

(10) (DELETED)

(11) (DELETED)

(12) Remote Shutdown System (Section 7.1.4.4, 7.4.2.3, SER and Section 7.4.2.3, SSER-3 and SSER-5)

The licensee shall, prior to startup following the first refueling outage, have completed modifications to the existing remote shutdown system to provide a redundant safety-related method of achieving safe shutdown conditions without lifting leads or adding jumpers.

The modifications to be completed shall be those described in the licensee's letters dated April 18 and 22, 1985 which allow for the operation of the B RHR pump, the B RHR SW pump and the B ESW pump from the respective pump breaker compartments by the installation of transfer switches. The licensee shall perform necessary tests prior to startup following the first refueling outage to demonstrate the operability of the modified system.

(13) (DELETED)

TABLE 3.6.3-1 (Continued)
PART 2 - PRIMARY CONTAINMENT ISOLATION VALVES

PENETRATION NUMBER	FUNCTION	INBOARD ISOLATION BARRIER	OUTBOARD ISOLATION BARRIER	MAX. ISOL. TIME. IF APP. (SEC) (26)	ISOL. SIGNAL(S) IF APP. (20)	NOTES	P&ID
016A	Core Spray Injection	HV52-1F006A(CK)		NA		9,22	52
		HV52-1F039A	HV52-1F005	7		9,22	
016B	Core Spray Injection	HV52-1F006B(CK)		NA		9,22	52
		HV52-1F039B	HV52-108(LK)	7		9,22	
017	RPV Head Spray	HV51-1F022		60	A,V	4,9,22	51
		PSV51-122	HV51-1F023	NA		9,22	
021	Service Air to Drywell	15-1140		NA			15
			15-1139		NA		
022	Drywell Pressure Instrumentation		HV42-147C	45		10	42
023	RECW Supply to Recirculation Pumps	HV13-106*		40	C,H	11	13
			HV13-108*	30	C,H	11	
024	RECW Return From Recirculation Pumps	HV13-107*		NA		11,13	13
			HV13-111*	30	C,H	11	
			HV13-110*	NA		11,13	

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TABLE 3.6.3-1 (Continued)

PART A - PRIMARY CONTAINMENT ISOLATION VALVES

PENETRATION NUMBER	FUNCTION	INBOARD ISOLATION BARRIER	OUTBOARD ISOLATION BARRIER	MAX. ISOL. TIME, IF APP. (SEC)(26)	ISOL. SIGNAL(S), IF APP. (20)	NOTES	P&ID
025	DRYWELL PURGE SUPPLY	HV57-121(X-201A) HV57-123		5**	B,H,S,U,W,R,T	3,11,14	57
				5**	B,H,S,U,W,R,T	3,11,14	
			HV57-109 (X-201A)	6**	B,H,S,U,W,R,T	11	
			HV57-131 (X-201A)	5**	B,H,S,U,W,R,T	11	
			HV57-135	6**	B,H,S,U,W,R,T	11	
026	HYDROGEN RECOMBINER "B" INLET	HV57-163		9	B,H,R,S	3,11,14	
			FV-C-D0-101B	90	B,H,R,S	11	
026	DRYWELL PURGE EXHAUST	HV57-114 HV57-115 SV57-139		5**	B,H,S,U,W,R,T	3,11,14,33	57
				15**	B,H,S,U,R,T	5,11	
				5		10	
			HV57-115	6**	B,H,S,U,W,R,T	11,33	
			HV57-117 SV57-145	5**	B,H,S,U,R,T	11	
027A	HYDROGEN RECOMBINER "A" INLET	HV57-161		5	B,H,R,S	11	
				9	B,H,R,S	3,11,14	
			FV-C-D0-101A	90	B,H,R,S	11	
027A	CONTAINMENT INSTRUMENT GAS SUPPLY TO ADS VALVES H,M,&S	59-112B(CK)		NA			59
			HV59-151A	45	M		
028A-1	RECIRC LOOP SAMPLE	HV43-1F019		10	B,D		43
			HV43-1F020	10	B,D		
028A-2	DRYWELL H2/O2 SAMPLE	SV57-132		5	B,H,R,S	11	57
			SV57-142	5	B,H,R,S	11	
028A-3	DRYWELL H2/O2 SAMPLE	SV57-134		5	B,H,R,S	11	57
			SV57-144	5	B,H,R,S	11	

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TABLE 3.6.3-1 (Continued)
PART A - PRIMARY CONTAINMENT ISOLATION VALVES

PENETRATION NUMBER	FUNCTION	IMBOARD ISOLATION BARRIER	OUTBOARD ISOLATION BARRIER	MAX. ISOL. TIME. IF APP. (SEC) (26)	ISOL. SIGNAL(S) IF APP. (20)	NOTES	P&ID
040G-1	ILRT DATA ACQUISITION	60-1057	60-1056	NA NA		5, 11 11	60
040G-2	ILRT DATA ACQUISITION	60-1071	60-1070	NA NA		5, 11 11	60
040H-1	CONTAINMENT INSTRUMENT GAS SUPPLY - HEADER 'A'	59-1005A(CK)	HV59-129A	NA 7	C, H, S		59
042	STANDBY LIQUID CONTROL	48-1F007(CK) (X-116)	HV48-1F006A	NA 60		29	48
043B	MAIN STEAM SAMPLE	HV41-1F0B4	HV41-1F0B5	10 10	B, D B, D		41
044	RWCU ALTERNATE RETURN	41-1017	41-1016(X-9A, X-9B) PSV41-112	NA NA NA		5, 31	41
045A(B, C, D)	LPCI INJECTION 'A' (B, C, D)	HV51-1F041A*(B, C*, D*)(CK) HV51-142A*(B, C*, D*)	HV51-1F017A* (B, C*, D*)	7 38	NA	9, 22 9, 22	9, 22
050A-1	DRYWELL PRESSURE INSTRUMENTATION		HV42-147B	45		10	42
053	DRYWELL CHILLED WATER SUPPLY - LOOP 'A'	HVB7-128*	HVB7-120A* HVB7-125A*	60 60 60	C, H C, H C, H	11 11 11	87

TABLE 3.6.3-1 (Continued)
PART A - PRIMARY CONTAINMENT ISOLATION VALVES

PENETRATION NUMBER	FUNCTION	INBOARD ISOLATION BARRIER	OUTBOARD ISOLATION BARRIER	MAX. ISOL. TIME. IF APP. (SEC)(26)	ISOL. SIGNAL(S) IF APP. (20)	NOTES	P&ID
054	DRYWELL CHILLED WATER RETURN - LOOP 'A'	HV87-129*	HV87-121A*	60	C,H	11	87
				60	C,H	11	
			HV87-124A*	60	C,H	11	
055	DRYWELL CHILLED WATER SUPPLY - LOOP 'B'	HV87-122*	HV87-120B*	60	C,H	11	87
				60	C,H	11	
			HV87-125B*	60	C,H	11	
056	DRYWELL CHILLED WATER RETURN - LOOP 'B'	HV87-123*	HV87-121B*	60	C,H	11	87
				60	C,H	11	
			HV87-124B*	60	C,H	11	
061-1	RECIRC PUMP 'A' SEAL PURGE	43-1004A(CK)	{XV43-103A - SEE PART B, THIS TABLE)	NA		15	43
				NA		1	
061-2	RECIRC PUMP 'B' SEAL PURGE	43-1004B*(CK)	{XV43-103B - SEE PART B, THIS TABLE)	NA		15	43
				NA		1	
062	DRYWELL H2/O2 SAMPLE RETURN, N2 MAKE-UP	SV57-150(X-220A)	SV57-159	5	B,H,R,S	11	57
			(X-220A)	5	B,H,R,S	11	
			HV57-116	30**	B,H,R,S	11	
			(X-220A)				
			SV57-190	5	B,H,R,S	11	
	(X-220A)						

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TABLE 3.6.3-1 (Continued)

PART A - PRIMARY CONTAINMENT ISOLATION VALVES

PENETRATION NUMBER	FUNCTION	INBOARD ISOLATION BARRIER	OUTBOARD ISOLATION BARRIER	MAX. ISOL. TIME. IF APP. (SEC) (26)	ISOL. SIGNAL(S), IF APP. (20)	NOTES	9&10
			SV57-191 (X-220A)	5	B,H,R,S	11	
116	STANDBY LIQUID CONTROL	48-1Fv07(CK) (X-42)	HV48-1F006B	NA 60		29	48
117B-1	DRYWELL RADIATION MONITORING SUPPLY	SV26-190A	SV26-190B	5 5	B,H,R,S B,H,R,S	11 11	26
117B-2	DRYWELL RADIATION MONITORING RETURN	SV26-190C	SV26-190D	5 5	B,H,R,S B,H,R,S	11 11	26
201A	SUPPRESSION POOL PURGE SUPPLY	HV57-124 HV57-131(X-25)	HV57-109(X-25) HV57-147 HV57-121(X-25)	5** 5** 6** 6** 5**	B,H,S,U,W,R,T B,H,S,U,W,R,T B,H,S,U,W,R,T B,H,S,U,W,R,T B,H,S,U,W,R,T	3,11,14, 3,11,14 11 11 11	57
	HYDROGEN RECOMBINER "B" EXHAUST	HV57-164		9	B,H,R,S	3,11,14	
			HV57-169	9	B,H,R,S	11	
202	SUPPRESSION POOL PURGE EXHAUST	HV57-104 HV57-105	HV57-112 HV57-118 SV57-185	5** 15** 6** 5** 5	B,H,S,U,W,R,T B,H,S,U,R,T B,H,S,U,W,R,T B,H,S,U,R,T B,H,R,S	3,11,14,33 5,11 11,33 11 11	57
	HYDROGEN RECOMBINER "A" EXHAUST	HV57-162		9	B,H,R,S	3,11,14	
			HV57-166	9	B,H,R,S	11	
203A(B,C,D)	RHR PUMP SUCTION		HV51-1F004A(B, C,D)	240		4,22, 19,29	51
			PSV51-1F030A(B, C,D)	NA		22	

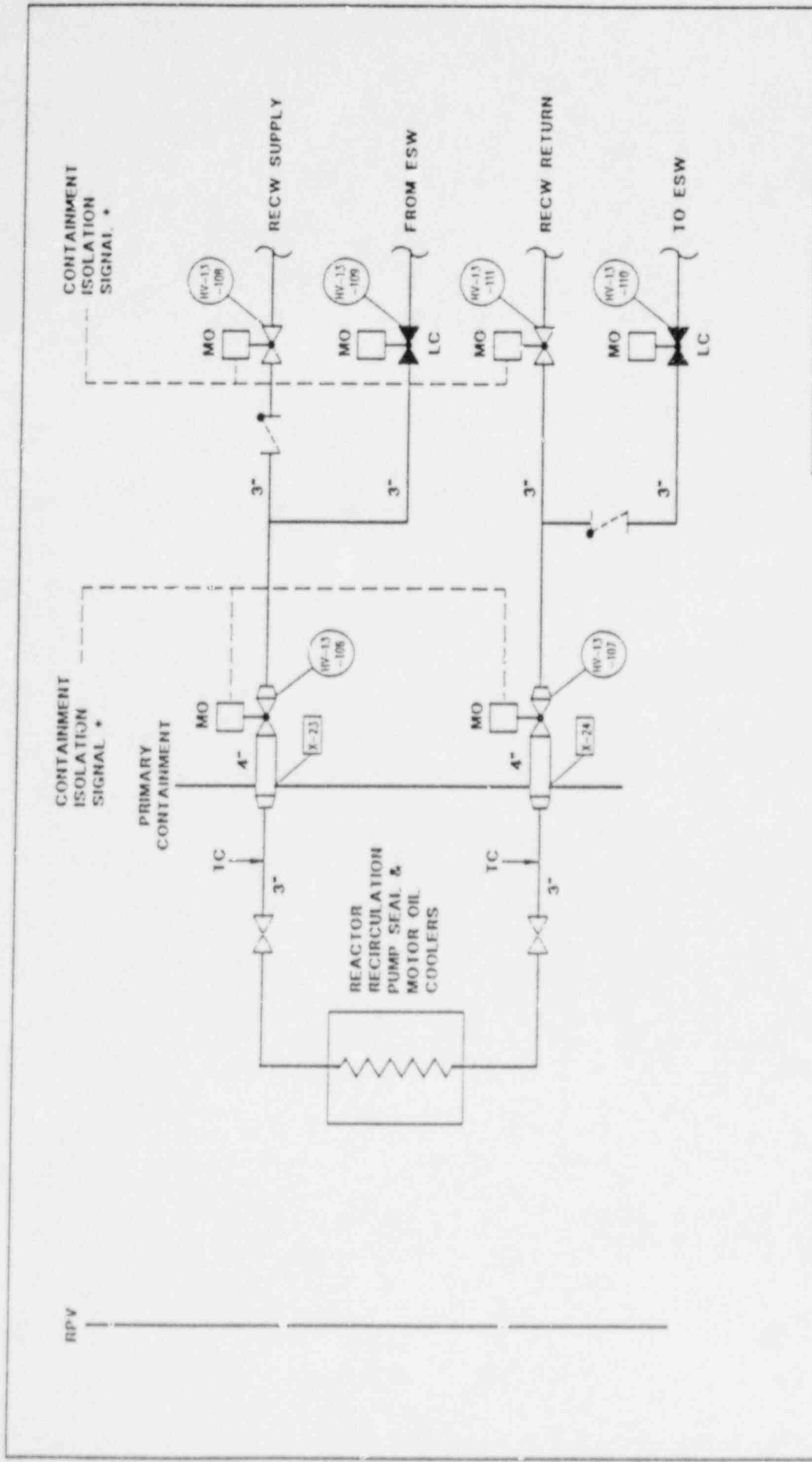
LIMERICK - UNIT 1

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TABLE 3.6.3-1
PRIMARY CONTAINMENT ISOLATION VALVES
NOTATION

NOTES (Continued)

21. Automatic isolation signal causes TIP to retract; ball valve closes when probe is fully retracted.
22. Isolation barrier remains water filled or a water seal remains in the line post-LOCA. Isolation valve may be tested with water. Isolation valve leakage is not included in 0.60 La total Type B & C tests.
23. Valve does not receive an isolation signal. Valves will be open during Type A test. Type C test not required.
24. Both isolation signals required for valve closure.
25. Deleted.
26. Valve stroke times listed are maximum times verified by testing per Specification 4.0.5 acceptance criteria. The closure times for isolation valves in lines in which high-energy line breaks could occur are identified with a single asterisk. The closure times for isolation valves in lines which provide an open path from the containment to the environs are identified with a double asterisk.
27. The reactor vessel head seal leak detection line (penetration 29A) excess flow check valve is not subject to OPERABILITY testing. This valve will not be exposed to primary system pressure except under the unlikely conditions of a seal failure where it could be partially pressurized to reactor pressure. Any leakage path is restricted at the source; therefore, this valve need not be OPERABILITY tested.
28. (DELETED)
29. Valve may be open during normal operation; capable of manual isolation from control room. Position will be controlled procedurally.
30. Valve normally open, closes on scram signal.
31. Valve 41-1016 is an outboard isolation barrier for penetrations X-9A, B and X-44. Leakage through valve 41-1016 is included in the total for penetration X-44 only.
32. Feedwater long-path recirculation valves are sealed closed whenever the reactor is critical and reactor pressure is greater than 600 psig. The valves are expected to be opened only in the following instances:
 - a. Flushing of the condensate and feedwater systems during plant startup.
 - b. Reactor pressure vessel hydrostatic testing, which is conducted following each refueling outage prior to commencing plant startup.Therefore, valve stroke timing in accordance with Specification 4.0.5 is not required.
33. Valve also constitutes a Refueling Area Secondary Containment Automatic Isolation Valve as shown in Table 3.6.5.2.2-1.



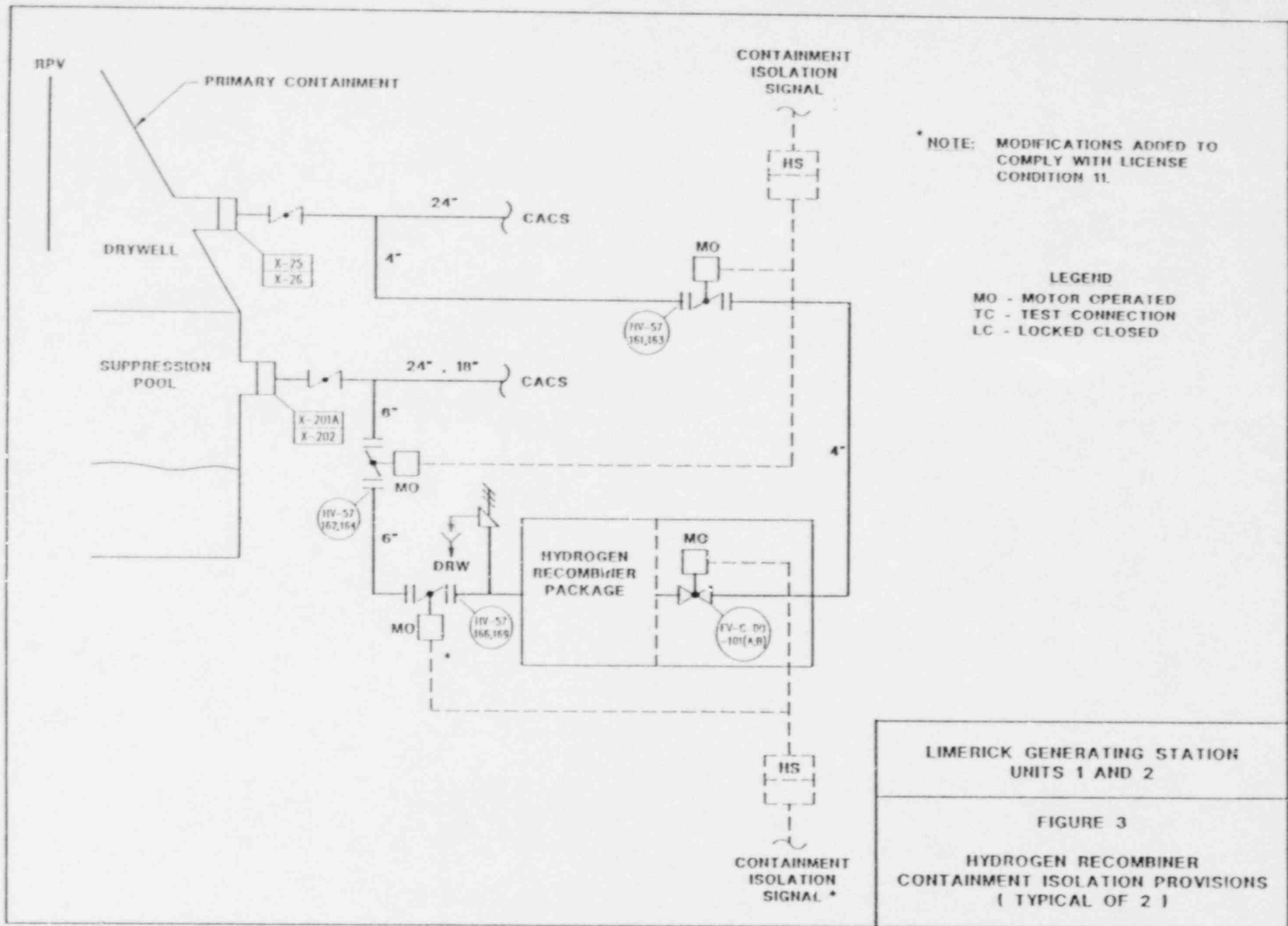
* NOTE: CONTAINMENT ISOLATION SIGNAL ADDED AS REQUIRED BY LICENSE CONDITION 10.

LEGEND
 MO - MOTOR OPERATED
 TC - TEST CONNECTION
 LC - LOCKED CLOSED

LIMERICK GENERATING STATION
 UNITS 1 AND 2

FIGURE 1

REACTOR ENCLOSURE
 COOLING WATER
 CONTAINMENT ISOLATION PROVISIONS



* NOTE: MODIFICATIONS ADDED TO COMPLY WITH LICENSE CONDITION 11.

LEGEND
 MO - MOTOR OPERATED
 TC - TEST CONNECTION
 LC - LOCKED CLOSED

LIMERICK GENERATING STATION
 UNITS 1 AND 2

FIGURE 3
 HYDROGEN RECOMBINER
 CONTAINMENT ISOLATION PROVISIONS
 (TYPICAL OF 2)

UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION

In the Matter of : Docket No.: 50-352
PHILADELPHIA ELECTRIC COMPANY :
(Limerick Generating Station, :
Unit No. 1)

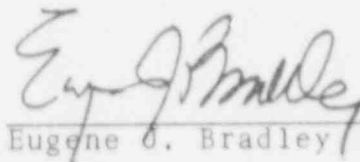
CERTIFICATE OF SERVICE

I hereby certify that copies of the foregoing Application for Amendment of Facility Operating License NPF-39 in the above captioned matter were served on the following by deposit in the United States Mail, first-class postage prepaid, on the 11th day of May , 1988.

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