

Attachment 1

NRC DOCKET 50-366
OPERATING LICENSE NPF-5
EDWIN I. HATCH NUCLEAR PLANT UNIT 2
Containment Penetration Generic Change

Remove

3/4 8-18
3/4 8-20
3/4 8-21
3/4 8-22
3/4 8-23

Insert

3/4 8-18
3/4 8-20
3/4 8-21
3/4 8-22
3/4 8-23

ELECTRICAL POWER SYSTEMS

PRIMARY CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

LIMITING CONDITION FOR OPERATION

3.8.2.6 All primary containment penetration conductor overcurrent protective devices shown in Table 3.8.2.6-1 shall be OPERABLE.

APPLICABILITY: CONDITIONS 1, 2 and 3.

ACTION:

With one or more of the primary containment penetration conductor overcurrent protective devices shown in Table 3.8.2.6-1 inoperable;

- a. De-energize the circuit(s) by tripping the associated circuit breaker(s) within 72 hours and the provisions of Specification 3.0.4 are not applicable, or
- b. Be in at least HOT SHUTDOWN within the next 12 hours and in COLD SHUTDOWN within the following 24 hours.

SURVEILLANCE REQUIREMENTS

4.8.2.6.1 All primary containment penetration conductor overcurrent protective devices shown in Table 3.8.2.6-1 shall be demonstrated OPERABLE:

- a. At least once per 18 months:
 1. For at least one 4 KV reactor recirculation pump circuit, such that both recirculation pump circuits are demonstrated OPERABLE at least once per 36 months, by performance of:
 - (a) A CHANNEL CALIBRATION of the associated protective relays, and
 - (b) An integrated system functional test which includes simulated automatic actuation of the system and verifying that each relay and associated circuit breakers and control circuits function as designed.
 2. For molded case circuit breakers, by performance of a functional test of at least one circuit breaker of each type, such that all circuit breakers of each type are demonstrated OPERABLE at least once per N x 18 months, where N is the number of circuit breakers of each type. The functional test shall consist of injecting a current input as specified by NEMA AB2-1980 to the circuit breaker and verifying that the circuit breaker functions as designed. Should any circuit breaker fail to function as designed, all other circuit breakers of that type shall be tested.

TABLE 3.8.2.6-1

PRIMARY CONTAINMENT PENETRATION CONDUCTOR
OVERCURRENT PROTECTIVE DEVICES

<u>DEVICE NUMBER</u> <u>AND LOCATION*</u>	<u>SYSTEM/COMPONENT</u> <u>POWERED</u>
a. Type 1:	
1. 4KV CKT. BKR. 2R22-S001, FR.5	MG SET A DRIVE MOTOR 2B31-S001A
2. 4KV CKT. BKR. 2R22-S008, FR.2	MG SET A PUMP MOTOR 2B31-C001A
3. 4KV CKT. BKR. 2R22-S002, FR.2	MG SET B DRIVE MOTOR 2B31-S001B
4. 4KV CKT. BKR. 2R22-S009, FR.2	MG SET B PUMP MOTOR 2B31-C001B
b. Type 2:	
1. 600 VAC, MCB, T.M. 2R24-S012, COMPT. 2DL	DRYWELL COOLING UNIT 2T47-B009B
2. 600 VAC, MCB, T.M. 2R24-S012, COMPT. 2DR	DRYWELL COOLING UNIT 2T47-B009B
3. 600 VAC, MCB, T.M. 2R24-S012, COMPT. 3FL	DRYWELL COOLING UNIT 2T47-B008B
4. 600 VAC, MCB, T.M. 2R24-S012, COMPT. 3FR	DRYWELL COOLING UNIT 2T47-B008B
5. 600 VAC, MCB, T.M. 2R24-S011, COMPT. 1DL	DRYWELL COOLING UNIT 2T47-B008A
6. 600 VAC, MCB, T.M. 2R24-S011, COMPT. 1DR	DRYWELL COOLING UNIT 2T47-B008A
7. 600 VAC, MCB, T.M. 2R24-S011, COMPT. 20AR	DRYWELL COOLING UNIT 2T47-B009A
8. 600 VAC, MCB, T.M. 2R24-S011, COMPT. 20D	DRYWELL COOLING UNIT 2T47-B009A

*M.C.B. - molded case circuit breaker.

M.O. - magnetic only

T.M. - thermal magnetic

TABLE 3.8.2.6-1 (Continued)

PRIMARY CONTAINMENT PENETRATION CONDUCTOR
OVERCURRENT PROTECTIVE DEVICES

<u>DEVICE NUMBER</u> <u>AND LOCATION*</u>	<u>SYSTEM/COMPONENT</u> <u>POWERED</u>
c. Type 3:	
1. 600 VAC, MCB, T.M. 2R24-S014, COMPT. 5E	RECIRC. PUMP MOTOR HEATER 2B31-C001B
2. 600 VAC, MCB, T.M. 2R24-S013, COMPT. 5B	REACTOR RECIRC. PUMP MOTOR HEATER 2B31-C001A
d. Type 4:	
1. 120 VAC, MCB, T.M. 2R25-S102, CKT. 10	CABLES BHE805M01 AND BHE808M02
2. 120 VAC, MCB, T.M. 2R25-S101, CKT. 10	CKTS, BGE708M01 AND BGE708M02
e. Type 5:	
1. 600 VAC, MCB, M.O. 2R24-S014, COMPT. 2A	DRYWELL EQUIP. DR. SUMP DISCH. MOV. 2G11-F018
2. 600 VAC, MCB, M.O. 2R24-S014, COMPT. 6C	DRYWELL EQUIP. DRAIN SUMP RECIRC. MOV. 2G11-F015
3. 600 VAC, MCB, M.O. 2R24-S012B, COMPT. 4A	RCIC STEAMLINE INBOARD ISO. MOV. 2E51-F007
4. 600 VAC, MCB, M.O. 2R24-S011, COMPT. 9A	RHR HEAD SPRAY ISOLATION MOV. 2E11-F022
5. 600 VAC, MCB, M.O. 2R24-S011A, COMPT. 4A	HPCI STEAM LINE INBOARD ISOLATION MOV. 2E41-F002
6. 600 VAC, MCB, M.O. 2R24-S011, COMPT. 14C	RWCU INBOARD ISOLATION MOV. 2G31-F001
7. 600 VAC, MCB, M.O. 2R24-S011, COMPT. 15B	MAIN STEAM LINE DRAIN MOV. 2B21-F016

*M.C.B. - molded case circuit breaker
M.O. - magnetic only
T.M. - thermal magnetic

TABLE 3.8.2.6-1 (Continued)

PRIMARY CONTAINMENT PENETRATION CONDUCTOR
OVERCURRENT PROTECTIVE DEVICES

<u>DEVICE NUMBER</u> <u>AND LOCATION*</u>	<u>SYSTEM/COMPONENT</u> <u>POWERED</u>
c. Type 6:	
1. 600 VAC, MCB, M.O. 2R24-S018A, COMPT. 2A	LOOP 'A' PUMP SUCTION MOV 2B31-F023A
2. 600 VAC, MCB, M.O. 2R24-S018A, COMPT. 2B	LOOP 'A' PUMP DISCH. MOV 2B31-F031A
3. 600 VAC, MCB, M.O. 2R24-S018B, COMPT. 3A	LOOP 'B' PUMP SUCTION MOV 2B31-F023B
4. 600 VAC, MCB, M.O. 2R24-S018B, COMPT. 3B	LOOP 'B' PUMP DISCH. MOV 2B31-F031B
5. 600 VAC, MCB, M.O. 2R24-S014, COMPT. 1E	DRYWELL EQUIP. DRAIN PUMP B 2G11-C006B
6. 600 VAC, MCB, M.O. 2R24-S014, COMPT. 7D	DRYWELL FLOOR DRAIN SUMP PUMP 'B' 2G11-C001B
7. 600 VAC, MCB, M.O. 2R24-3013, COMPT. 4A	DRYWELL FLOOR DPAIN SUMP PUMP 1A 2G11-C001A
8. 600 VAC, MCB, M.O. 2R24-S013, COMPT. 4B	DRYWELL EQUIP. DRAIN SUMP PUMP A 2G11-C006A
9. 600 VAC, MCB, M.O. 2R24-S012, COMPT. 18B	DRYWELL COOLING UNIT 2T47-B007B
10. 600 VAC, MCB, M.O. 2R24-S012, COMPT. 19A	DRYWELL COOLING UNIT 2T47-C001B
11. 600 VAC, MCB, M.O. 2R24-S011, COMPT. 6C	RHR SHUTDOWN COOLING ISO. MOV 2E11-F009
12. 600 VAC, MCB, M.O. 2R24-S011, COMPT. 18A	DRYWELL COOLING UNIT 2T47-B007A
13. 600 VAC, MCB, M.O. 2R24-S011, COMPT. 18C	DRYWELL COOLING RETURN AIR FAN 2T47-C001A

*M.C.B. - molded case circuit breaker
M.O. - magnetic only
T.M. - thermal magnetic

TABLE 3.8.2.6-1 (Continued)

PRIMARY CONTAINMENT PENETRATION CONDUCTOR
OVERCURRENT PROTECTIVE DEVICES

<u>DEVICE NUMBER</u> <u>AND LOCATION*</u>	<u>SYSTEM/COMPONENT</u> <u>POWERED</u>
c. Type 7:	
1. 208 VAC, MCB, M.O. 2R24-S013, COMPT. 11D	DRYWELL CHEMICAL SUMP PUMP 2G11-C101
2. 208 VAC, MCB, M.O. 2R24-S012, COMPT. 23C	DRYWELL RETURN AIR FAN 2T47-C002B
3. 208 VAC, MCB, M.O. 2R24-S011, COMPT. 22C	DRYWELL COOLING RETURN AIR FAN 2T47-C002A

*M.C.B. - molded case circuit breaker.

M.O. - magnetic only

T.M. - thermal magnetic

Attachment 2

NRC DOCKET 50-366
OPERATING LICENSE NPF-5
EDWIN I. HATCH NUCLEAR PLANT UNIT 2
Containment Penetration Specific Change

Remove

3/4 8-21
3/4 8-22
3/4 8-23

Insert

3/4 8-21
3/4 8-22
3/4 8-23

TABLE 3.8.2.6-1 (Continued)

PRIMARY CONTAINMENT PENETRATION CONDUCTOR
OVERCURRENT PROTECTIVE DEVICES

<u>DEVICE NUMBER AND LOCATION*</u>	<u>TRIP SETPOINT (Amperes)</u>	<u>RESPONSE TIME (Milliseconds)</u>	<u>SYSTEM/COMPONENT POWERED</u>
c. Type 3:			
1. 600 VAC, MCB, T.M. 2R24-S014, COMPT. 5E	15	NA	RECIRC. PUMP MOTOR HEATER 2B31-C001B
2. 600 VAC, MCB, T.M. 2R24-S013, COMPT. 5B	15	NA	REFACTOR RECIRC. PUMP MOTOR HEATER 2B31-C001A
d. Type 4:			
1. 120 VAC, MCB, T.M. 2R25-S102, CKT. 10	20	NA	CABLES BHE805M01 AND BHE808M02
2. 120 VAC, MCB, T.M. 2R25-S101, CKT. 10	20	NA	CKTS, BGE708M01 AND BGE708M02
e. Type 5:			
1. 600 VAC, MCB, M.O. 2R24-S014, COMPT. 2A	7	NA	DRYWELL EQUIP. DR. SUMP DISCH. MOV 2G11-F018
2. 600 VAC, MCB, M.O. 2R24-S014, COMPT. 6C	15	NA	DRYWELL EQUIP. DRAIN SUMP RECIRC. MOV 2G11-F015
3. 600 VAC, MCB, M.O. 2R24-S012B, COMPT 4A	22	NA	RCIC STEAMLINE INBOARD ISO. MOV. 2E51-F007
4. 600 VAC, MCB, M.O. 2R24-S011, COMPT. 9A	16	NA	RHR HEAD SPRAY ISOLATION MOV. 2E11-F022
5. 600 VAC, MCB, M.O. 2R24-S011A, COMPT. 4A	35	NA	HPCI STEAM LINE INBOARD ISOLATION MOV. 2E41-F002
6. 600 VAC, MCB, M.O. 2R24-S011, COMPT. 14C	22	NA	RWCU INBOARD ISOLATION MOV. 2G31-F001
7. 600 VAC, MCB, M.O. 2R24-S011, COMPT. 15B	19	NA	MAIN STEAM LINE DRAIN MOV. 2B21-F016

*M.C.B. - molded case circuit breaker

M.O. - magnetic only

T.M. - thermal magnetic

TABLE 3.8.2.6-1 (Continued)

PRIMARY CONTAINMENT PENETRATION CONDUCTOR
OVERCURRENT PROTECTIVE DEVICES

<u>DEVICE NUMBER AND LOCATION*</u>		<u>TRIP SETPOINT (Amperes)</u>	<u>RESPONSE TIME (Milliseconds)</u>	<u>SYSTEM/COMPONENT POWERED</u>
f. Type 6:				
1.	600 VAC, MCB, M.O. 2R24-S018A, COMPT. 2A	200	NA	LOOP 'A' PUMP SUCTION MOV 2B31-F023A
2.	600 VAC, MCB, M.O. 2R24-S018A, COMPT. 2B	215 135**	NA	LOOP 'A' PUMP DISCH. MOV 2B31-F031A
3.	600 VAC, MCB, M.O. 2R24-S018B, COMPT. 3A	270	NA	LOOP 'B' PUMP SUCTION MOV 2B31-F023B
4.	600 VAC, MCB, M.O. 2R24-S018B, COMPT. 3B	185 135**	NA	LOOP 'B' PUMP DISCH. MOV 2B31-F031B
5.	600 VAC, MCB, M.O. 2R24-S014, COMPT. 1B	190	NA	DRYWELL EQUIP. DRAIN PUMP B 2G11-C006B
6.	600 VAC, MCB, M.O. 2R24-S014, COMPT. 7D	140	NA	DRYWELL FLOOR DRAIN SUMP PUMP 'B' 2G11-C001B
7.	600 VAC, MCB, M.O. 2R24-3013, COMPT. 4A	150	NA	DRYWELL FLOOR DRAIN SUMP PUMP 1A 2G11-C001A
8.	600 VAC, MCB, M.O. 2R24-S013, COMPT. 4B	130	NA	DRYWELL EQUIP. DRAIN SUMP PUMP A 2G11-C006A
9.	600 VAC, MCB, M.O. 2R24-S012, COMPT. 18B	480	NA	DRYWELL COOLING UNIT 2T47-B007B
10.	600 VAC, MCB, M.O. 2R24-S012, COMPT. 19A	320	NA	DRYWELL COOLING UNIT 2T47-C001B
11.	600 VAC, MCB, M.O. 2R24-S011, COMPT. 6C	190	NA	RHR SHUTDOWN COOLING ISO. MOV 2E11-F009
12.	600 VAC, MCB, M.O. 2R24-S011, COMPT. 18A	455	NA	DRYWELL COOLING UNIT 2T47-B007A
13.	600 VAC, MCB, M.O. 2R24-S011, COMPT. 18C	320	NA	DRYWELL COOLING RETURN AIR FAN 2T47-C001A

*M.C.B. - molded case circuit breaker

M.O. - magnetic only

T.M. - thermal magnetic

**This trip setpoint becomes effective following the sext shutdown after September 28 1984.

TABLE 3.8.2.6-1 (Continued)

PRIMARY CONTAINMENT PENETRATION CONDUCTOR
OVERCURRENT PROTECTIVE DEVICES

<u>DEVICE NUMBER</u> <u>AND LOCATION*</u>	<u>TRIP</u> <u>SETPOINT</u> (Amperes)	<u>RESPONSE</u> <u>TIME</u> (Milliseconds)	<u>SYSTEM/COMPONENT</u> <u>POWERED</u>
g. Type 7:			
1. 208 VAC, MCB, M.O. 2R24-S013, COMPT. 11D	110	NA	DRYWELL CHEMICAL SUMP PUMP 2G11-C101
2. 208 VAC, MCB, M.O. 2R24-S012, COMPT. 23C	85	NA	DRYWELL RETURN AIR FAN 2T47-C002B
3. 208 VAC, MCB, M.O. 2R24-S011, COMPT. 22C	85	NA	DRYWELL COOLING RETURN AIR FAN 2T47-C002A

*M.C.B. - molded case circuit breaker.

M.O. - magnetic only

T.M. - thermal magnetic