

ATTACHMENT 2

LIMERICK GENERATING STATION
UNIT 1 AND UNIT 2

Docket Nos.

50-352

50-353

License Nos.

NPF-39

NPF-85

TECHNICAL SPECIFICATIONS CHANGE REQUEST
NO. 94-48-0

AFFECTED PAGES

UNIT 1

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UNIT 2

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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
040G-1	ILRT DATA ACQUISITION	60-1057	60-1058	NA NA		11 11	60
040G-2	ILRT DATA ACQUISITION	60-1071	60-1070	NA NA		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	HV41-1F084	HV41-1F085	10 10	B B		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)	NA HV51-1F017A (B,C,D)	 7 38	9,22	51 9,22	
050A-1	DRYWELL PRESSURE INSTRUMENTATION		HV42-147B	45		10	42
053	DRYWELL CHILLED WATER SUPPLY - LOOP 'A'	HV87-128	HV87-120A HV87-125A	60 60 NA	C,H C,H	11 11 34	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		60	C,H	11	87
			HV87-121A	60	C,H	11	
			HV87-124A	NA		34	
055	DRYWELL CHILLED WATER SUPPLY - LOOP 'B'	HV87-122		60	C,H	11	87
			HV87-120B	60	C,H	11	
			HV87-125B	NA		34	
056	DRYWELL CHILLED WATER RETURN - LOOP 'B'	HV87-123		60	C,H	11	87
			HV87-121B	60	C,H	11	
			HV87-124B	NA		34	
061-1	RECIRC PUMP 'A' SEAL PURGE	43-1004A(CK)		NA		15	43
			(XV43-103A - SEE PART B, THIS TABLE)	NA		1	
061-2	RECIRC PUMP 'B' SEAL PURGE	43-1004B(CK)		NA		15	43
			(XV43-103B - SEE PART B, THIS TABLE)	NA		1	
062	DRYWELL H2/O2 SAMPLE RETURN, N2 MAKE-UP	SV57-150(X-220A)		5	B,H,R,S	11	57
			SV57-159 (X-220A)	5	B,H,R,S	11	
			HV57-116 (X-220A)	30**	B,H,R,S	11	
			SV57-190 (X-220A)	5	B,H,R,S	11	

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 Unit 2 Reactor Enclosure Secondary Containment Automatic Isolation Valve and a Refueling Area Secondary Containment Automatic Isolation Valve as shown in Table 3.6.5.2.1-1 and Table 3.6.5.2.2-1 respectively.
34. Auto isolation signals have been removed from HV-087-124 A/B and 125 A/B. Valves to be closed with associated circuit breakers locked open during OPCONS 1, 2, and 3.

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
040G-1	ILRT DATA ACQUISITION	60-2057	60-2058	NA NA		11 11	60
040G-2	ILRT DATA ACQUISITION	60-2071	60-2070	NA NA		11 11	60
040H-1	CONTAINMENT INSTRUMENT GAS SUPPLY - HEADER 'A'	59-2005A(CK)	HV59-229A	NA 7	C,H,S		59
042	STANDBY LIQUID CONTROL	48-2F007(CK) (X-116)	HV48-2F006A	NA 60		29	48
043B	MAIN STEAM SAMPLE	HV41-2F084	HV41-2F085	10 10	B B		41
044	RWCU ALTERNATE RETURN	41-2017	41-2016(X-9A, X-9B) PSV41-212	NA NA NA		5,31	41
045A(B,C,D)	LPCI INJECTION 'A' (B,C,D)	HV51-2F041A(B,C, D) (CK) HV51-242A(B,C, D)	HV51-2F017A (B,C,D)	NA 7 38		9,22 9,22	51
050A-1	DRYWELL PRESSURE INSTRUMENTATION		HV42-247B	45		10	42
053	DRYWELL CHILLED WATER SUPPLY - LOOP 'A'	HV87-228	HV87-220A HV87-225A	60 60 NA	C,H C,H	11 11 35	87

LIMERICK - UNIT 2

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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
054	DRYWELL CHILLED WATER RETURN - LOOP 'A'	HV87-229	HV87-221A HV87-224A	60 60 NA	C,H C,H	11 11 35	87
055	DRYWELL CHILLED WATER SUPPLY - LOOP 'B'	HV87-222	HV87-220B HV87-225B	60 60 NA	C,H C,H	11 11 35	87
056	DRYWELL CHILLED WATER RETURN - LOOP 'B'	HV87-223	HV87-221B HV87-224B	60 60 NA	C,H C,H	11 11 35	87
061-1	RECIRC PUMP 'A' SEAL PURGE	43-2004A(CK)	(XV43-203A - SEE PART B, THIS TABLE)	NA NA		15 1	43
061-2	RECIRC PUMP 'B' SEAL PURGE	43-2004B(CK)	(XV43-203B - SEE PART B, THIS TABLE)	NA NA		15 1	43
062	DRYWELL H2/O2 SAMPLE RETURN, N2 MAKE-UP	SV57-250(X-220A)	SV57-259 (X-220A) HV57-216 (X-220A) SV57-290 (X-220A)	5 5 30** 5	B,H,R,S B,H,R,S B,H,R,S B,H,R,S	11 11 11 11	57

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 41-2016 is an outboard isolation barrier for penetrations X-9A, B and X-44. Leakage through valve 41-2016 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 Unit 1 Reactor Enclosure Secondary Containment Automatic Isolation Valve and a Refueling Area Secondary Containment Automatic Isolation Valve as shown in Table 3.6.5.2.1-1 and Table 3.6.5.2.2-1, respectively.
34. Isolation signal causes recombiner to trip; valve closes when recombiner is not operating.
35. Auto isolation signals have been removed from HV-087-224 A/B and 225 A/B. Valves to be closed with associated circuit breakers locked open during GPCONS 1, 2, and 3.