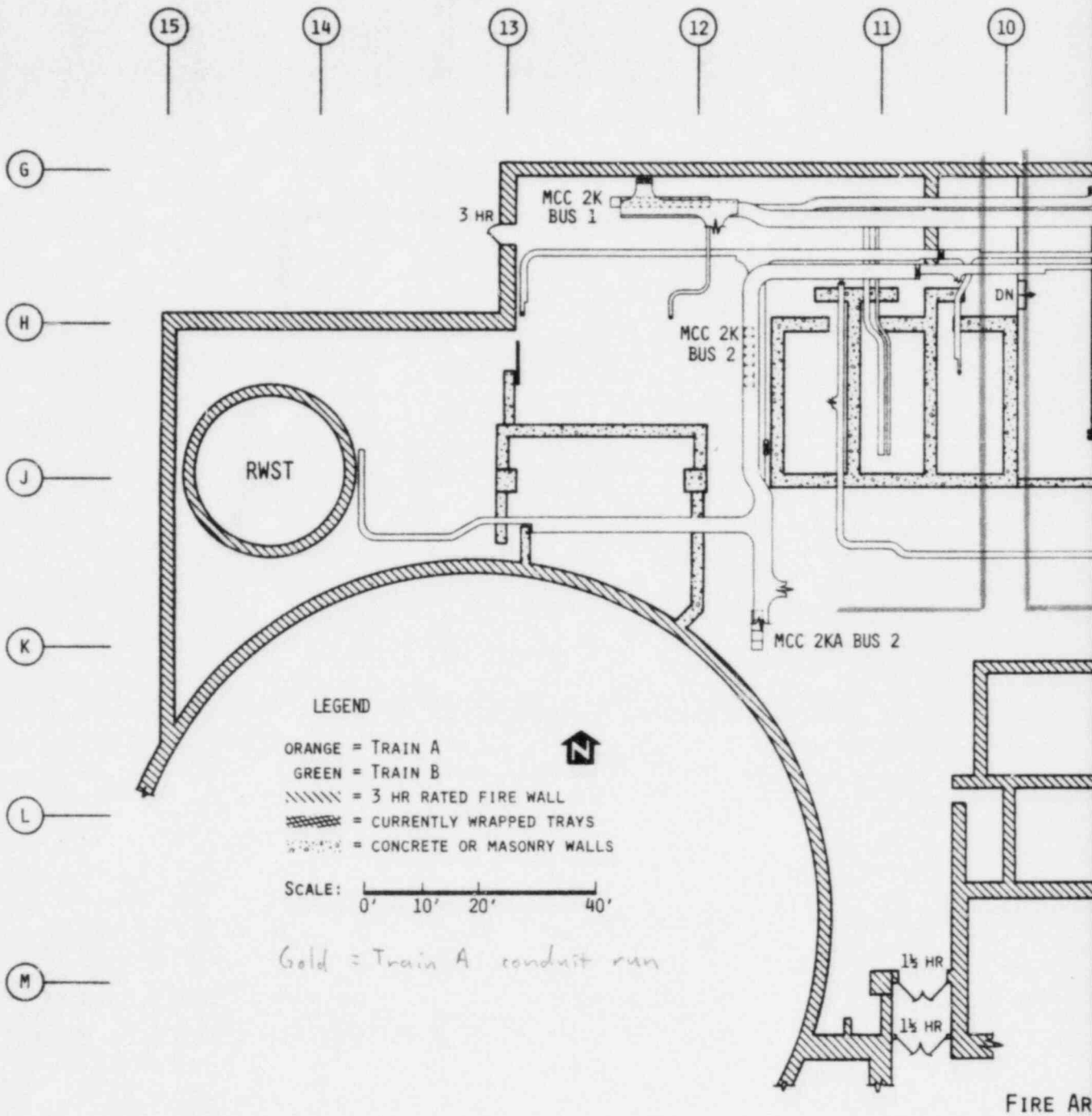




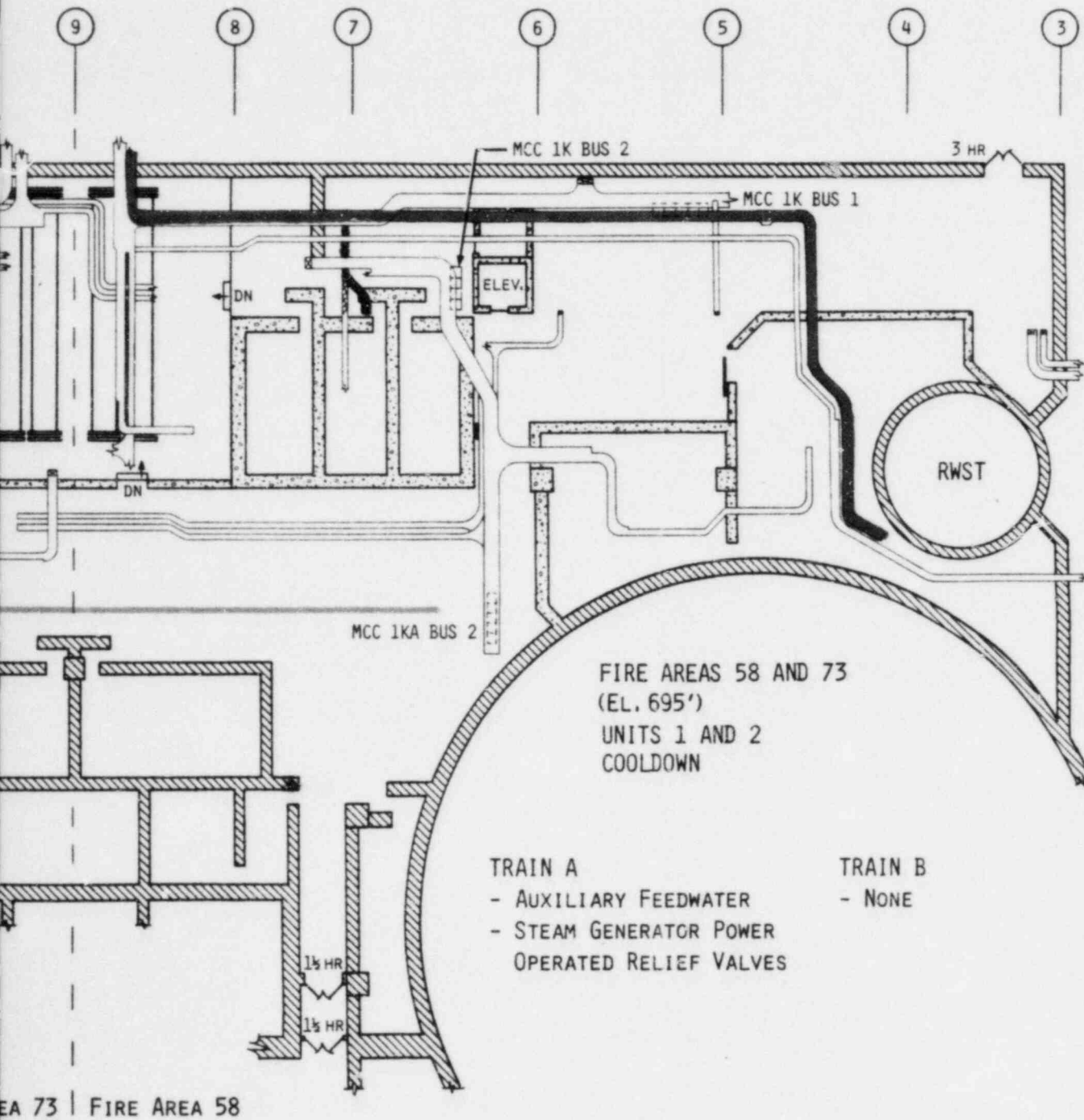


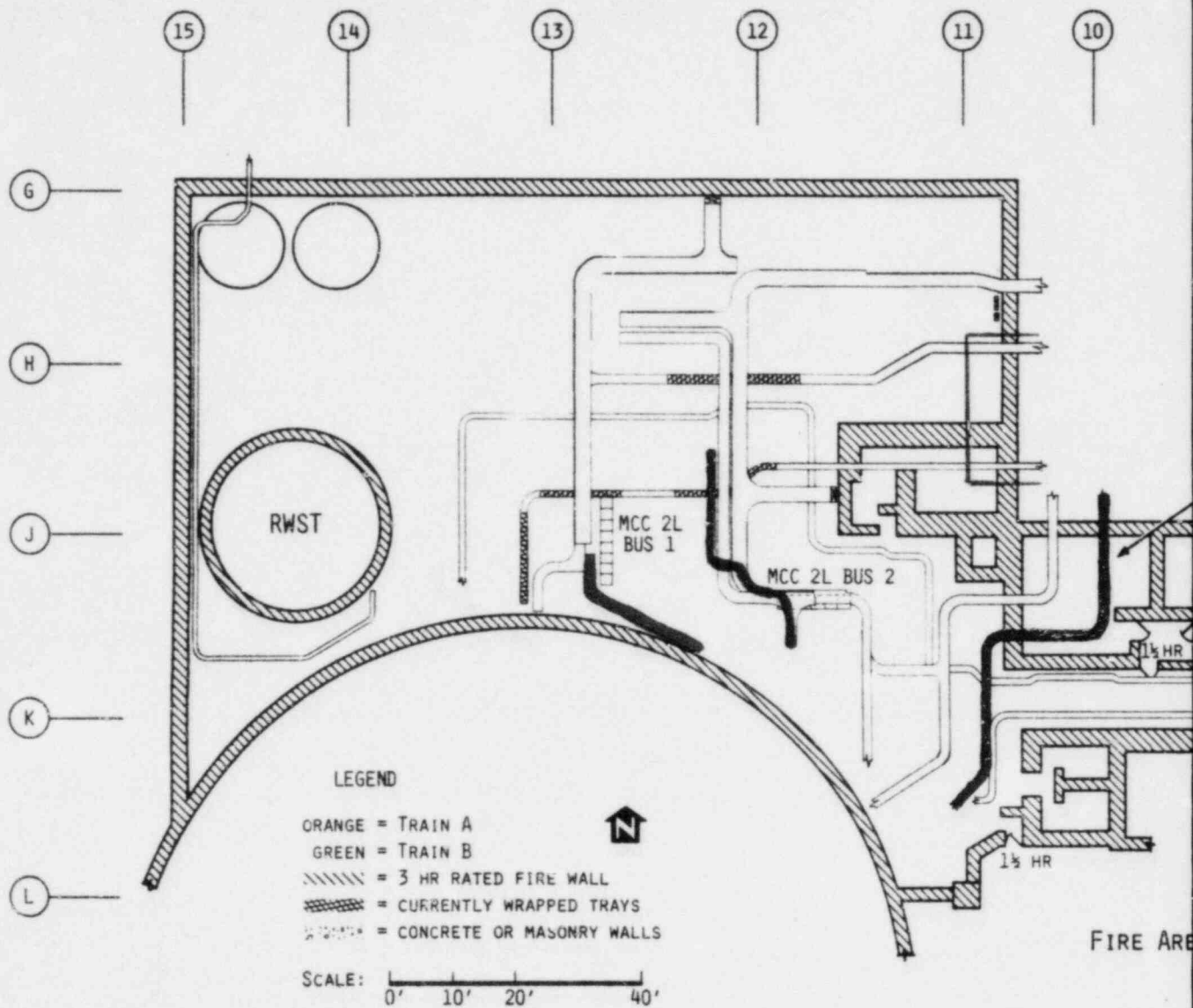
- D-1 CONTROL CIRCUITS
- POWER FROM D-1 TO SAFEGUARDS BUSES
- POWER FROM SAFEGUARDS BUSES TO SAFEGUARDS MOTOR CONTROL CENTERS

- D-2 CONTROL CIRCUITS
- POWER FROM D-2 TO SAFEGUARDS BUSES
- POWER FROM SAFEGUARDS BUSES TO SAFEGUARDS MOTOR CONTROL CENTERS

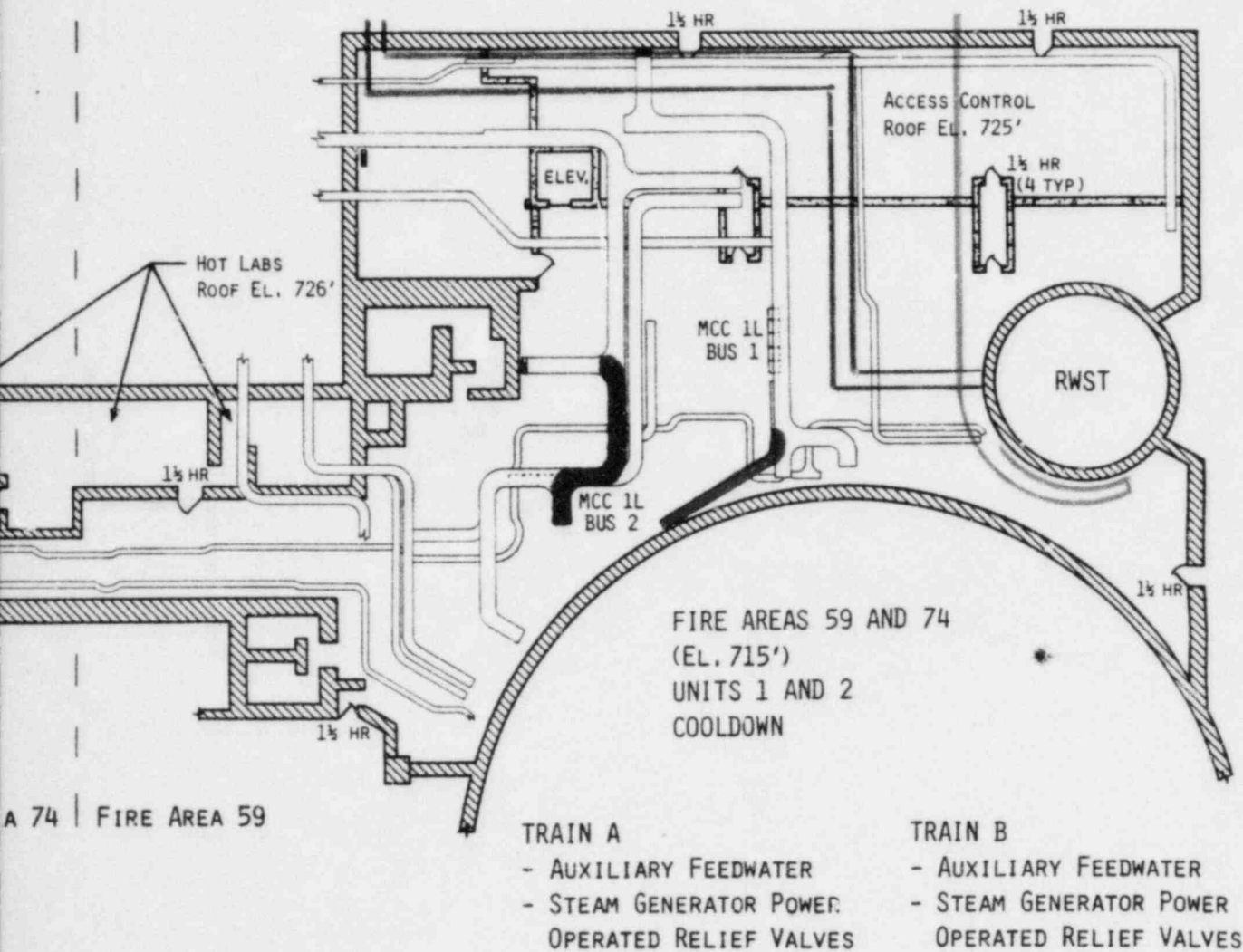


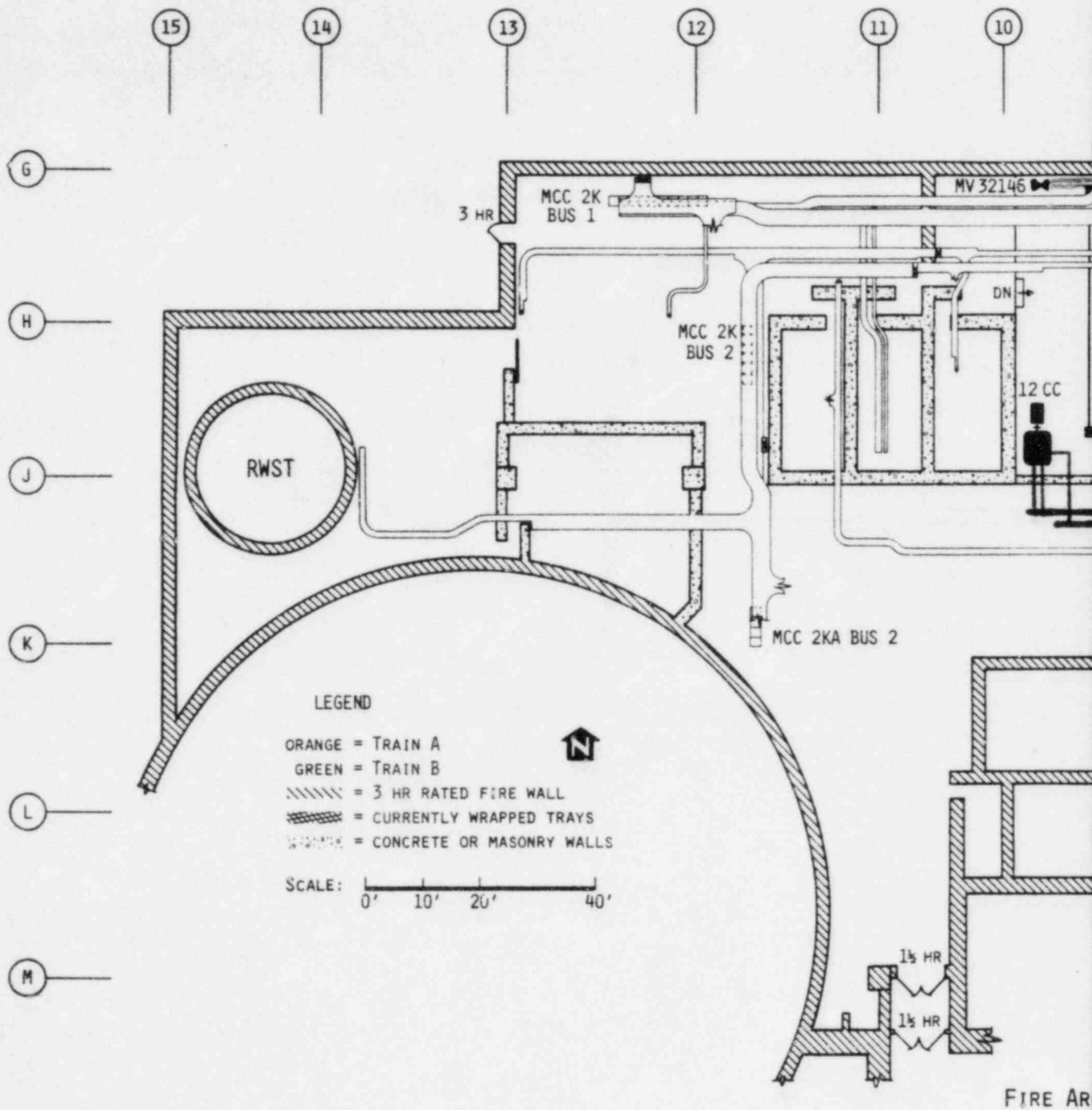
Dir of NRR
Enclosure 3
Figure 4
May 16, 1983

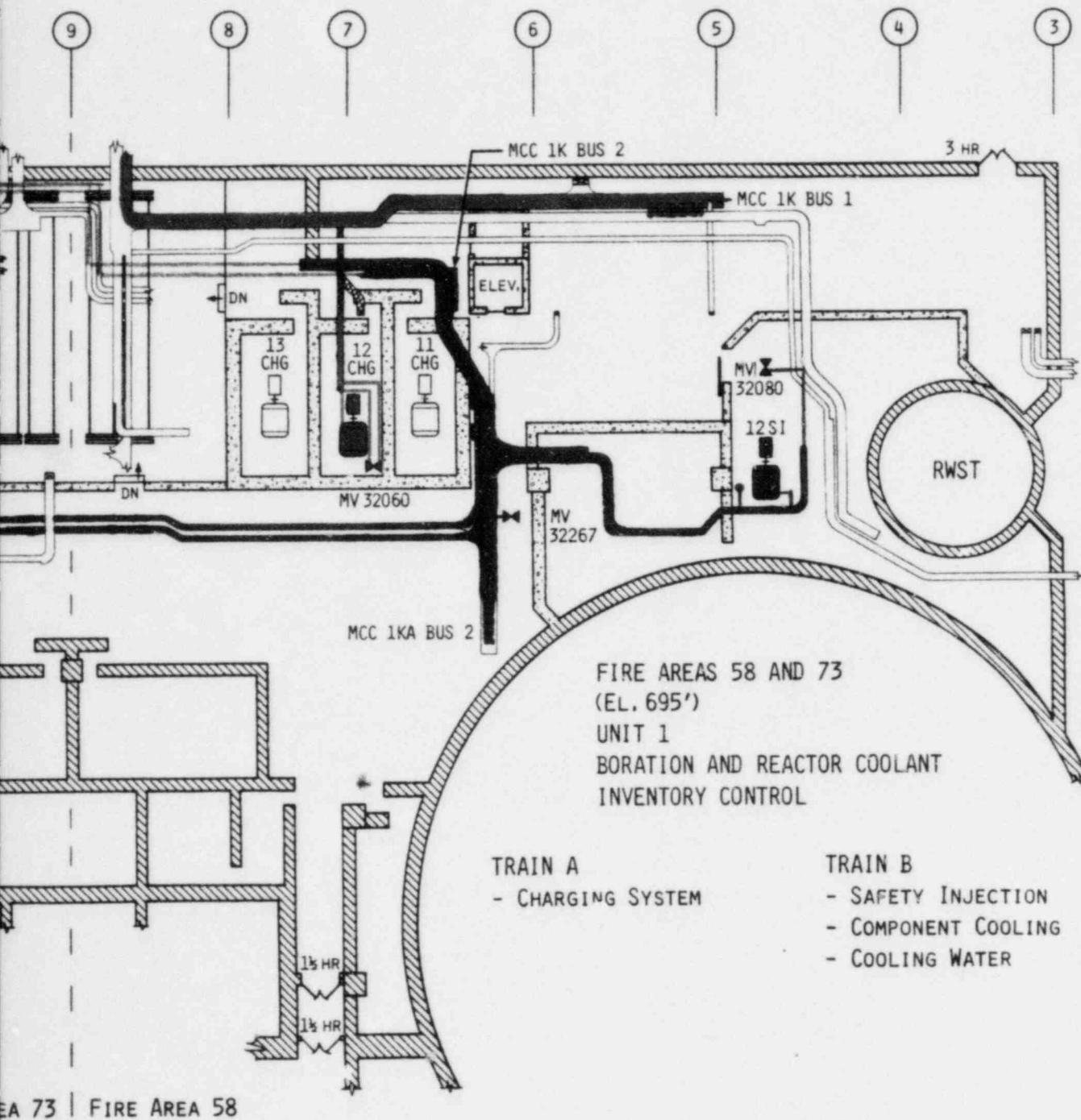


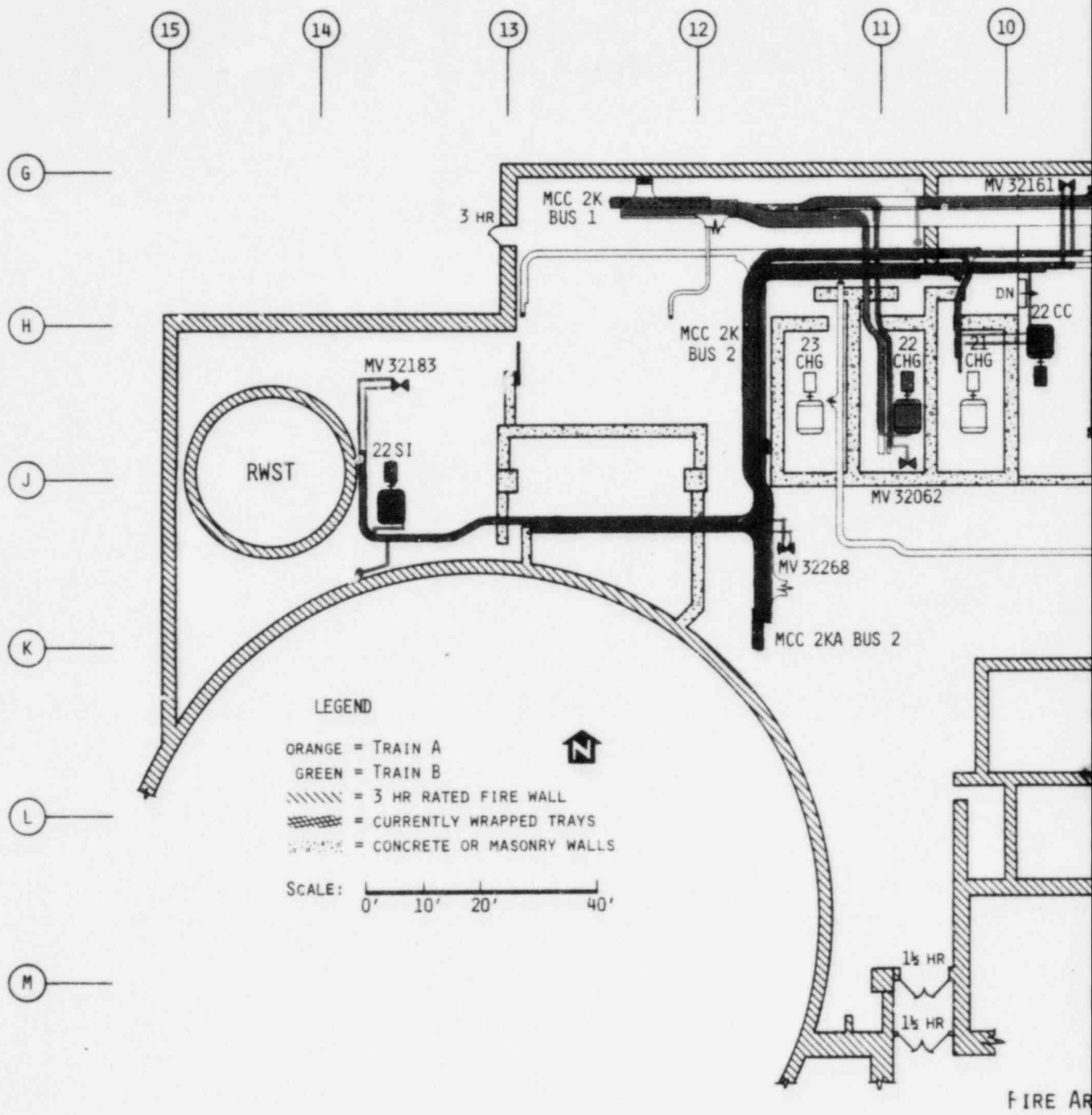


Gold = Train A conduit run

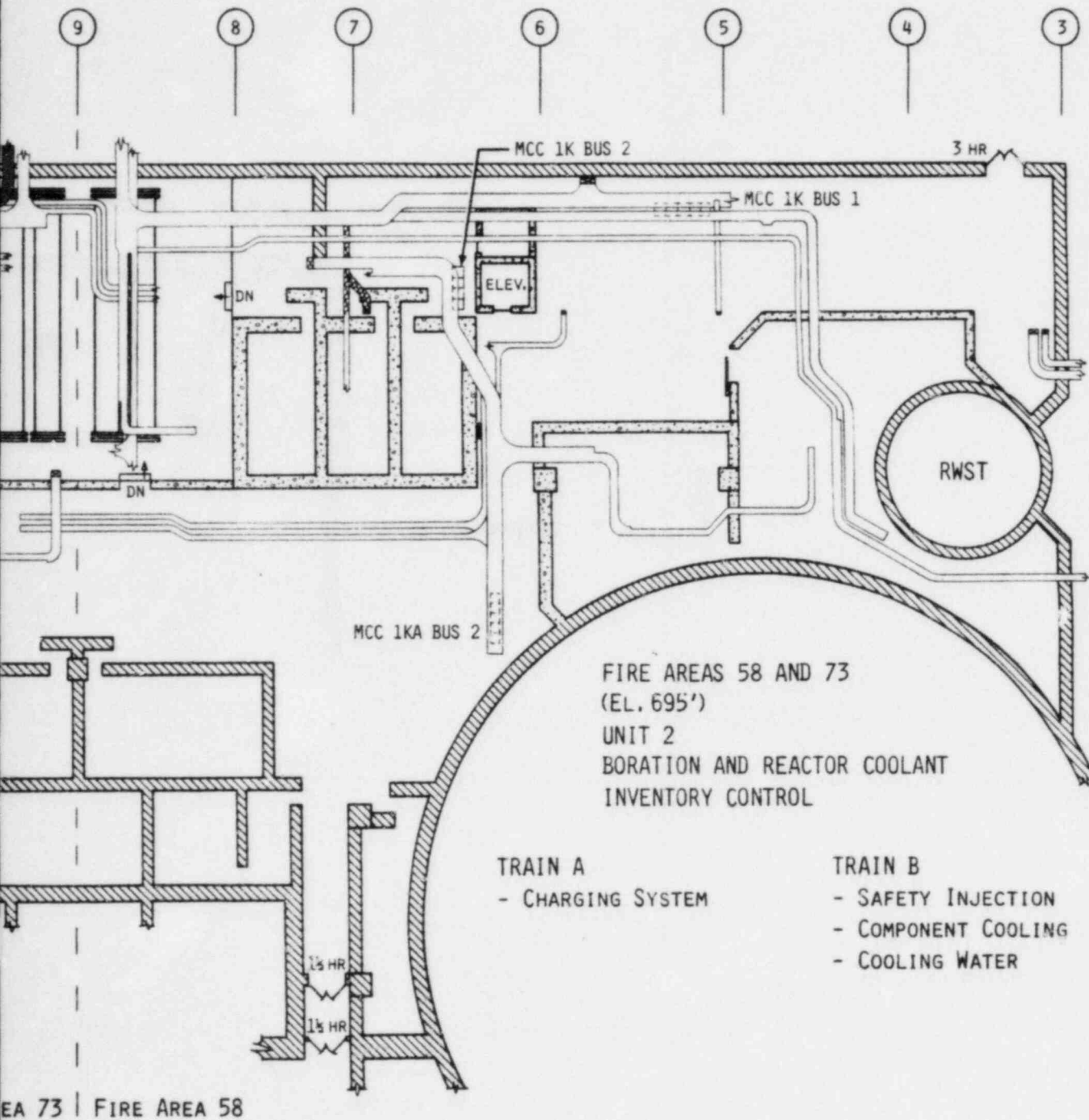


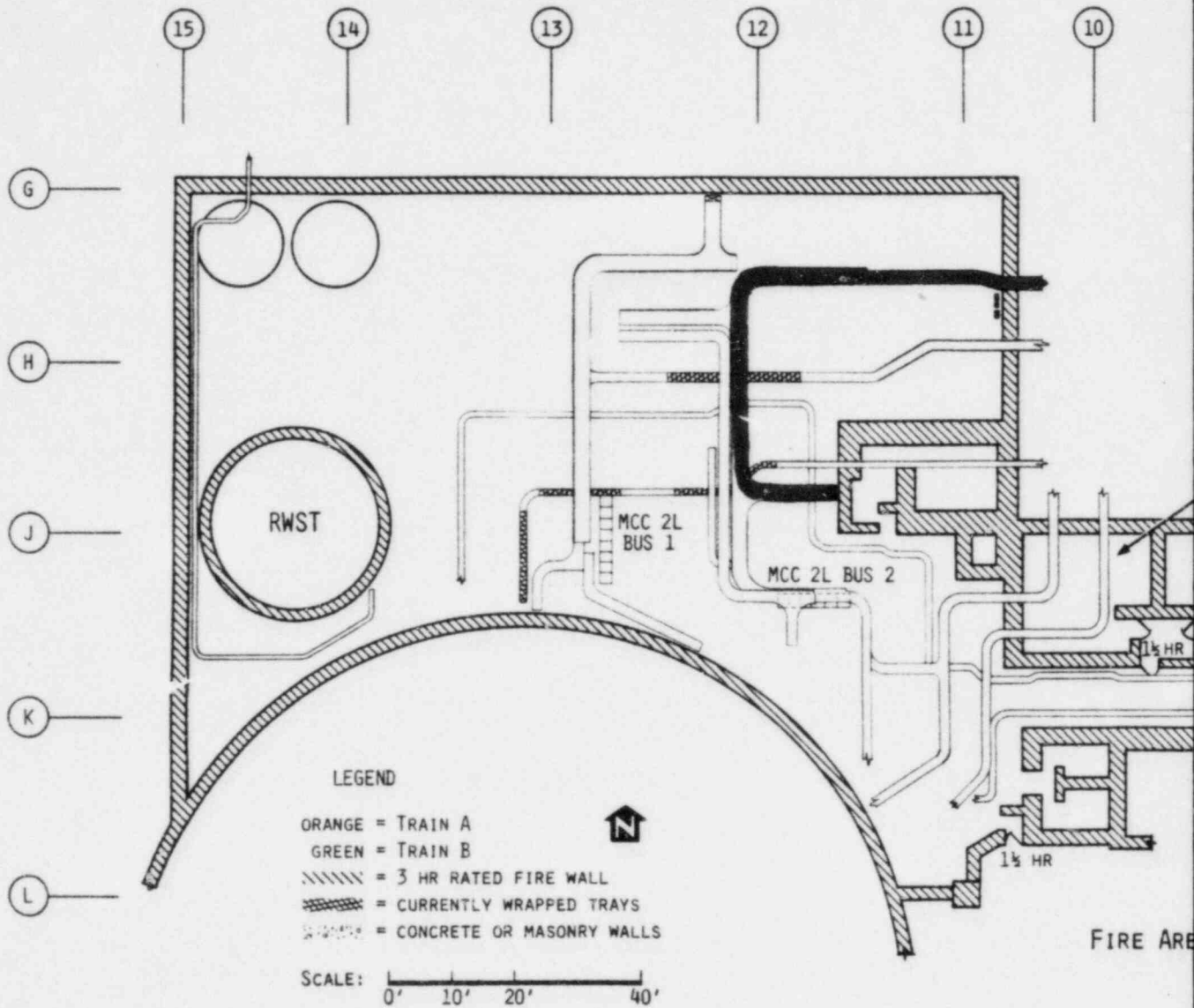


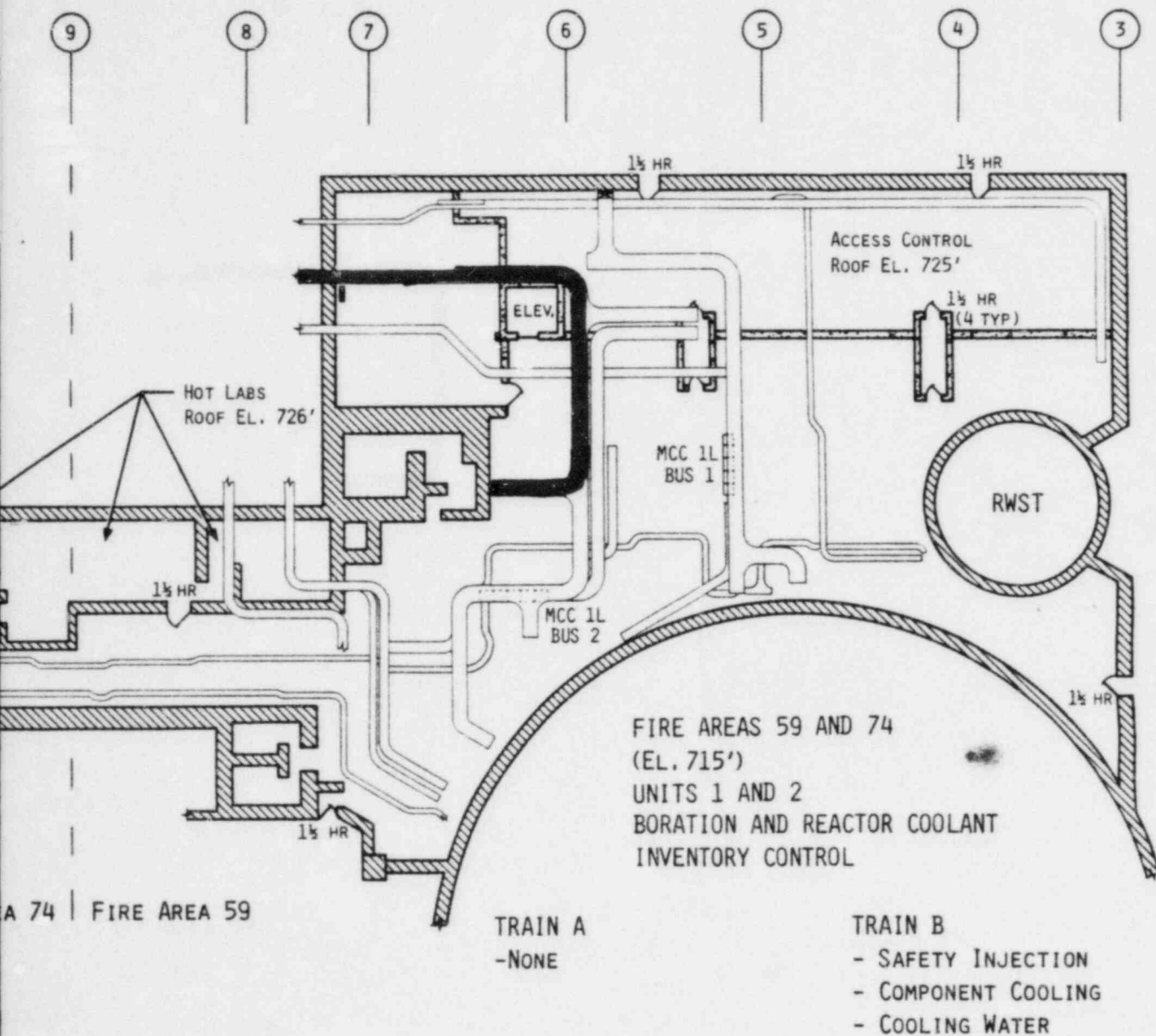


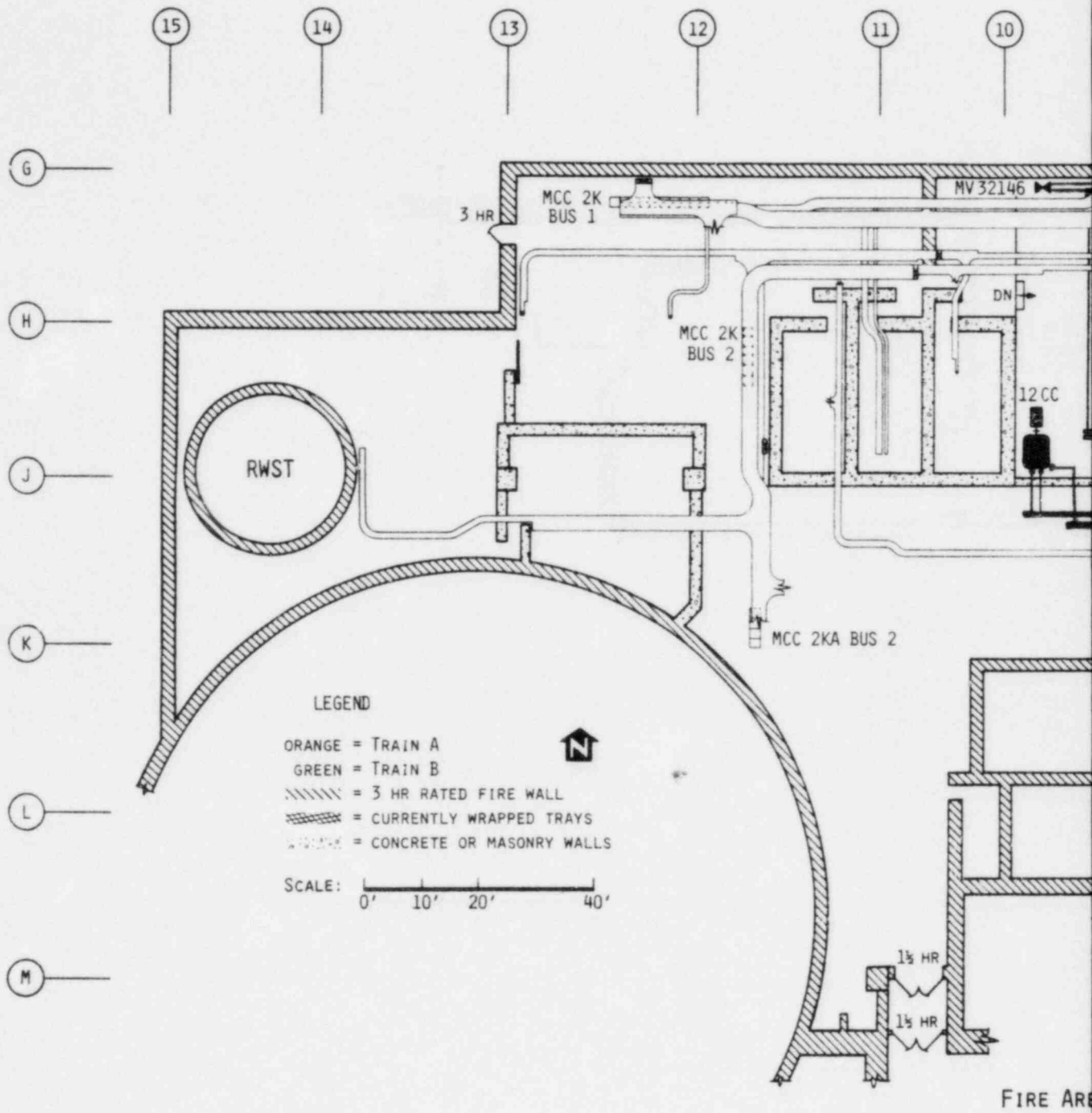


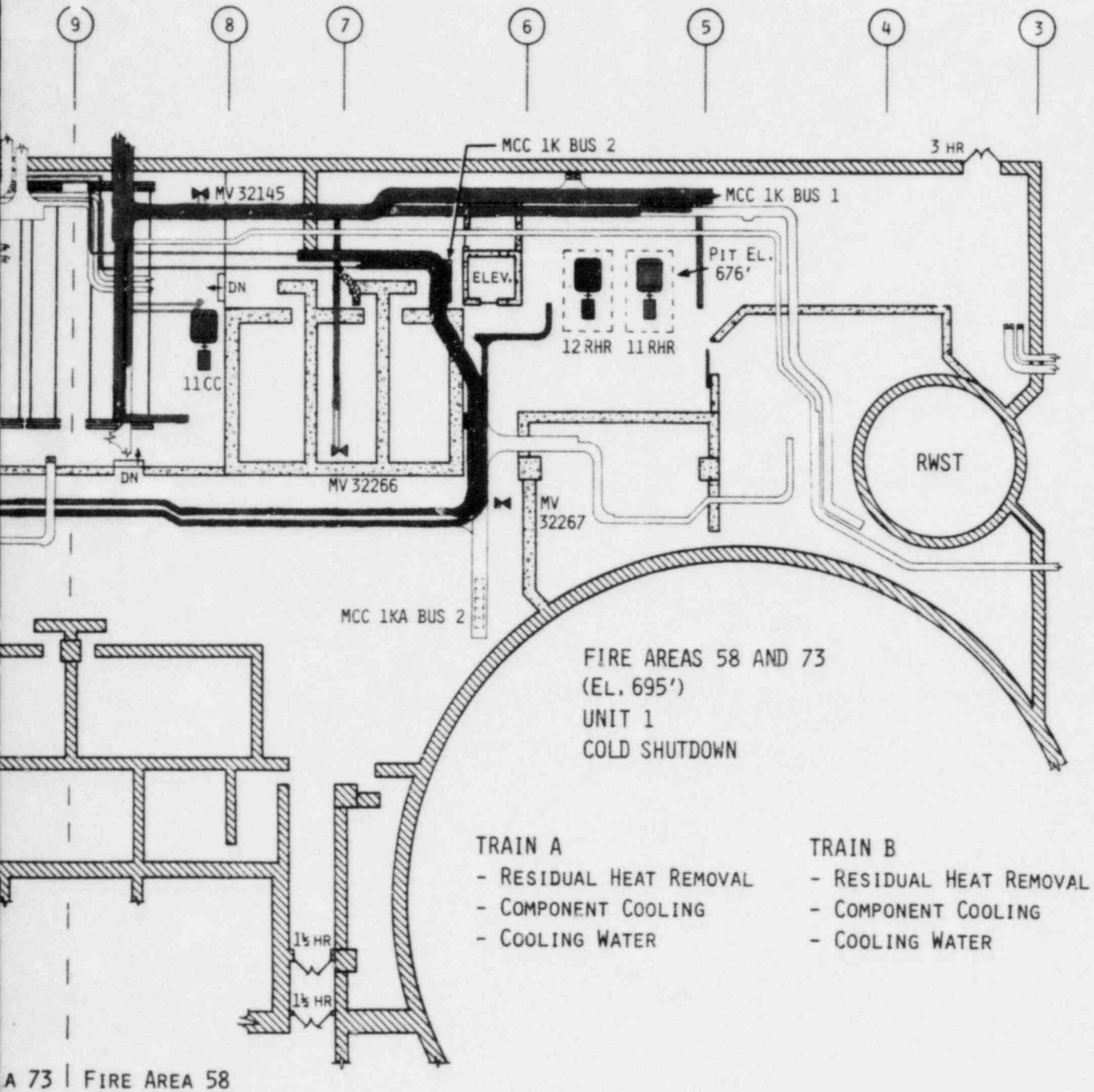
Dir of NRR
 Enclosure 3
 Figure 7
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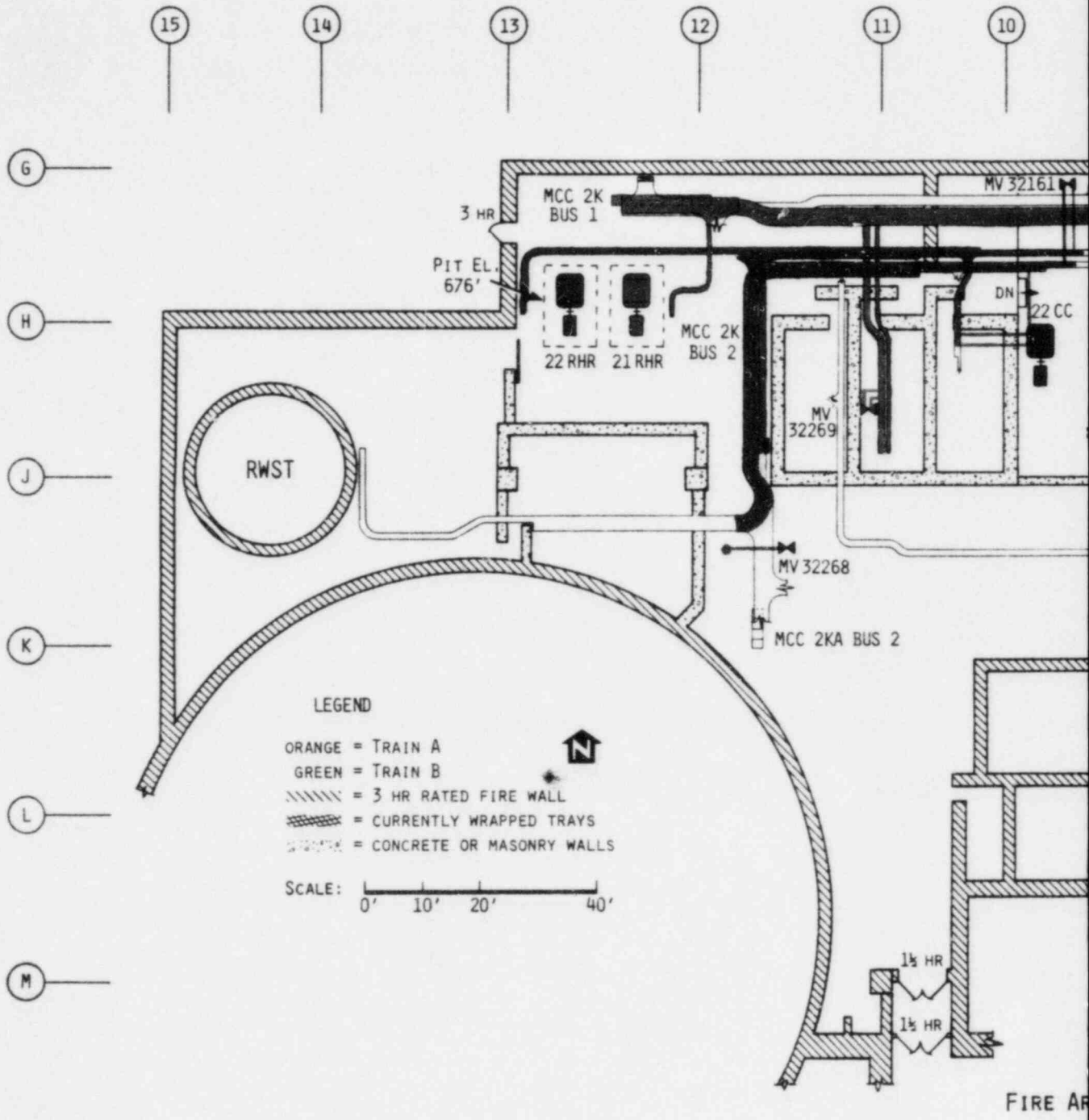




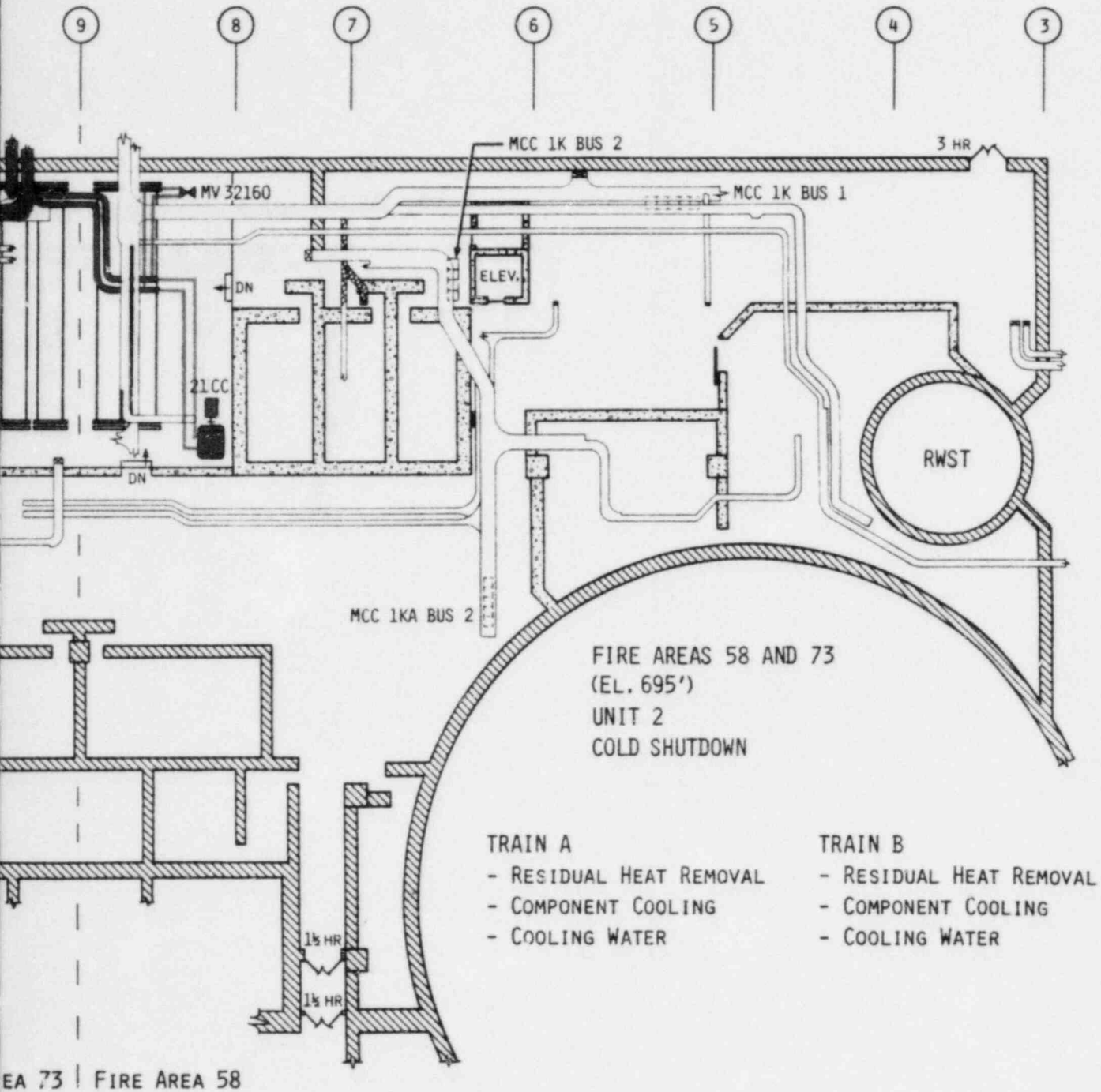


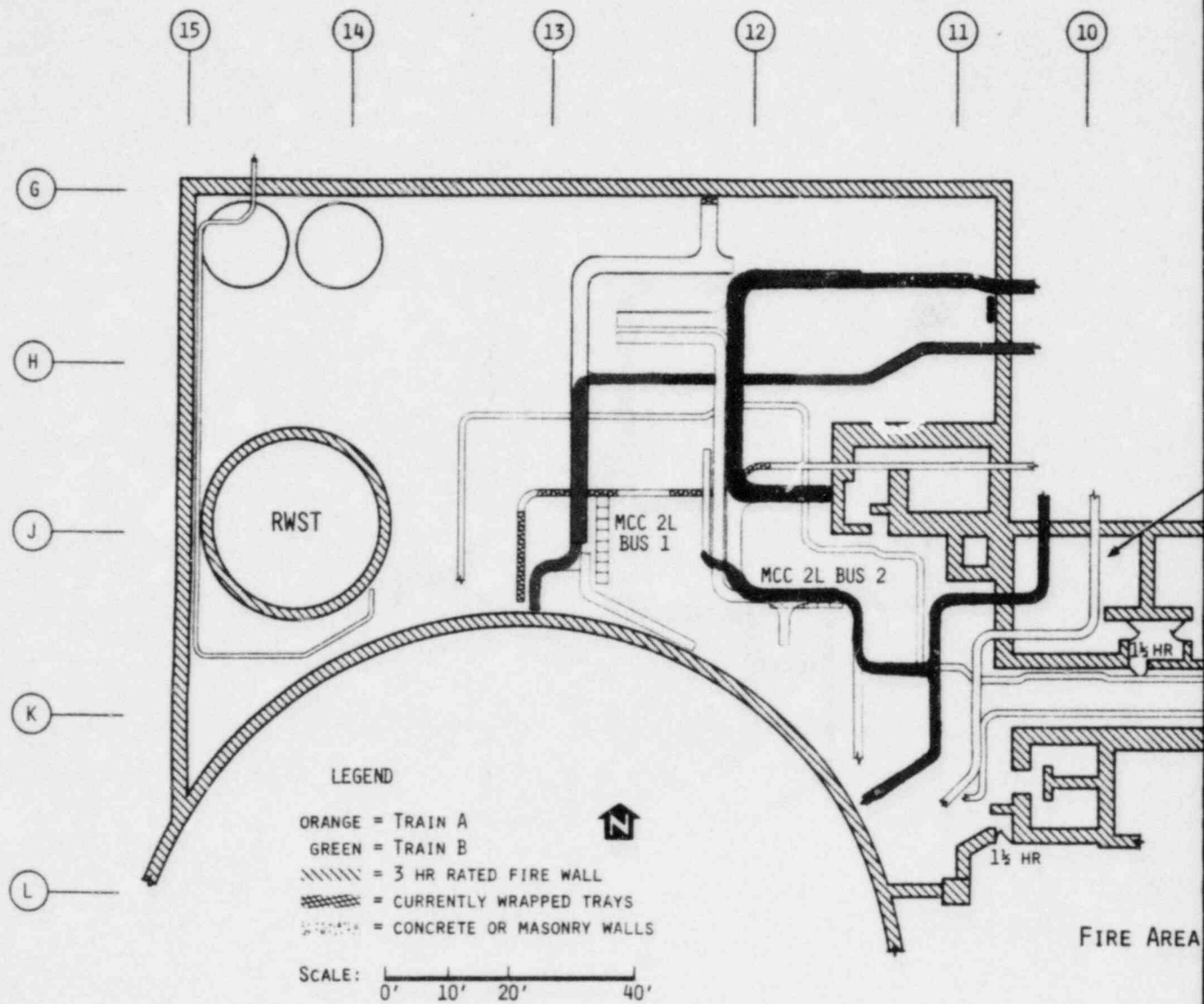


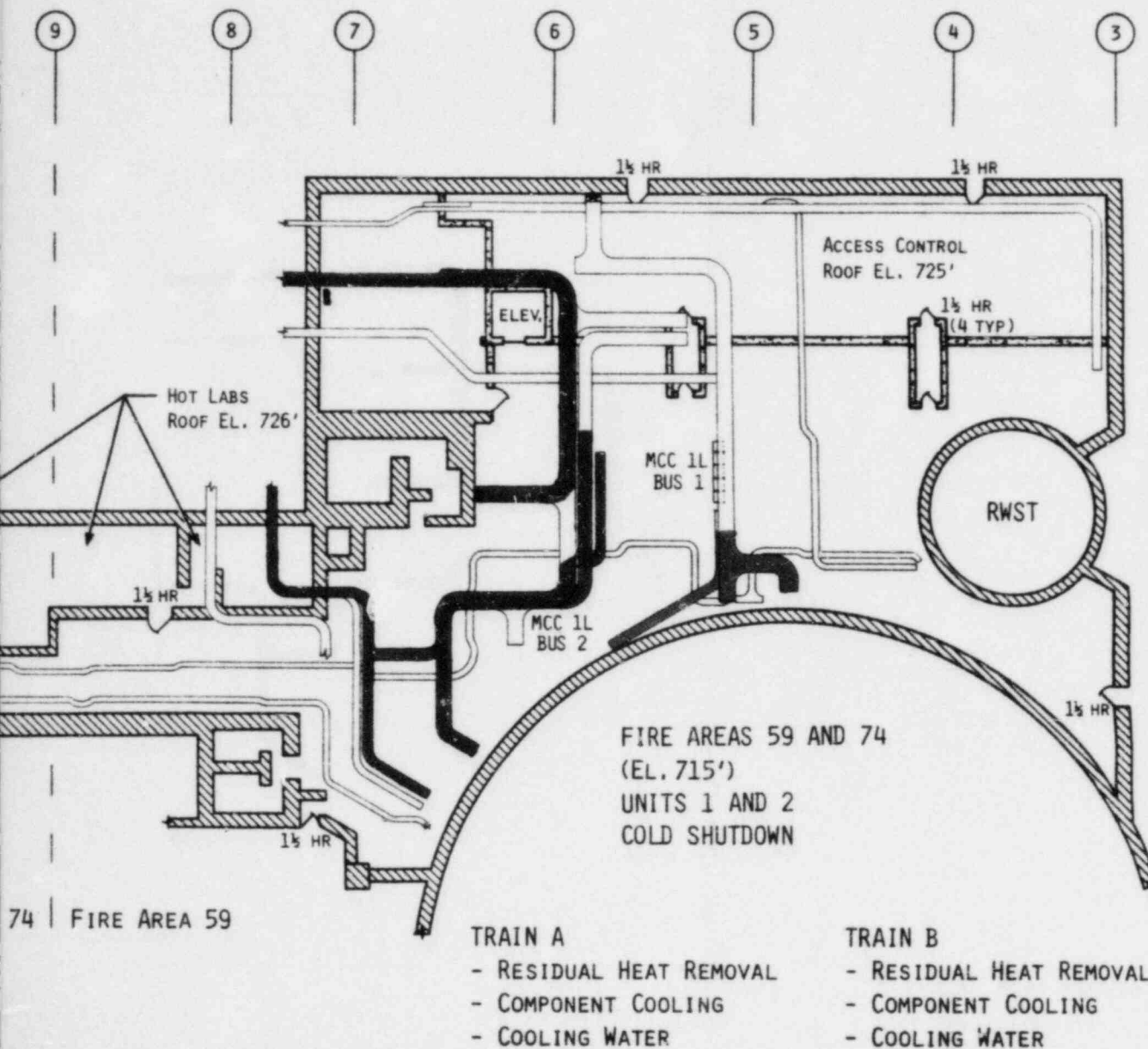


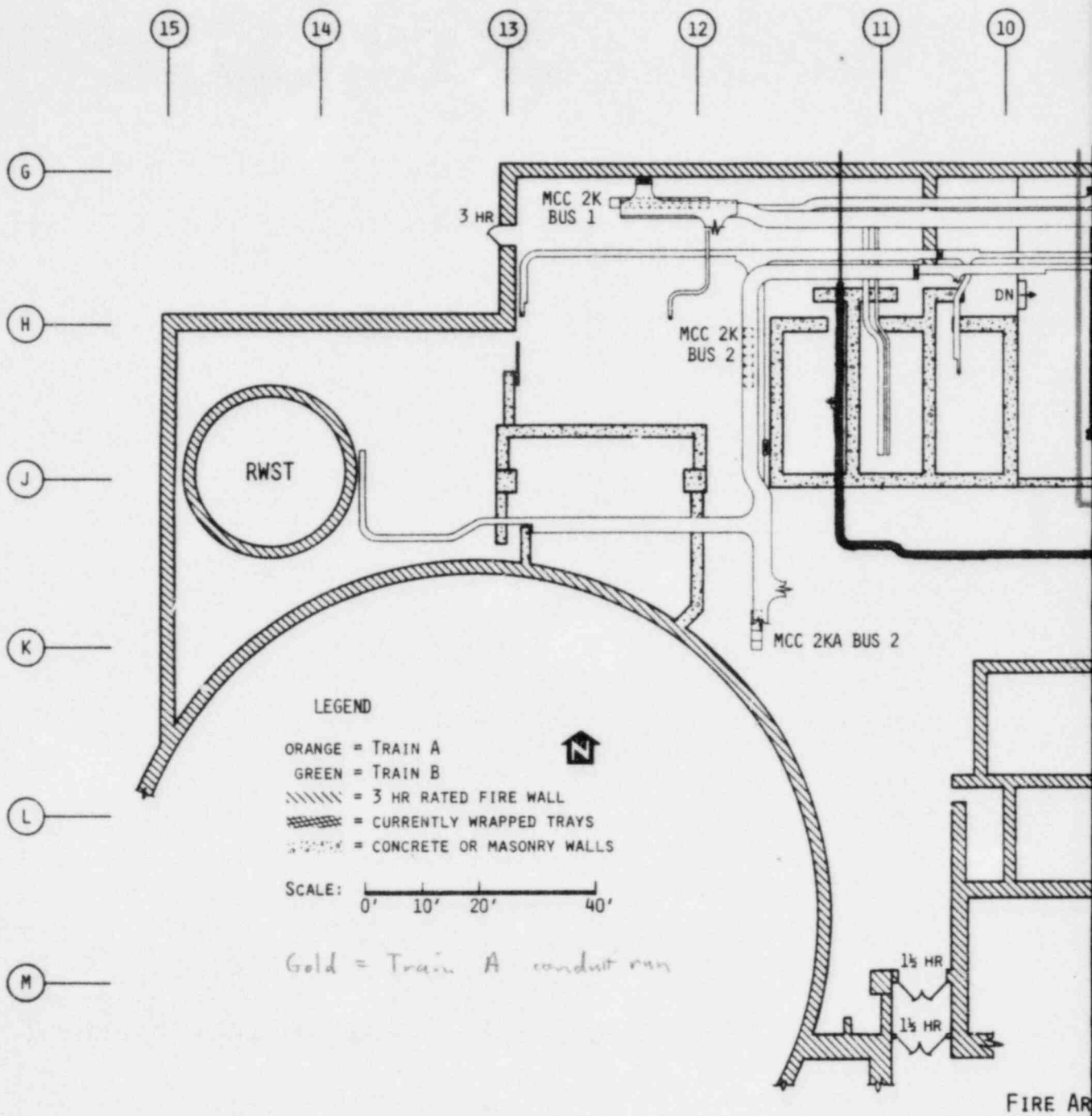


Dir of NRR
 Enclosure 3
 Figure 10
 May 16, 1983

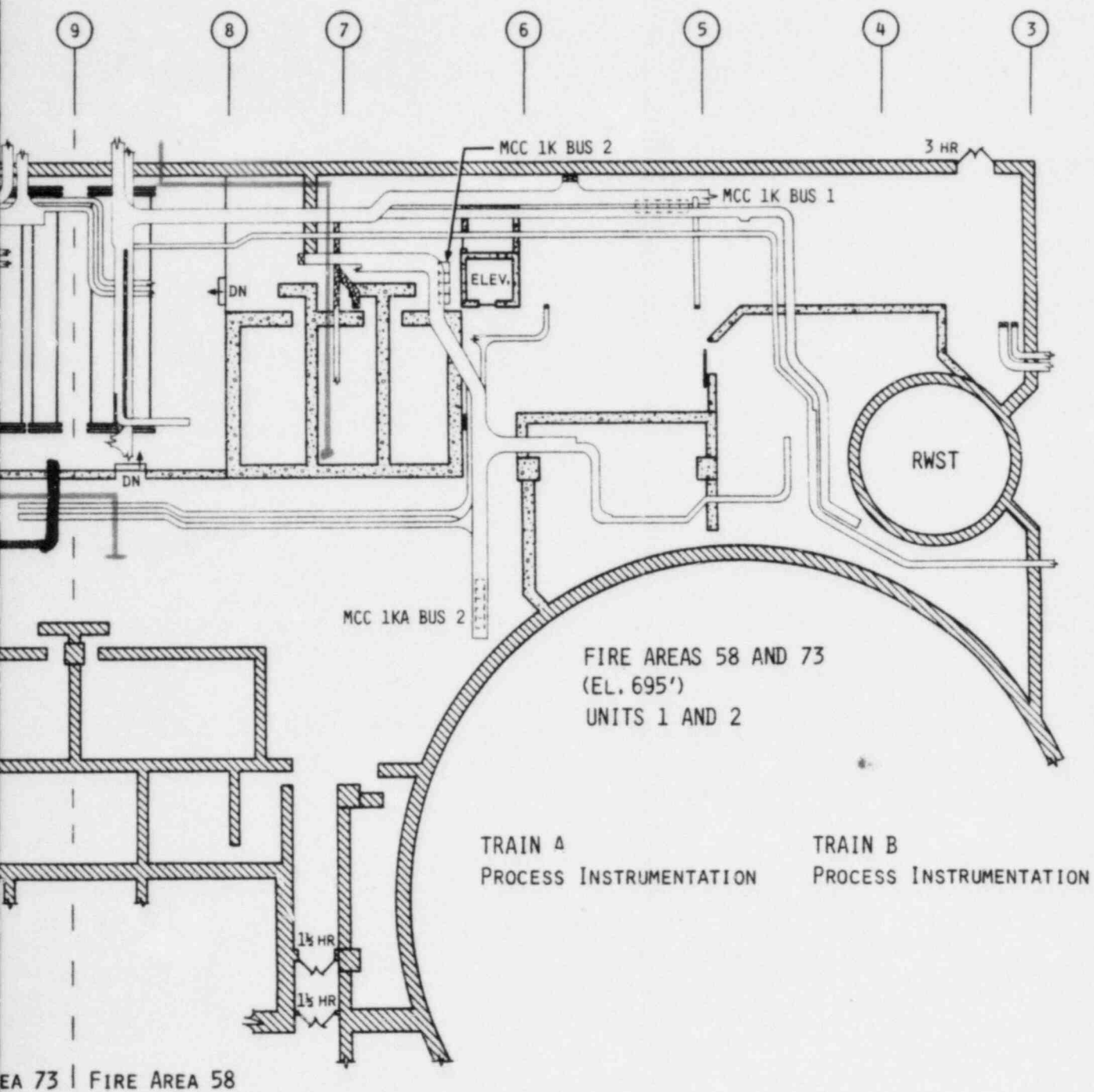


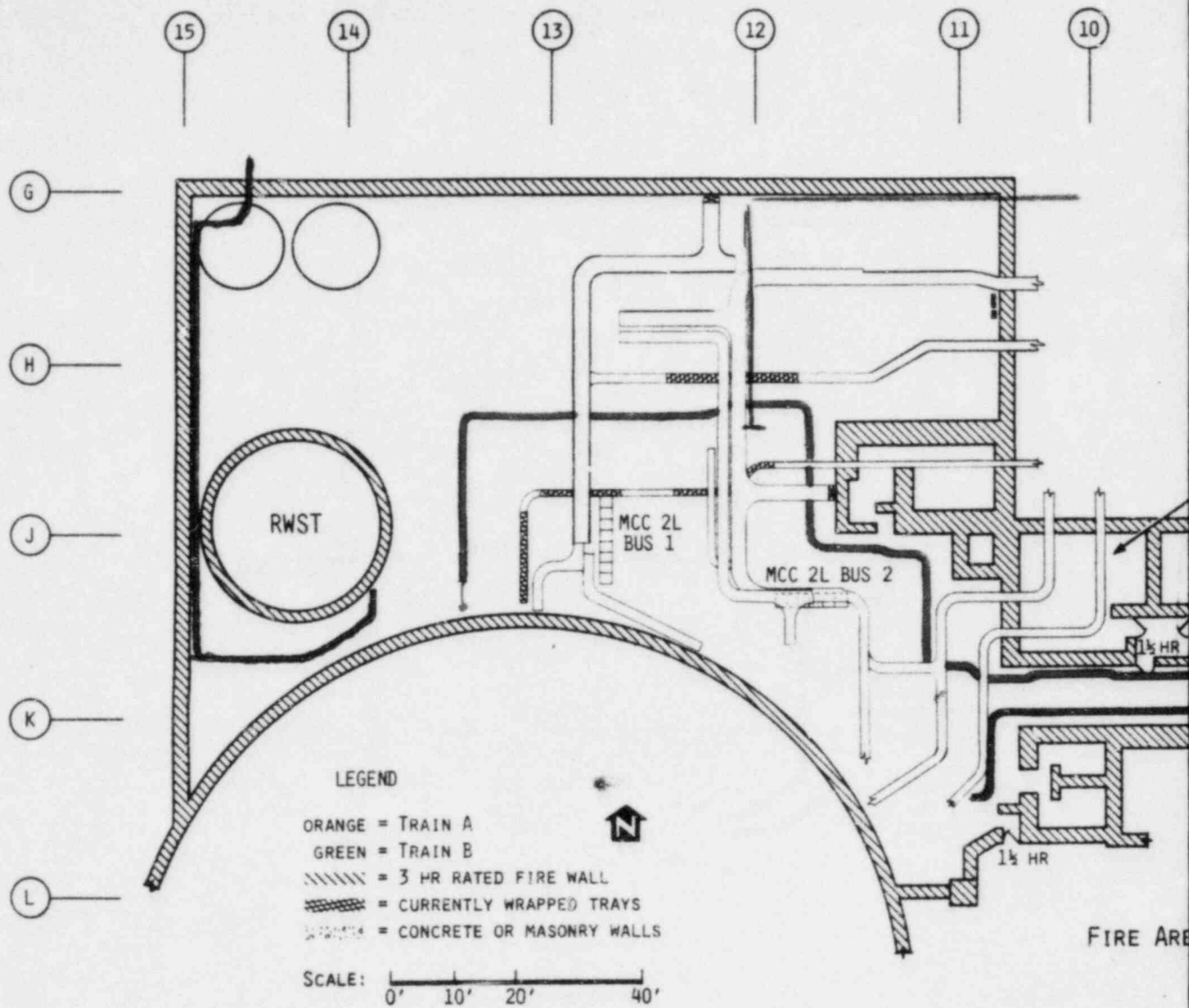


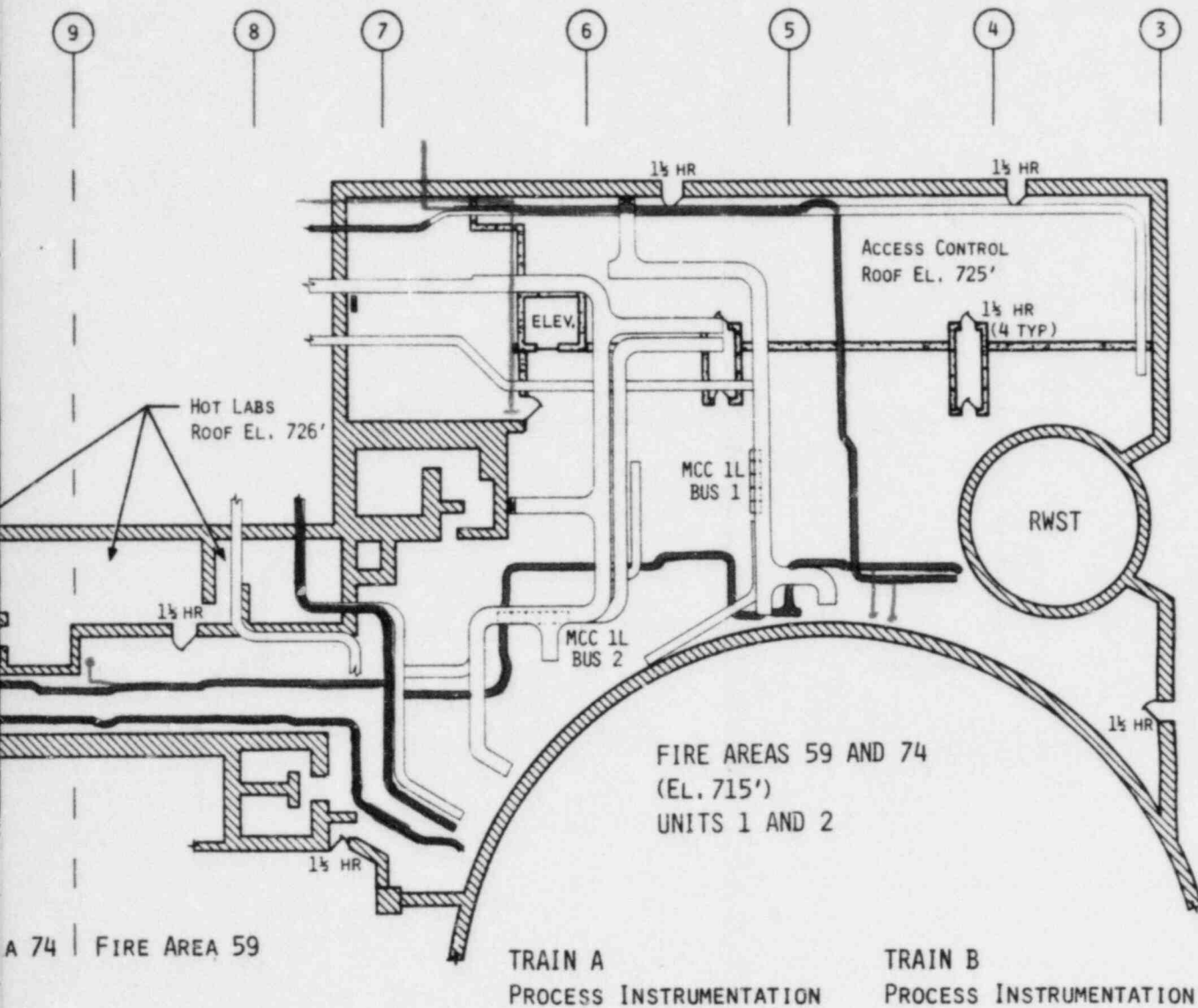


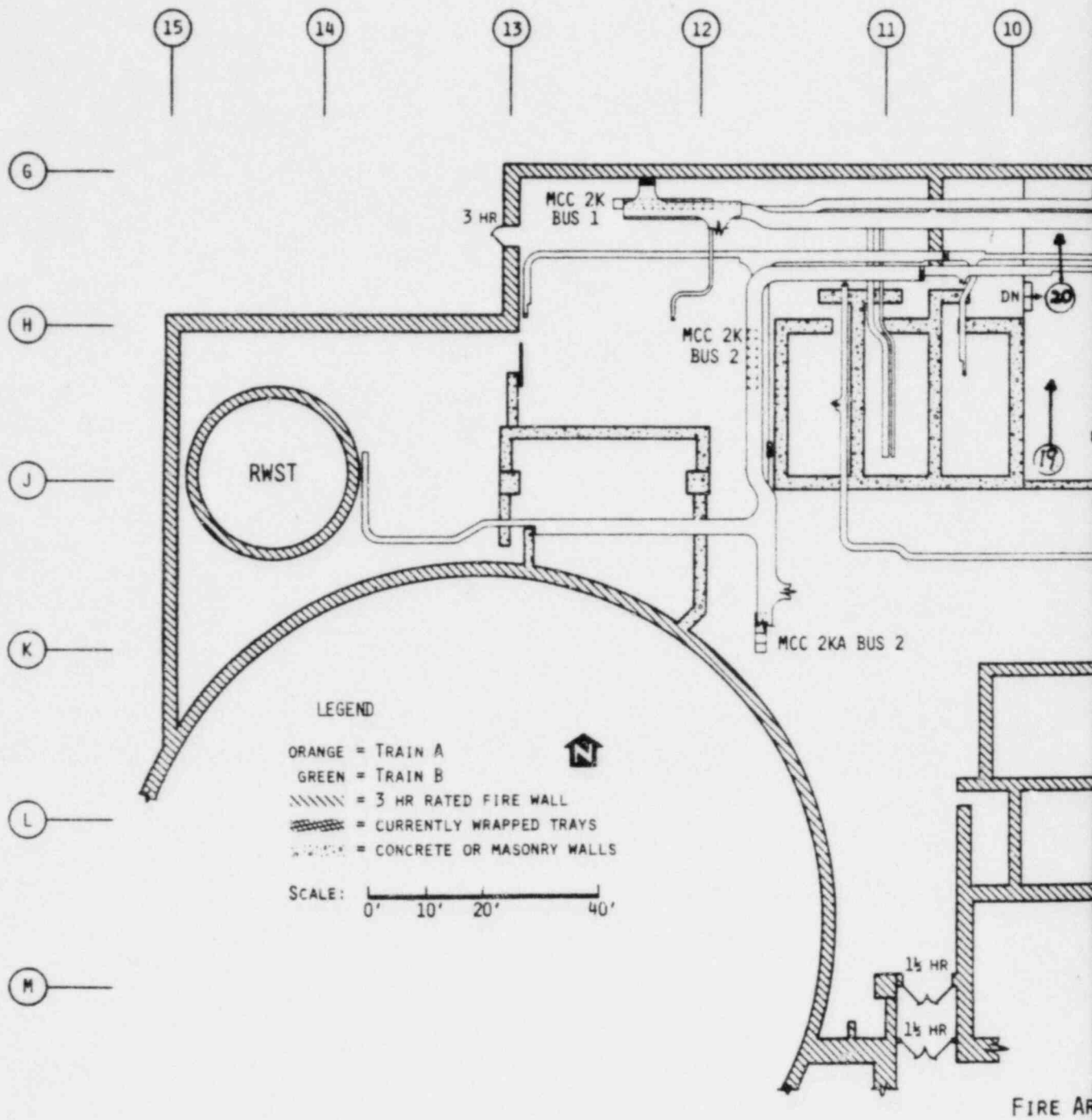


Dir of NRR
Enclosure 3
Figure 12
May 16, 1983









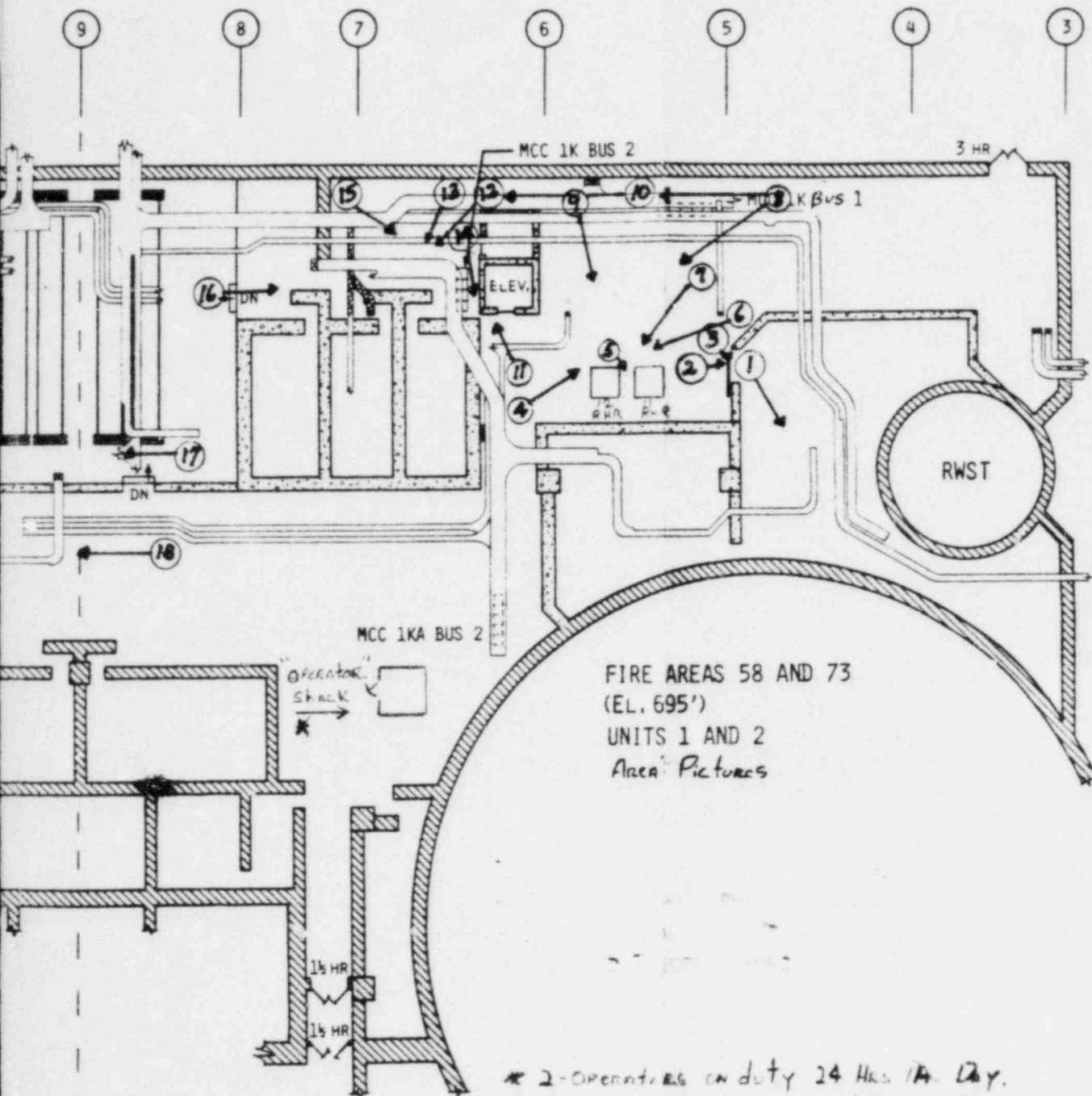
LEGEND

ORANGE = TRAIN A
 GREEN = TRAIN B
 [Hatched Pattern] = 3 HR RATED FIRE WALL
 [Cross-hatched Pattern] = CURRENTLY WRAPPED TRAYS
 [Dotted Pattern] = CONCRETE OR MASONRY WALLS

SCALE: 0' 10' 20' 40'

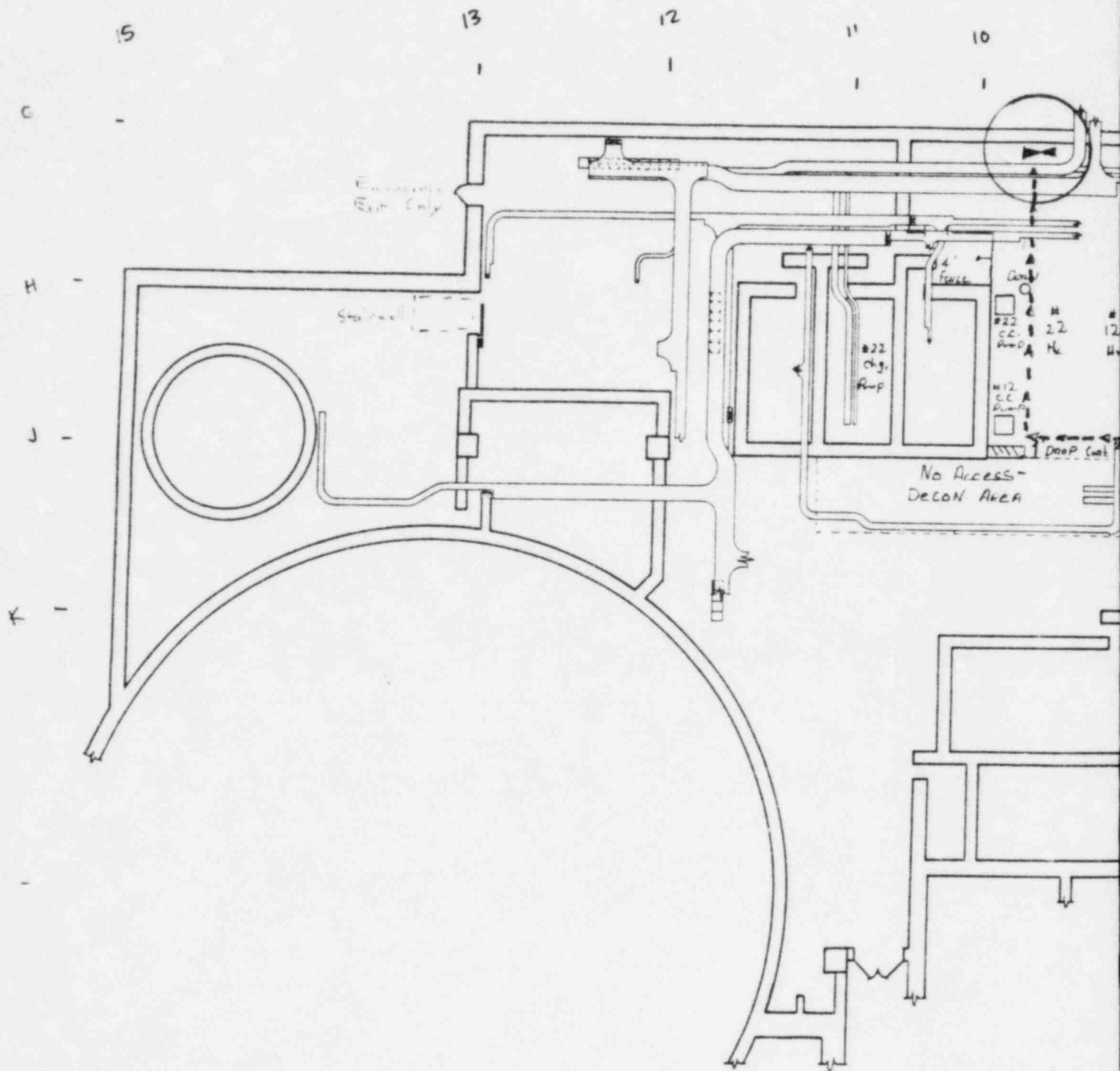
FIRE AR

Dir of NRR
Enclosure 4
Schedule A
May 16, 1983



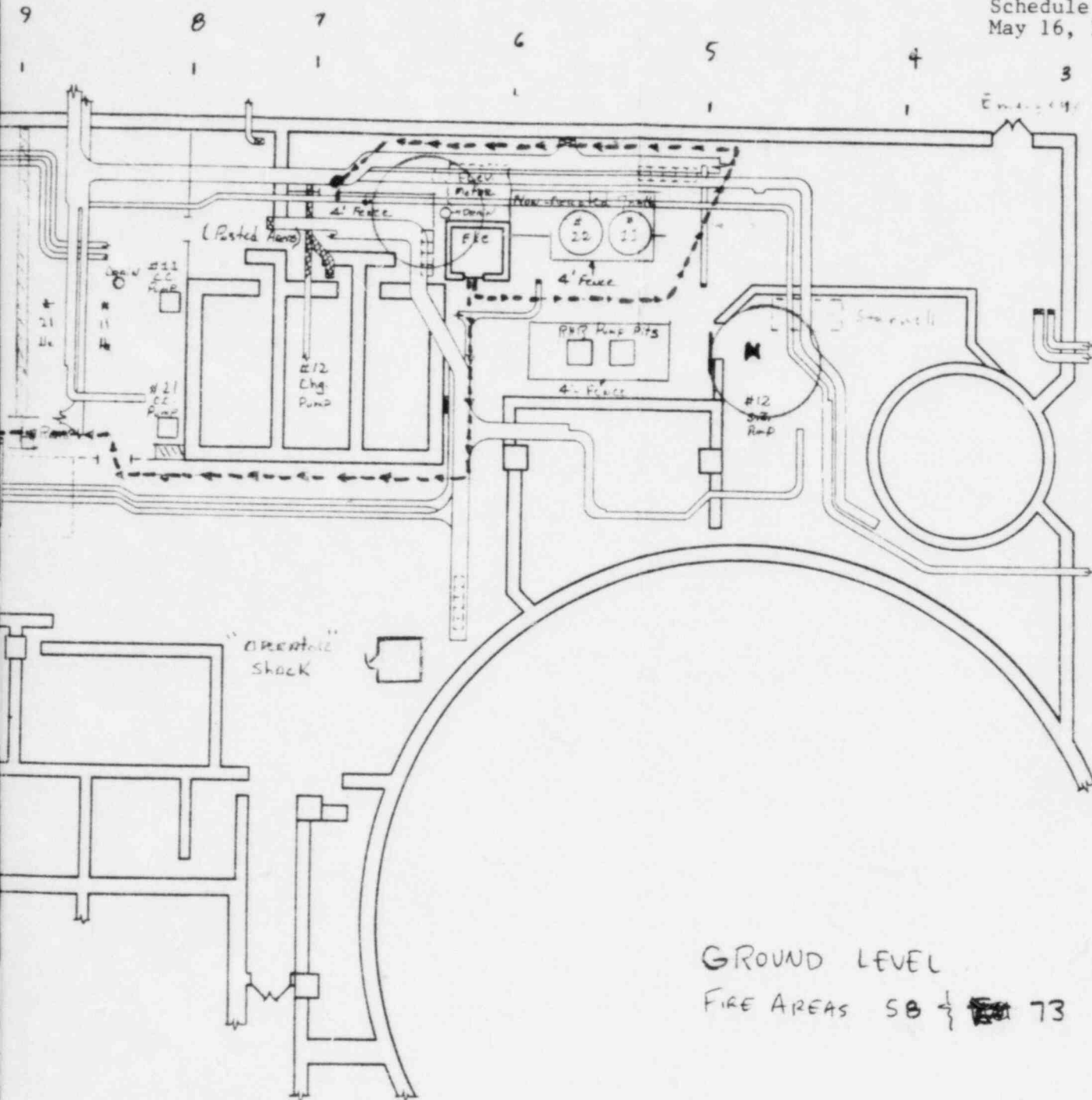
EA 73 | FIRE AREA 58

* 2-Operators on duty 24 Hrs. A Day.
Windows on ALL 4 Sides of "Shack".
Has View of ANYONE/Anything coming off Elevators.
(ONLY WAY to Move any Large Volume of combustible)



▲ Normal Entrance to C.L. Pump / H₂ Area
From Elevator

Estimated only



Dir of NRR
Enclosure 5
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PRAIRIE ISLAND UNIT 1 SSS & SPUR COMPONENTS REV(21)

SYSTEM COMPONENT	DESCRIPTION	TRN POWER	ACT	ZONE	RESOLUTION	CABLE NO
=====	=====	== =====	==	=====	=====	=====
AF #11	AFW PUMP (TURBINE DRIVEN)	A 125V/P191	*	32	SSS CABLES SELECTED	1CA-1108 1CA-1109 1CA-1110 1CA-1116 1CA-129 1CA-1107 1CA-126 1CA-127(1)
AF #12	AFW PUMP (MOTOR DRIVEN)	B 4KV/B16 125V/P12	*	31	OTHER SSS CABLES INCL WITH P12	16401-1 16401-A 16401-C 1CB-30 1CB-31 1CB-404 1CB-405 1A2-5A 1CB-32 1CB-34 16401-D
AF 1LT-487	STEAM GENERATOR LEVEL	A	*		OTHER CABLES INCL WITH 1PT-709	1CX-124 1CX-125
AF 1LT-488	STEAM GENERATOR LEVEL	B	*		OTHER CABLES INCLUDED WITH 1PT-710	1CR-127 1CR-128 1CR-140

SYSTEM COMPONENT =====	DESCRIPTION =====	TRN POWER ===	ACT ===	ZONE =====	RESOLUTION =====	CABLE NO =====
AF CV-31084	#11 S/G POW. OPER ATH REL. VAL A		*		RE-ROUTING OF SSS CABLES	1CF-237 1CY-140 1CF-238 1C-5246
AF CV-31089	#12 S/G POW. OPER ATH REL. VAL B		*		RE-ROUTING OF SSS CABLES	
AF MV-32016	STEAM ISO TO #11 AFWP	A	NOT ESSENT	60	MCC BRK LOCKED-OPEN NO SSS CABLES REQ'D.	
AF MV-32017	STEAM ISO TO #12 AFWP	B	NOT ESSENT	60	MCC BRK LOCKED-OPEN. NO SSS CABLES REQ'D	
AF MV-32238	DISCHARGE TO #11 S/G	A	MCC1A1	32	SSS CABLES SELECTED	1A1-7 1A1-7A 1CA-112 1CA-115 1CA-114C
AF MV-32239	DISCHARGE TO #12 S/G	A	MCC1A1	32	SSS CABLES SELECTED	1A1-8 1A1-8A 1CA-117 1CA-116
AF MV-32242	#11 S/G AFW ISO	A	NOT ESSENT		MCC BRK LOCKED-OPEN NO SSS CABLES REQ'D.	
AF MV-32243	#12 S/G AFW ISO	B	NOT ESSENT		MCC BRK LOCKED-OPEN. NO SSS CABLES REQ'D	
AF MV-32333	CONDENS. SUPPLY TO #11 AFWP	A	MCC1A1	32	SSS CABLES SELECTED	1A1-5 1A1-5A 1CA-111 1CA-110 1CA-107C

SYSTEM COMPONENT	DESCRIPTION	TRN POWER	ACT	ZONE	RESOLUTION	CABLE NO
=====	=====	== =====	==	=====	=====	=====
AF MV-32335	CONDENS. TO #12 AFWP	B MCC1A2		31	SSS CABLES SELECTED	1A2-6 1A2-6A 1CB-70 1CB-69 1CB-66
AF MV-32381	DISCHARGE TO #11 S/G	B MCC1A2		32	MANUAL ALIGNED & THROTTLED IF NESSRY	1A2-7 1A2-7A 1CB-54 1CB-53 1CB-51
AF MV-32382	DISCHARGE TO #12 S/G	B MCC1A2		32	MANUAL ALIGNED & THROTTLED IF NECESSARY	1A2-8 1A2-8A 1CB-56 1CB-55
AF P112	INST AC PNL	B	*		SSS CABLES SELECTED	ICR-140
AF P113	INSTR AC PNL	A	*		SSS CABLES SELECTED	ICX-139
AF SV-33285/CV-31153	#11 AFWP BYPASS (AOV & SOV)	A	NOT ESSENT *		CABLES INCLUDED WITH #11 AFWP	
AF SV-33286/CV-31154	#12 AFWP BYPASS (AOV & SOV)	B	NOT ESSENT *		CABLES INCLUDED WITH #12 AFWP	
AF SV-33287/CV-31681	COOL WTR TO #11 AFWP (AOV&SOV)	A	NOT ESSENT *		CABLES INCLUDED WITH #11 AFWP	
AF SV-33288/CV-31682	COOL WTR TO #12 AFWP (AOV&SOV)	B	NOT ESSENT *		CABLES INCLUDED WITH #12 AFWP	
AF SV-33299/CV-31998	#11 AFWP STEAM INLET AOV & SOV	A	NOT ESSENT *		CABLES INCLUDED WITH #11 AFWP	
CC #11	COMPONENT COOLING PUMP	A	4KV/815 * 125V/P11	58	OTHER CABLES INCLUDED PNL12	15405-1 15405-A

SYSTEM COMPONENT =====	DESCRIPTION =====	TRN POWER ===	ACT ===	ZONE =====	RESOLUTION =====	CABLE NO =====
CC #12	COMPONENT COOLING PUMP	B 4KV/316 125V/P12	*	73	SSS CABLES SELECTED/CABLES INCLUDE PNL12	16403-1 16403-E 16403-B 16403-A 16403-D 1CB-71
CC MV-32089	#11 RCP THERMAL BARR INLET ISO A	NOT ESSENT			MCC BRK LOCKED-OPEN. NO SSS CABLES REQ'D	
CC MV-32090	#11 RCP THERM BARR OUTLET ISO A	NOT ESSENT			MCC BRK LOCKED-OPEN. NO SSS CABLES REQ'D	
CC MV-32091	#12 RCP THERMAL BARR INLET ISO B	NOT ESSENT			MCC BRK LOCKED-OPEN. NO SSS CABLES REQ'D	
CC MV-32092	#12 RCP THERM BARR OUTLET ISO B	NOT ESSENT			MCC BRK LOCKED-OPEN. NO SSS CABLES REQ'D	
CC MV-32093	#11 RHR HX COOL WTR ISO A	NOT ESSENT *			MANUAL OPERATION ASSUMED	
CC MV-32094	#12 RHR HX COOL WTR ISO B	NOT ESSENT *			MANUAL OPERATION ASSUMED	
CC MV-32200	#11 SURGE TANK TO #11 CC PUMP A	NOT ESSENT			MANUALLY ALIGNED IF NECESSARY	
CC MV-32201	#12 SURGE TANK TO #12 CC PUMP B	NOT ESSENT			MANUALLY ALIGNED IF NECESSARY	
CC MV-32266	LOOP "B" COMP. COOLING ISO A	MCC1K1	*	58	SSS CABLES SELECTED (SPUR OPER ONLY)	1K1-33 1K1-33A 1CA-680 1CA-679
CC MV-32267	LOOP "A" COMP. COOLING ISO B	MCC1K2	*	58	SS CABLES SELECTED (SPUR OPER ONLY)	1K2-28 1K2-20A 1CB-530 1CB-531

SYSTEM COMPONENT	DESCRIPTION	TRM POWER	ACT	ZONE	RESOLUTION	CABLE NO
=====	=====	== =====	==	==	=====	=====
CC SV-31181/CV-31246	#12RCP THERM BARR ISO(AOV&SOV)	B	NOT ESSENT		PROCEDURAL CONTROL	
CC SV-33180/CV-31245	#11RCP THERM BARR ISO(AOV&SOV)	A	NOT ESSENT		PROCEDURAL CONTROL	
DC #11 BAT	#11 BATTERY	A	#11 BAT-CH *		OTHER SSS CABLES INCLUDED WITH PNL 11	1DCA-8 1DCA-9
DC #11 BAT-CH	#11 BATTERY CHARGER	A	MCC 1AC1 *		OTHER SSS CABLES INCLD WITH MCC 1AC1	1AC1-8 1DCA-70 1DCA-71
DC #12 BAT	#12 BATTERY	B	#12 BAT-CH *		OTHER SSS CABLES INCLUDED WITH PNL 12	1DCB-6 1DCB-7
DC #12 BAT-CH	#12 BATTERY CHARGER	B	MCC 1AC2 *		OTHER SSS CABLES INCLUDED WITH MCC 1AC2	1AC2-7 1DCB-69 1DCB-70
DC #12 INV	#12 INVERTER	B	125V P12 *		SSS CABLES INCLD WITH PNL 12 & MCC 1AC2	1CR-99
DC #13 INV	#13 INVERTER	A	125V P11 *		SSS CABLES INCLD WITH PNL 11 & MCC 1AC1	1CY-99
DC #16 INV	#16 INVERTER	B	125V P12 *		SSS CABLES SELECTED	1AC2-3 1DA-44
DC P11	125V DC PNL11	A	#11 BAT *		SSS CABLES SELECTED	1DCA-3 1DCA-4 1DCA-72 1DCA-1 1DCA-6 1DCA-7 1DCA-10 1DCA-11

SYSTEM COMPONENT	DESCRIPTION	TRN POWER	ACT	ZONE	RESOLUTION	CABLE NO
=====	=====	==	==	==	=====	=====
DC P12	125V DC PNL 12	B #12 BAT	*		SSS CABLES SELECTED	1DCB-5 1DCB-10 1DCB-4 1DCB-9 1DCB-3 1DCB-1 1DCB-18 1DCB-54
DC P15	125V DC PNL 15	B P11	*		SSS CABLES INCLUDED WITH PNL 11	
DC P16	125V DC PNL 16	B P12	*		SSS CABLES INCLUDED WITH PNL 12	
DC P18	125V DC PNL 18	B P12	*		SSS CABLES INCLD WITH PNL 12	
DC P19	125V DC PNL 19	A P11	*		SSS CABLES SELECTED	1DCA-72
DC P191	125V DC PNL 191	A P19	*		SSS CABLES SELECTED	1DCA-73 1DCA-74
EA 4KV BUS15	4KV SWGR BUS15	A D/G D1	*		SSS CABLES INCLD WITH D/G D1 7 ITR #101	
EA 4KV BUS16	4KV SWGR BUS16	B D/G D2	*		OTHER SSS CABLES INCL WITH #102 ITR	16407-B
EB #101	4KV/480V TRANSFORMER	A 4KV/B15	*		SSS CABLES SELECTED	15406-1
EB #102	4KV/480V TRANSFORMER	B 4KV/B16	*		SSS CABLES SELECTED	16402-1
EB #1A1	MCC 1A BUS1	A B110	*		SSS CABLES SELECTED	112-1 1A1-10
EB #1A2	MCC 1A BUS2	B B120	*		SSS CABLES SELECTED	122-1 1A2-9

SYSTEM COMPONENT =====	DESCRIPTION =====	TRN POWER === =====	ACT ===	ZONE =====	RESOLUTION =====	CABLE NO =====
EB #1AB1	MCC 1AB BUS 1	A MCC 1A1	*		SSS CABLES INCL WITH #121(CL)	1A1-4 1A1-12
EB #1AB2	MCC 1AB BUS 2	B MCC1A2	*		SSS CABLES INCL WITH #122(CL)	1A2-2 1A2-10
EB #1AC1	MCC 1AC BUS1	A MCC 1A1	*		SSS CABLES SELECTED	1AC1-1 1AC1-7 1AC1-2
EB #1AC2	MCC 1AC BUS2	B MCC 1A2	*		SSS CABLES SELECTED	1AC2-1 1AC2-2 1AC2-6
EB #1K1	MCC1K BUS1	A B110	*		SSS CABLES SELECTED	113-1
EB #1K2	MCC 1K BUS2	B B120	*		SSS CABLES SELECTED	123-1 1K2-1
EB #1KA2	MCC 1KA BUS2	B MCC 1K2	*		SSS CABLES INCLUDED WITH MCC 1K2	
EB 480V B110	480V SWGR BUS110	A 4KV/B15	*		SSS CABLES INCLD ITR #101 MCC & PNL11	
EB 480V B120	480V SWGR BUS120	B 4KV/B16	*		SSS CABLES INCLD ITR #102, MCC & PNL 12	
EB P134	DISTR PNL 134	A MCC1AB1	*		SSS CABLES INCL WITH #121(D/G) #122(D/G)	
EB P135	DISTR PNL 135	B MCC1AB2	*		SSS CABLES INCL WITH #123(D/G) #124(D/G)	
EB P136	DISTR PNL 136	A MCC 1K1	*		SSS CABLES INCL WITH #121(CL)	1AB1-13 1AB1-17
EB P137	DISTR PNL 137	B MCC 1K2	*		SSS CABLES INCL WITH #122(CL)	1AB2-12 1A2-16 1AB2-18

SYSTEM COMPONENT	DESCRIPTION	TRM POWER	ACT	ZONE	RESOLUTION	CABLE NO
=====	=====	== =====	==	=====	=====	=====
PS 1LT-424	PRESSURIZER LEVEL	B LATER	*		SSS CABLES SELECTED	ICX-34 ICX-34 ICX-116 ICF-83 ICF-31 ICF-234 ICF-36 IC-2246 IC-225 IC-1905
PS 1LT-433	PRESSURIZER LEVEL	A LATER	*		SSS CABLES SELECTED	ICF-31 ICF-234 ICF-36 IC-2246 IC-225 IC-1905
RC 1EMA	INSTR AC PNL	A	*		SSS CABLES SELECTED	1EM-5
RC 1EMB	INSTR AC PNL	B	*		SSS CABLES SELECTED	1EMH-5
RC 1PT-709	RCS LOOP A PRESSURE	A	*		SSS CABLES SELECTED	ICX-118 ICX-119 1EM-5 1EM-*
RC 1PT-710	RCS LOOP B PRESSURE	B	*		SSS CABLES SELECTED	ICX-121 ICX-122 1EM-*
RC 1TE-450A	RCS LOOP A HOT LEG TEMP	A	*		SSS CABLES SELECTED	1EM-10 ICX-130 ICF-163 ICX-131 ICF-162 1EM-7 1EM-11

SYSTEM COMPONENT =====	DESCRIPTION =====	TRN POWER == =====	ACT ==	ZONE =====	RESOLUTION =====	CABLE NO =====
RC ITE-450B	RCS LOOP B COLD LEG TEMP	A	*		OTHER CABLES INCLUDED WITH ITE-450A	1CX-132 1CF-103 1CX-133 1CF-101
RC ITE-451A	RCS LOOP A HOT LEG TEMP	B	*		SSS CABLES SELECTED	1CR-131 1CR-132 1EM-8 1EM-12
RC ITE-451B	RCS LOOP B COLD LEG TEMP	B	*		OTHER CABLES INCLUDED WITH ITE-451A	1CR-133 1CR-134
RC CV-31226	LETDOWN ISOLATION	NOT ESSENT *			PROCEDURAL CONTROL	
RC CV-31231	PRESSURIZER PORV	NOT ESSENT			PROCEDURAL CONTROL (SPUR OPER ONLY)	
RC CV-31232	PRESSURIZER PORV	NOT ESSENT			PROCEDURAL CONTROL (SPUR OPER ONLY)	
RC CV-31255	LETDOWN ISOLATION	NOT ESSENT *			PROCEDURAL CONTROL	
RC RV-105	REACTOR COOLANT GAS VENT	NOT ESSENT			PROCEDURAL CONTROL (SPUR OPER ONLY)	
RC RV-106	REACTOR COOLANT GAS VENT	NOT ESSENT			PROCEDURAL CONTROL (SPUR OPER ONLY)	
RH #11	RHR PUMP	A 4KV/B15 125V/P11	*		OTHER CABLES INCLUDED WITH PNL 11	15404-1 15404-C 1CA-52 15404-D 1CA-98
RH #12	RHR PUMP	B 4KV/B16 125V/P12	*		OTHER CABLES INCLUDED WITH PNL 12	16404-1 16404-C 1CB-36 1CB-295

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PRAIRIE ISLAND UNIT 1 SSS & SPUR COMPONENTS REV(2)

SYSTEM COMPONENT	DESCRIPTION	TRM POWER	ACT	ZONE	RESOLUTION	CABLE NO
=====	=====	===	=====	=====	=====	=====
RH CV-31235	#11 RHR HX FLOW CONTROL AOV	A	NOT ESSENT		PROCEDURAL CONTROL	
RH CV-31236	#12 RHR HX FLOW CONTROL AOV	B	NOT ESSENT		PROCEDURAL CONTROL	
RH MV-32064	RCS INJECTION ISO	A	NOT ESSENT *		MANUAL OPERATION ASSUMED	
RH MV-32065	RCS INJECT ISO	B	NOT ESSENT *		MANUAL OPERATION ASSUMED	
RH MV-32164	RHR/RCS LOOP A ISO	A	NOT ESSENT *		MCC BKR LOCKED-OPEN MANUAL OPER ASSUMED	
RH MV-32165	RHR/RCS LOOP A ISO	A	NOT ESSENT *		MANUAL OPERATION ASSUMED	
RH MV-32230	RHR/RCS LOOP B ISO	B	NOT ESSENT *		MCC BKR LOCKED-OPEN MANUAL OPER ASSUMED	
RH MV-32231	RHR/RCS LOOP B ISO	B	NOT ESSENT *		MANUAL OPERATION ASSUMED	
SA #122	AIR COMPRESSOR 1A1	A	1A2	T	SSS CABLES SELECTED	1A2-4 1A2-4A 1C-781 1C-780 1C-785 1C-784
SA SV-33079	COOL WATER TO #122 AIR COMP	B	NOT ESSENT *		SSS CABLES INCLUDED WITH #122 AIR COMP	
SI #12	SAFETY INJECTION PUMP	B	4KV/B14 125V/P12	*	OTHER CABLE INCL WITH PNL 12	16405-1 16405-B 16405-A
SI MV-32068	LOOP B COLD LEG INJECTION ISO	B	NOT ESSENT		MCC BRK LOCKED-OPEN. NO SSS CABLES REQ'D	
SI MV-32070	LOOP A COLD LEG INJECTION ISO	A	NOT ESSENT		MCC BRK LOCKED-OPEN. NO SSS CABLES REQ'D	
SI MV-32071	ACCUMULATOR #11 ISO	A	NOT ESSENT *		MANUAL OPERATION ASSUMED(SPUR OPER ONLY)	
SI MV-32072	ACCUMULATOR #12 ISO	B	NOT ESSENT *		MANUAL OPERATION ASSUMED(SPUR OPER ONLY)	

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SYSTEM COMPONENT		DESCRIPTION	TRN POWER	ACT	ZONE	RESOLUTION	CABLE NO
=====	=====	=====	== =====	==	=====	=====	=====
SI	MV-32073	COLD LEG INJECTION ISO	B	NOT ESSENT		MCC BRK LOCKED-OPEN. NO SSS CABLES REQ'D	
SI	MV-32080	RWST TO #12 SI PUMP ISO	B	480V/MCC *		SSS CABLES SELECTED	1KA2-10 1KA2-10A 1KA2-11C 1KA2-17 1KA2-10B 1CB-110
				1KA2			
SI	MV-32163	#12 SI PUMP SUCTION ISO	B			SSS CABLES SELECTED (SPUR OPER ONLY)	
VC	#12	CHARGING PUMP	A	480V *		SSS CABLES SELECTED	1K1-21 1K1-21A 1CA-93 1CA-92(1 1CA-91 1K1-21B
				MCC/1K1			
VC	CV-31210	EXCESS LETDOWN ISO		NOT ESSENT		PROCEDURAL CONTROL (SPUR OPER ONLY)	
VC	CV-31330	EXCESS LETDOWN ISO		NOT ESSENT		PROCEDURAL CONTROL (SPUR OPER ONLY)	
VC	CV-32061	VCT ISOLATION		NOT ESSENT *		MANUAL OPERATION ASSUMED (SPUR OPER ONLY)	
VC	MV-32060	RWST MAKE-UP TO #12 VC PUMP	A	480V/MCC *		SSS CABLES SELECTED	1K1-14 1K1-14A 1K1-14B
				1K1			

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PRAIRIE ISLAND UNIT 2 SSS & SPUR COMPONENTS REV(21

SYSTEM COMPONENT =====	DESCRIPTION =====	TEN POWER === =====	ACT ===	ZONE =====	RESOLUTION =====	CABLE NO =====
AF 021	AFW PUMP (MOTOR DRIVEN)	A 4KV/B26 - 125V/P21	*	32	SSS CABLES SELECTED	26400-1 26400-C 26400-E 1CA-138 1CA-139 1CA-140 1DCA-56 26400-A 1A1-7A 1CA-127 1CA-129 1CB-153 1CB-419 1CB-457 1CB-442 1CB-443 1CB-441 1CB-446 1CB-154 1CB-444 1CB-445
AF 022	AFW PUMP (TURBINE DRIVEN)	B 125V/P261	*		SSS CABLES SELECTED	1CB-153 1CB-419 1CB-457 1CB-442 1CB-443 1CB-441 1CB-446 1CB-154 1CB-444 1CB-445
AF 2LT-487	S/C LEVEL	A	*		OTHER CABLES INCLUDED WITH 1PT-709	1CX-69 1CX-70

SYSTEM COMPONENT	DESCRIPTION	TRN POWER	ACT	ZONE	RESOLUTION	CABLE NO
=====	=====	== =====	==	=====	=====	=====
AF 2LT-408	S/G LEVEL	B	*		OTHER CABLES INCLUDED WITH 2PT-710	2CR-73 2CR-74 2CR-89
AF CV-31102	#21 S/G POW. OPER ATM REL. VAL A	LATER	*		RE-ROUTING OF SSS CABLES	2CF-288 1CI-140
AF CV-31107	#22 S/G POW. OPER ATM REL. VAL B	LATER	*		RE-ROUTING OF SSS CABLES	2CF-289 1C-5246
AF MV-32019	STEAM ISO TO #22 AFWP	A	NOT ESSENT		MCC BRK LOCKED-OPEN. NO SSS CABLES REQ'D	
AF MV-32020	STEAM ISO TO #22 AFWP	B	NOT ESSENT *		MCC BRK LOCKED-OPEN. NO SSS CABLES REQ'D	
AF MV-32246	DISCHARGE TO #21 S/G	B	MCC2A2	*	SSS CABLES SELECTED	1A2-11 1A2-11A 1CB-165 1CB-164 2CB-162
AF MV-32247	DISCHARGE TO #22 S/G	B	NOT ESSENT		SSS CABLES SELECTED	1A2-12 1A2-12A 2CB-166 1CB-163
AF MV-32248	#21 S/G AFW ISO	A	NOT ESSENT		MCC BRK LOCKED-OPEN NO SSS CABLES REQ'D	
AF MV-32249	#22 S/G AFW ISO	B	NOT ESSENT		MCC BRK LOCKED-OPEN. NO SSS CABLES REQ'D	
AF MV-32336	CONDENS. TO #21 AFWP	A	MCC2A1		SSS CABLES SELECTED	2A1-4 1A1-4A 1CA-28 1CA-29 2CA-38(1

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SYSTEM COMPONENT	DESCRIPTION	TRN POWER	ACT	ZONE	RESOLUTION	CABLE NO
*****	*****	***	***	****	*****	*****
AF MV-32345	CONDENS. TO #22 AFWP	B MCC2A2	*		SSS CABLES SELECTED	2A2-9 2A2-9A 2CB-58 2CB-57 2CB-59 2A1-5 2A1-5A 2CA-65 2CA-115 2CA-116C 2A1-6 2A1-5A 2CA-66 2CA-116C 2CA-117
AF MV-32383	DISCHARGE TO #21 S/G	A MCC2A1			SSS CABLES SELECTED	
AF MV-32384	DISCHARGE TO #22 S/G	A MCC2A1			SSS CABLES SELECTED	
AF SV-33300/CV-31999	#22 AFWP STEAM INLET AOV & SOV	B	NOT ESSENT	*	CABLES INCLUDED WITH #22 AFWP	
AF SV-33492/CV-31418	#21 AFWP BYPASS (AOV & SOV)	A	NOT ESSENT	*	CABLES INCLUDED WITH #21 AFWP	
AF SV-33493/CV-31419	#22 AFWP BYPASS AOV & SOV	B	NOT ESSENT	*	CABLES INCLUDED WITH #22 AFWP	
AF SV-33494/CV-31483	COOL WTR TO #21 AFWP (AOV&SOV)	A	NOT ESSENT	*	CABLES INCLUDED WITH #21 AFWP	
AF SV-33495/CV-31484	COOL WTR TO #22 AFWP (AOV&SOV)	B	NOT ESSENT	*	CABLES INCLUDED WITH #22 AFWP	
CC #21	COMPONENT COOLING PUMP	A 4KV/826 125V/P21	*	58	SSS CABLES SELECTED	26405-1 26405-A 25405-B

SYSTEM COMPONENT	DESCRIPTION	TRN POWER	ACT	ZONE	RESOLUTION	CABLE NO
=====	=====	=== =====	===	=====	=====	=====
CC #22	COMPONENT COOLING PUMP	B 4KV/825 125V/P22	*	73	SSS CABLES SELECTED	25403-1 25403-B 25403-C 25403-D 25403-E 1CB-7
CC MV-32124	#21 RCP THERMAL BARR ISO	A NOT ESSENT			MCC BRK LOCKED-OPEN. NO SSS CABLES REQ'D	
CC MV-32125	#21 RCP THERMAL BARR ISO	A NOT ESSENT			MCC BRK LOCKED-OPEN. NO SSS CABLES REQ'D	
CC MV-32126	#22 RCP THERMAL BARR ISO	B NOT ESSENT			MCC BRK LOCKED-OPEN. NO SSS CABLES REQ'D	
CC MV-32127	#22 RCP THERMAL BARR IS	B NOT ESSENT			MCC BRK LOCKED-OPEN. NO SSS CABLES REQ'D	
CC MV-32128	#21 RHR HX COOL WATER ISO	A NOT ESSENT *			MANUAL OPERATION ASSUMED	
CC MV-32129	#22 RHR HX COOL WTR ISO	B NOT ESSENT *			MANUAL OPERATION ASSUMED	
CC MV-32211	#21 SURGE TANK TO #21 CC PUMP	A NOT ESSENT			HANDUALLY ALIGNED (SPUR OPER ONLY)	
CC MV-32212	#22 SURGE TANK TO #22 CC PUMP	B NOT ESSENT			HANDUALLY ALIGNED (SPUR OPER ONLY)	
CC MV-32268	LOOP "A" COMP. COOLING ISO	B MCC2K2			SSS CABLES SELECTED (SPUR OPER ONLY)	2K2-11 2K2-11A 2CB-439 2CB-438
CC MV-32269	LOOP "B" COMP. COOLING ISO	A MCC2K1			SSS CABLES SELECTED (SPUR OPER ONLY)	2K1-33 2K1-33A 2CA-488 2CA-489

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SYSTEM COMPONENT	DESCRIPTION	TRN POWER	ACT	ZONE	RESOLUTION	CABLE NO
=====	=====	=== =====	===	=====	=====	=====
CC SV-33182/CV-31247	#21RCP THERM BARR ISO(AOV&SOV)	A	NOT ESSENT		PROCEDURAL CONTROL	
CC SV-33183/CV-31248	#22RCP THERM BARR ISO(AOV&SOV)	B	NOT ESSENT		PROCEDURAL CONTROL	
DC #21 BAT	#21 BATTERY	A	#21 BAT-CH *		OTHER SSS CABLES INCLUDED WITH PNL 21	2DCA-3
						2DCA-4
DC #21 BAT-CH	#21 BATTERY CHARGER	A	480V/MCC *		OTHER SSS CABLES INCLUDED WITH MCC 2AC1	2AC1-8
			2AC1			2DCA-57
						2DCA-58
DC #21 INV	#21 INVERTER		#21 BATT *			1CW-1
						2DCA-7
						2AC1-1
DC #22 BAT	#22 BATTERY	B	#22 BAT-CH *		OTHER SSS CABLES INCLUDED WITH PNL 22	2DCB-2
						2DCB-3
DC #22 BAT-CH	#22 BATTERY CHARGER	B	480V/MCC *		OTHER SSS CABLES INCLUDED WITH MCC 2AC2	2AC2-7
			2AC2			2DCB-58
						2DCB-59
DC #22 INV	#22 INVERTER	B	125V/P21 *		SSS CABLES INCLD WITH PNL 22 & MCC 2AC2	2CR-1
DC #23 INV	#23 INVERTER	A	125V/P21 *		SSS CABLES INCLD WITH PNL 21 & MCC 2AC1	2CX-1
DC P21	125 VDC PNL 21	A	#21 BATT *		SSS CABLES SELECTED	2DCA-17
						2DCA-5
						2DCA-6
						2DCA-8
DC P22	125V DC PNL22	B	#22 BATT *		SSS CABLES SELECTED	2DCB-16
						2DCB-27
						2DCB-10
						2DCB-9
						2DCB-5
						2DCB-6
						2DCB-8

SYSTEM COMPONENT	DESCRIPTION	TRN POWER	ACT	ZONE	RESOLUTION	CABLE NO
=====	=====	==	==	==	=====	=====
DC P261	125V DC PNL 261	B 125V/P26			OTHER CABLES INCLUDED WITH P26	2DCB-61
EA B25	4KV SWGR BUS 25	B D/G D2	*		SSS CABLES INCL WITH D/G D2 & ITR202	
EA B26	4KV SWGR BUS 26	A D/G D1	*		SSS CABLES INCLD WITH D/G D1 & ITR #201	
EA P26	125V DC PNL26	B 125V/P22			SSS CABLES SELECTED	2DCB-7
EB #201	4KV/480V TRANSFORMER	A 4KV/B26	*		SSS CABLES SELECTED	2A406-1
EB #202	4KV/480V TRANSFORMER	B 4KV/B25	*		SSS CABLES SELECTED	25402-1
EB #2A1	MCC 2A BUS 1	A B210	*		SSS CABLES SELECTED	212-1 2A1-3
EB #2A2	MCC 2A BUS 2	B B220	*		SSS CABLES SELECTED	2A2-4 222-1
EB #2AC1	MCC 2AC BUS1	A MCC/2A1	*		SSS CABLES SELECTED	2AC1-7 2AC1-2 2AC1-3
EB #2AC2	MCC 2AC BUS2	B MCC/2A2	*		SSS CABLES SELECTED	2AC2-4 2AC2-1 2AC2-6
EB #2K1	MCC 2K BUS 1	A B210	*		SSS CABLES SELECTED	213-1
EB #2K2	MCC 2K BUS2	B B220	*		SSS CABLES SELECTED	223-1 2K2-8
EB #2KA2	480V/MCC 2KA BUS2	B MCC 2K2	*		SSS CABLES INCLUDED WITH MCC 2K2	
EB 480V B220	480V SWGR BUS 220	B 4KV/B25	*		SSS CABLES INC WITH ITR #202,MCC'S,PNL22	
EB B210	480V SWGR BUS 210	A 4KV/B26	*		SSS CABLES INC WITH ITR #201,MCC'S,PNL21	

SYSTEM COMPONENT =====	DESCRIPTION =====	TRN POWER ===	ACT ===	ZONE =====	RESOLUTION =====	CABLE NO =====
PS 2LT-427	PRESSURIZER LEVEL	A	*		SSS CABLES SELECTED	2CW-26 2CW-11 2CW-9 2CF-11 2CF-74 2CF-43 1C-5118 2CF-207 1CX-140
PS 2LT-433	PRESSURIZER LEVEL	B	*		SSS CABLES SELECTED	2EM-5 2EMR-5 2EMR-6 2CX-63 2CX-64 2EM-5 2EM-9
RC 2EMA	INSTR PNL A	A	*		SSS CABLES SELECTED	2CR-67 2CR-68 2EM-6 2EM-10 2CR-89
RC 2EMB	INSTR PNL B	B	*		SSS CABLES SELECTED	2CX-75 2CX-76 2EM-7 2EM-11
RC 2PT-709	RCS LOOP A PRESSURE	A	*		SSS CABLES SELECTED	
RC 2PT-710	RCS LOOP B PRESSURE	B	*		OTHER CABLES INCL WITH #22 IMP	
RC 2TE-450A	RCS LOOP A HOT LEG TEMP	A	*		SSS CABLES SELECTED	

SYSTEM COMPONENT *****	DESCRIPTION *****	TRN POWER *** *****	ACT ***	ZONE ****	RESOLUTION *****	CABLE NO *****
RC 2TE-450B	RCS LOOP B COLD LEG TEMP	A	*		OTHER CABLES INCLUDED WITH 2TE-450A	2CX-77 2CX-78
RC 2TE-451A	RCS LOOP A HOT LEG TEMP	B	*		SSS CABLES SELECTED	2CR-77 2CR-78 2EM-12 2EM-8
RC 2TE-451B	RCS LOOP B COLD LEG TEMP	B	*		OTHER CABLES INCLUDED WITH 2TE-451A	2CR-79 2CR-80
RC CV-31230	LETDOWN ISOLATION		NOT ESSENT *		PROCEDURAL CONTROL (SPUR OPER ONLY)	
RC CV-31233	PRESSURIZER PORV		NOT ESSENT		PROCEDURAL CONTROL (SPUR OPER ONLY)	
RC CV-31234	PRESSURIZER PORV		NOT ESSENT		PROCEDURAL CONTROL (SPUR OPER ONLY)	
RC CV-31279	LETDOWN ISOLATION		NOT ESSENT *		PROCEDURAL CONTROL (SPUR OPER ONLY)	
RC P212	INSTR AC PNL	B	*		SSS CABLES SELECTED	2CX-89
RC P213	INSTR AC PNL	A	*		SSS CABLES SELECTED	2CX-84
RC RV-105	REACTOR COOLANT GAS VENT		NOT ESSENT		PROCEDURAL CONTROL (SPUR OPER ONLY)	
RC RV-106	REACTOR COOLANT GAS VENT		NOT ESSENT		PROCEDURAL CONTROL (SPUR OPER ONLY)	
RH #21	RHR PUMP	A	4KV/B26 125V/P21	* 73	SSS CABLES SELECTED	26404-1 26404-D 26404-A 2CA-8
RH #22	RHR PUMP	B	4KV/B25 125V/P22	* 73	SSS CABLES SELECTED	25404-1 25404-C 2CB-9

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SYSTEM COMPONENT	DESCRIPTION	TRN POWER	ACT	ZONE	RESOLUTION	CABLE NO
=====	=====	== =====	==	=====	=====	=====
RH CV-31238	#21 RHR HX FLOW CONTROL AOV	A	NOT ESSENT		PROCEDURAL CONTROL	
RH CV-31239	#22 RHR HX FLOW CONTROL AOV	B	NOT ESSENT		PROCEDURAL CONTROL	
RH MV-32167	RCS INJECTION ISO	A	NOT ESSENT *		MANUAL OPERATION ASSUMED	
RH MV-32168	RCS INJECT ISO	B	NOT ESSENT *		MANUAL OPERATION ASSUMED	
RH MV-32192	RHR/RCS LOOP A ISO	A	NOT ESSENT *		MCC BRK LOCKED-OPEN MANUAL OPER ASSUMED	
RH MV-32193	RHR/RCS LOOP A ISO	A	NOT ESSENT *		MANUAL OPERATION ASSUMED	
RH MV-32232	RHR/RCS LOOP B ISO	B	NOT ESSENT *		MCC BRK LOCKED-OPEN MAN OPER ASSUMED	
RH MV-32233	RHR/RCS LOOP B ISO	B	NOT ESSENT *		MANUAL OPERATION ASSUMED	
SA #123	AIR COMPRESSOR	A	480V/MCC *	31	SSS CABLES SELECTED	2A1-1 2A1-1A 2C-176 2C-177 2C-178
			2A1			
SA MV-32314	COMPRESSED AIR HDR ISO		NOT ESSENT *		MANUAL OPERATION ASSUMED(SPUR OPER ONLY)	
SA MV-32315	COMPRESSED AIR HDR ISO		NOT ESSENT *		MANUAL OPERATION ASSUMED(SPUR OPER ONLY)	
SA MV-32321	I/A UNIT 1 & 2 CROSS-TIE		NOT ESSENT *		MANUAL OPERATION ASSUMED(SPUR OPER ONLY)	
SA SV-33078	COOL WATER TO #123 AIR COMP	A	NOT ESSENT *		SSS CABLES INCLUDED WITH #123 AIR COMP	
SI #22	SAFETY INJECTION PUMP	B	4KV/B25 *	73	SSS CABLES SELECTED	25405-1 25405-A 25405-B
			125V/P22			
SI MV-32171	LOOP B COLD LEG INJECTION ISO	B	NOT ESSENT		MCC BRK LOCKED-OPEN. NO SSS CABLES REQ'D	
SI MV-32173	LOOP A COLD LEG INJECTION ISO	A	NOT ESSENT		MCC BRK LOCKED-OPEN. NO SSS CABLES REQ'D	

SYSTEM COMPONENT =====	DESCRIPTION =====	TRM POWER ===	ACT ===	ZONE =====	RESOLUTION =====	CABLE NO =====
SI MV-32174	ACCUM #21 ISO		NOT ESSENT *		MANUAL OPERATION ASSUMED(SPUR OPER ONLY)	
SI MV-32175	ACCUM #22 ISO		NOT ESSENT *		MANUAL OPERATION ASSUMED(SPUR OPER ONLY)	
SI MV-32176	COLD LEG INJECTION ISO	B	NOT ESSENT		MCC BKR LOCKED-OPEN NO SSS CABLES REQ'D	
SI MV-32183	RWST TO #22 SI PUMP ISO	B	480V/MCC *		SSS CABLES SELECTED	2KA2-14 2KA2-14A 2KA2-14B 2KA2-21 2KA2-21A
		*	2KA2			
SI MV-32191	#22 SI PUMP SUCTION ISO	B	NOT ESSENT		SSS CABLES SELECTED (SPUR OPER ONLY)	
VC #22	CHARGING PUMP	A	480V/MCC *		SSS CABLES SELECTED	2K1-5 2K1-5A 2CA-146 2K1-5B 2CA-142
			2K1			
VC CV-31222	EXCESS LETDOWN ISO		NOT ESSENT		PROCEDURAL CONTROL(SPUR OPER ONLY)	
VC CV-31422	EXCESS LETDOWN ISO		NOT ESSENT		PROCEDURAL CONTROL(SPUR OPER ONLY)	
VC CV-32063	VCT ISOLATION		NOT ESSENT *		MANUAL OPERATION ASSUMED(SPUR OPER ONLY)	
VC MV-32062	RWST MAKE-UP TO #22 VC PUMP	A	480V/MCC *		SSS CABLES SELECTED	2K1-6 2K1-6A 2K1-6B(1)
			2K1			

SYSTEM COMPONENT =====	DESCRIPTION =====	TRN POWER ===	ACT ===	ZONE =====	RESOLUTION =====	CABLE NO =====
CL #12	COOL WTR PUMP (DIES ENG DRIVN) B	LATER	*	41	SSS CABLES SELECTED	NO INFO
CL #22	COOL WTR PUMP (DIES ENG DRIVN) B	125V/P18	*	41	SSS CABLES SELECTED	NO INFO
CL CV-31381	#11 CC HX COOL WTR OUTLET AOV A				MECH STOPS ASSURE MIN FLOW	
CL CV-31383	#21 CC HX COOL WTR OUTLET AOV A			58	MECHANICAL STOPS ASSURE MINIMUM FLOW	
CL CV-31384	#22 CC HX COOL WTR OUTLET AOV B			73	MECHANICAL STOPS ASSURE MINIMUM FLOW	
CL CV-31411	#12 CC HX COOL WTR OUTLET AOV B				MECH STOPS ASSURE MIN FLOW	
CL MV-32025	ALTER FEEDWTR SUPP TO #11 AFWP B	MCC1A1	*	32	SSS CABLES SELECTED	1A1-1 1A1-1A 1AC-108 1AC-109
CL MV-32026	ALTER FEEDWTR SUPP TO #21 AFWP A	MCC2A1	*	32	SSS CABLES SELECTED	2A1-2 2A1-2A 2CA-26 2CA-27
CL MV-32027	ALTER FEEDWTR SUPP TO #12 AFWP A	MCC1A2	*	31	SSS CABLES SELECTED	1A2-3 1A2-3A 1CB-67 1CB-68
CL MV-32030	ALTER FEEDWTR SUPP TO #12 AFWP B	MCC2A2	*	31	SSS CABLES SELECTED	2A2-1 2A2-1A 2CB-55 2CB-56

SYSTEM COMPONENT =====	DESCRIPTION =====	TRN POWER === =====	ACT ===	ZONE =====	RESOLUTION =====	CABLE NO =====
CL MV-32145	#11 CC HX COOL WTR INLET ISO	A MCC1K1		58	SSS CABLES SELECTED (SPUR OPER ONLY)	1K1-23 1K1-23A 1K1-22B(
CL MV-32146	#12 CC HX COOL WTR INLET ISO	B 480V/MCC 1K2	*	58	SSS CABLES SELECTED	1K2-8 1K2-8A 1K2-9B
CL MV-32160	#21 CC HX COOL WTR INLET ISO	A MCC2K1		58	SSS CABLES SELECTED (SPUR OPER ONLY)	2K1-8 2K1-8A 2K1-8B(1
CL MV-32161	#22 CC HX COOL WTR INLET ISO	B 480V/MCC 2K2	*	73	SSS CABLES SELECTED	2K2-7 2K2-7B 2K2-7A
CL MV-32332	#12 CL PUMP RETURN HEADER ISO	A			SSS CABLES SELECTED (SPUR OPER ONLY)	1K1-25 1K1-25A 1CA-200(
CL MV-32334	#22 CL PUMP RETURN HEADER ISO	B MCC2K2			SSS CABLES SELECTED (SPUR OPER ONLY)	1CA-202 1CA-203 2CB-61 2CB-60 2CB-62 1K2-6 2K2-6A

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SYSTEM COMPONENT	DESCRIPTION	TRN POWER	ACT	ZONE	RESOLUTION	CABLE NO
=====	=====	=== =====	===	=====	=====	=====
EG D/G D1	EMERGENCY D/G D1	A 125V/P11 125V/P15	*		SSS CABLES SELECTED	1DCA-2 15402-1 26402-1 1DCA-66 1CA-155 1CA-157 1CA-173 1CA-174 1CA-183 1CA-316 1CA-317 1CA-410 1CA-168 1CA-175 15402-2 1CA-318 1CA-181 1CA-167 1CA-675 1CA-175 1CA-179 1CA-182 15402-B 26402-E

SYSTEM COMPONENT *****	DESCRIPTION *****	TRN POWER ***	ACT ---	ZONE ----	RESOLUTION *****	CABLE NO *****
EG D/G D2	EMERGENCY D/G D2	B 125V/P12 125V/P16	*		SSS CABLES SELECTED (CONTINUED)	1DCB-2 1DCB-63 1CB-195
EG D/G D2	EMERGENCY D/G D2	B 125V/P12 125V/P16	*		SSS CABLES SELECTED	1CB-113 1CB-121 1CB-133 1CB-138 1CB-140 1CB-134 1CB-193 1CB-194 1CB-294 1CB-119 1CB-130 1CB-116 16407-D 25406-3 1CB-132 1CB-131 1CB-526 25406-1 25406-2 1CB-120

SYSTEM COMPONENT =====	DESCRIPTION =====	TRN POWER ===	ACT ===	ZONE =====	RESOLUTION =====	CABLE NO =====
FO #121(CL)	FUEL OIL TRX PMP FOR #12CL PMP A	MCC1AB1	*		SSS CABLES SELECTED	1AB1-11 1AB1-12 1CA-322 1CA-580 1CA-320 1CA-321
FO #121(D/G)	FUEL OIL TRX PMP FOR D/G #1 A	MCC1K1	*		OTHER CABLES INCLUDED WITH D1	1K1-27 1K1-28
FO #122(CL)	FUEL OIL TRX PMP FOR #22CL PMP B	MCC1AB2	*		SSS CABLES SELECTED	1AB2-10 1AB2-11 1CB-199 1CB-434 1CB-197 1CB-198
FO #122(D/G)	FUEL OIL TRX PMP FOR D/G D1 A	MCC1K1	*		OTHER CABLES INCLUDED WITH D1	1K1-29 1K1-30 1K1-31 1K1-32
FO #123(D/G)	FUEL OIL TRX PMP FOR D/G D2 B	MCC1K2	*		OTHER CABLES INCLUDED WITH D2	1K2-14 1K2-15
FO #124(D/G)	FUEL OIL TRX PMP FOR D/G D2 B	MCC1K2	*		OTHER CABLES INCLUDED WITH D2	1K2-16 1K2-17 1K2-18 1K2-19