

DCP

JAN 28 1988

MEMORANDUM FOR: Dennis M. Crutchfield, Director, Division of Reactor Projects III, IV, V and Special Projects, MRR

FROM: Charles E. Norelius, Director, Division of Reactor Projects, Region III

SUBJECT: COMMONWEALTH EDISON COMPANY, BRAIDWOOD UNIT 2, STATUS OF PREPAREDNESS FOR FULL POWER LICENSING

This is the fourth memorandum forwarded to you in accordance with IE MC 94300, and the first to provide information on the preparedness for full power licensing of Braidwood Unit 2. The enclosures include the items requiring inspection and resolution before a finding of readiness for full power operation can be endorsed by Region III. The classification of these items is consistent with the categories used by Commonwealth Edison. The licensee's projected date for entering Mode 1 and proceeding to power levels above 5% power is March 21, 1988.

The licensee has loaded fuel and is on schedule for initial criticality on February 29, and entry into Mode 1 on March 21, 1988. There is minor effort left on the 2513 program, the 2514 program of test witnessing is being performed. The 2514 program will continue past full power licensing through the startup test program. There are approximately 17 open items to be resolved prior to entry into Mode 1.

Should you have any questions concerning this matter, please contact me or Mr. R. M. Lerch of my staff.

ORIGINAL SIGNED BY C. E. NORELIUS

Charles E. Norelius, Director  
Division of Reactor Projects

Enclosures:

1. Outstanding Items Including Enforcement and Unresolved Items
2. Status of License Conditions
3. Status of Inspections Required by MC 2513 and 2514

See Attached Distribution

yes  
RIII  
Lerch/mb

RIII  
Hinds

RIII  
Forney

RIII  
Miller  
1/28/88

RIII  
Hind  
1/25/88

RIII  
Norelius  
1/28/88

IEC

11

8802020182 880128  
PDR ADOCK 05000457  
P PDR

Dennis M. Crutchfield

2 JAN 28 1988

Distribution

cc w/enclosures:

D. Muller, NRR

R. Cooper, DEDO

S. Sands, NRR

C. Paperiello, RIII

J. Hind, RIII

H. Miller, RIII

E. Greenman, RIII

N. Chrissotimos, RIII

J. Harrison, RIII

J. Hinds, RIII

B. Mallett, RIII

W. Shafer, RIII

F. Jablonski, RIII

T. Burdick, RIII

M. Phillips, RIII

G. Wright, RIII

R. Gardner, RIII

J. Creed, RIII

W. Snell, RIII

M. Schumacher, RIII

R. Greger, RIII

R. Lerch, RIII

SRI, Braidwood

## ENCLOSURE 1

### Outstanding Items Including Enforcement and Unresolved Items

The following describes those issues which remain outstanding at Braidwood 2 and the milestones by which they must be resolved.

1. Attached to this enclosure is the current listing of Region III open items which must be closed prior to reaching the mode indicated. Mode 0 indicates no milestone for completion. Mode 5 is for cold shutdown, Mode 4 is for hot shutdown, Mode 3 is for hot standby, Mode 2 is for criticality and Mode 1 is for power operation at greater than 5%.
2. There are currently six open allegations that are assigned to the Region III staff. There are no issues open which constrain issuing a full power license. Technical concerns have been inspected and documented in inspection reports or have been reviewed for license impact.

### Allegation Tracking Numbers

AMS No. 84-A-0096  
AMS No. 85-A-0032  
AMS No. 86-A-0131  
AMS No. 87-A-0019  
AMS No. 87-A-0100  
AMS No. 87-A-0151

In addition to the above allegations, the Office of Investigations is currently investigating three reports of alleged wrongdoing. The technical issues involved have been inspected and documented in inspection reports. There are no issues identified to date which constrain issuing a full power license.

BRAIDWOOD CONSTRUCTION  
LIMITED REPORT

13:27 MONDAY, JANUARY 18, 1988 1

MODE=0

OBS	ITEM NUMBER	SUBJECT	STATUS	CLOSING REPORT	ORIG PERSON
1	457-100-86-002-01	NRC OPEN ITEM TO TRACK THE SELECTION OF AN AREA AND CONSTRUCTION OF A TLD CALIBRATION FACILITY.	OPEN		GRANT
2	457-100-86-014-01	NRC OPEN ITEM TO TRACK CONCERNS HELD WITH THE MANNER IN WHICH 10 CFR 50.59 REVIEWS ARE CURRENTLY BEING PREPARED.	OPEN		TONGUE
3	457-100-87-006-02	NRC OPEN ITEM RELATED TO POTENTIAL DELAY BETWEEN REVIEW AND HANGING OF DOS AND DOCUMENTATION OF GRANTING PERMISSION TO HANG DOS.	OPEN		TAYLOR
4	457-100-87-007-01	NRC OPEN ITEM FOR CHEMISTRY TO ANALYZE AN ADDITIONAL RESL SAMPLE FOR FE-55	OPEN		HOLTZMAN
5	457-100-87-018-01	NRC OPEN ITEM ON COMPLETION OF SPECIFIC PRACTICAL FACTOR TASK DEMONSTRATIONS FOR RCT CERTIFICATION	OPEN		SLAWINSKI
6	457-100-87-03001	NRC UNRESOLVED ITEM PENDING REVIEW OF SNUBBER POSITION MEASUREMENTS	OPEN		LIU
7	457-100-87-03 <sup>2</sup> <del>1</del> -01	NRC OPEN ITEM TRACKING RESOLUTION OF NEUTRON STREAMING CONCERNS	OPEN		GRANT
8	457-101-85-00300	IEB 85-03: MOTOR OPERATED VALVE COMMON MODE FAILURES DURING PLANT TRANSIENTS DUE TO IMPROPER SWITCH SETTINGS	OPEN		WORLD
9	457-104-85-00600	GL 85-06: QA GUIDANCE FOR NON-SAFETY RELATED ATWS EQUIPMENT	OPEN		TONGUE
10	457-104-85-00700	GL 85-07: IMPLEMENTATION OF INTEGRATED SCHEDULES FOR PLANT MODIFICATIONS	OPEN		TONGUE
11	457-122-86-00011	REMOTE SHUTDOWN CAPABILITY	OPEN		DUNLOP
12	457-155-87-01	55(E) 87-01 ON THE 2A DIESEL GENERATOR ROCKER ARM FAILURE	OPEN		JACOBSON

BRAIDWOOD CONSTRUCTION  
LIMITED REPORT

13:27 MONDAY, JANUARY 18, 1988 2

MODE=0

OBS	ITEM NUMBER	SUBJECT	STATUS	CLOSING REPORT	ORIG PERSON
13	457-100-86-033-10	NRC UNRESOLVED ITEM TO ANALYZE UNPROTECTED PORTION OF HIGH PRESSURE SCREWED CONNECTION ON DISCHARGE SIDE OF OIL LIFT PUMP.	READY		HOLMES
14	457-100-87-006-04	NRC UNRESOLVED ITEM TO JUSTIFY CLOSURE OF ALL DAMPERS REQUIRED TO UNDER AIR FLOW CONDITIONS	READY	IR 457/87-045	HOLMES
15	457-100-87-014-01	NRC OPEN ITEM REGARDING THE UPGRADING OF COMMERCIAL GRADE ITEMS TO A SAFETY RELATED APPLICATION	READY		KROPP
16	457-100-87-028-01	NRC OPEN ITEM TO TRACK COMPLETION OF LOCAL LEAK RATE TESTS	READY		MENDEZ
17	457-100-87-029-01	NRC VIOLATION ON FAILURE TO PROVIDE DOCUMENTATION TO VERIFY THAT PURCHASED ITEM MET MATERIAL REQUIREMENTS	READY		SUTPHIN <del>REYNOLDS</del>
18	457-100-87-029-02	NRC OPEN ITEM TO TRACK REVISION OF ATTACHMENT A OF QP 17-51	READY	457/87-046	REYNOLDS
19	457-101-79-00100	IEB 79-01: VERIFICATION THAT SAFETY RELATED EQUIPMENT WOULD FUNCTION UNDER ACCIDENT CONDITIONS	READY		FALEVITS
20	457-104-85-01300	GL 85-13: TRANSMITTAL OF NUREG-1154 REGARDING THE DAVIS-BESSE LOSS OF MAIN AND AUXILIARY FEEDWATER EVENT	READY		TONGUE
	457-100-87-002	IEB 87-02: FASTENER TESTING TO DETERMINE CONFORMANCE WITH APPLICABLE MATERIALS SPECS.			TONGUE
	457-100-87045-04	UNRES - SUMA SCREEN AREA WAS CONSIDERED FOR BLOCKAGE DUE TO SUPPORT STANCHIONS, BRACKETS, OR WIRE MESH.			TONGUE
	457-100-87046-03	UNRES - START DATE OF EQ CHECK AND FULL IMPLEMENTATION OF EQ PROGRAM, INCLUDING SCHED, ARE IN QUESTION.			REYNOLDS

BRAIDWOOD CONSTRUCTION  
LIMITED REPORT

13:27 MONDAY, JANUARY 18, 1988 3

MODE=1

OBS	ITEM NUMBER	SUBJECT	STATUS	CLOSING REPORT	ORIG PERSON
21	457-100-86-002-04	NRC OPEN ITEM TO TRACK THE TESTING AND CALIBRATION OF UNIT 1 AND COMMON AREA RAD MONITORS AND PROCESS RAD MONITORS.	OPEN READY		GRANT
22	457-100-86-002-10	NRC OPEN ITEM TO TRACK INSTALLATION OF CONTAINMENT HIGH-RANGE RADIATION MONITOR SYSTEM SUPPLIED BY GENERAL ATOMIC COMPANY.	OPEN READY		GILL
23	457-100-86-033-03	NRC OPEN ITEM TO TRACK COMPLETION OF INSTALLATION OF FIRE WRAPS TO PROTECT REDUNDANT TRAINS.	OPEN		HOLMES
24	457-100-86-033-06	NRC OPEN ITEM TO TRACK REMOVAL OF OBSTRUCTION OR RELOCATION OF SPRINKLER HEADS TO PROVIDE ADEQUATE PROTECTION.	OPEN		HOLMES
25	457-100-86-033-08	NRC OPEN ITEM TO TRACK SEALING OF GAPS AND OPENINGS IN THE STEEL HATCH COVERS ON ELEVATION 426 IN THE AUXILIARY BUILDING.	OPEN		HOLMES
26	457-100-86-033-04	NRC OPEN ITEM TO TRACK UPGRADING OF WALL BETWEEN REDUNDANT RHR PUMPS TO COMPLY WITH SECTION C.5.B OF THE FIRE PROTECTION GUIDELINES.	READY	IR 457/87-045	HOLMES
27	457-100-86-033-13	NRC OPEN ITEM TO PROVIDE ANALYSIS OF SIZE AIR FLOW, LOCATION, ETC. OF RUSKIN FIRE DAMPERS OR AS AN ALT. PROVIDE PLANT PROCEDURES FOR REVIEW	READY	IR 457/87-045	HOLMES
	457-100-87-035-01	NRC OPEN ITEM TRACKING OPERABILITY OF SECONDARY CHEMISTRY SAMPLE PANEL	OPEN		HOLTZMAN

BRAIDWOOD CONSTRUCTION  
LIMITED REPORT

13:27 MONDAY, JANUARY 18, 1988 4

MODE=2

OBS	ITEM NUMBER	SUBJECT	STATUS	CLOSING REPORT	ORIG PERSON
28	457-100-86-033-01	NRC OPEN ITEM TO TRACK PROPER CONFIG. OF SAFE SHUTDOWN COMPONENTS AND COMPLETION OF INSTALLATION AND TESTING OF EMERGENCY LIGHTING.	OPEN		HOLMES
29	457-100-86-033-02	NRC OPEN ITEM TO TRACK ADEQUACY OF COMMUNICATION BETWEEN REMOTE SHUTDOWN PANEL AND THE CONTAINMENT.	OPEN		HOLMES
30	457-100-87-031-02	NRC OPEN ITEM TRACKING COMPLETION OF SURVEILLANCE 4.6.2.2-1	OPEN		DUNLOP
31	457-100-87-031-04	NRC UNRESOLVED ITEM ON SET POINTS USED WHEN TESTING STEAM LINE SAFETY VALVES	OPEN		DUNLOP

Make = 1 ITEM

33	457-100-85-056-01	NRC OPEN ITEM TO TRACK DETECTION AND ANALYSIS OF CASES WHERE CONDUITS OF DIFFERENT CLASSES ARE IN CONTACT WITH EACH OTHER.	READY		FALEVITS
34	457-100-86-044-01	NRC UNRESOLVED ITEM FOR LACK OF EFFECTIVE HOUSEKEEPING IN THE UNIT 2 CONTAINMENT AND AUXILIARY BUILDINGS	READY	IR 457/87-045	TONGUE
35	457-100-87-029-03	NRC VIOLATION ON FAILURE TO HAVE CONTROLS TO EVALUATE THE PAST USE OF OUT OF CALIBRATION EQUIPMENT	READY		TELLA
36	457-100-87-042-01	NRC OPEN ITEM TRACKING COMPLETION OF U-2 A-MODEL	READY	IR 457/87-045	PLOSKI
37	457-101-83-00400	IEB 83-04: FAILURE OF THE UNDERVOLTAGE TRIP FUNCTION OF REACTOR TRIP BREAKERS	READY		FALEVITS
38	457-122-86-00001	RECIRCULATION SUMP SCREEN	READY	IR 457/87-045	TONGUE
	457-100-87045-03	VIDE-FAILURE TO PROVIDE INSTRUCTIONS OF TYPE APPROPRIATE TO CIRCUMSTANCES FOR PLANT EMERGENCY OPERATIONS.			TAYLOR
	457-100-87045-02	OPEN-4 PLANT AREAS DETERMINED TO HAVE NOT MET ALL ACCEPT. TEST CRITERIA			ULIE
	457-100-87046-01	UNRES- SIGNIFICANT BACKLOG OF DOW+ M+TE EVAL- UNTIMELY CORRECTIVE ACTION			REYNOLDS
	457-100-87046-02	UNRES. SAMPLING PROGRAM BEING REVISED.			REYNOLDS



ENCLOSURE 2

Status of License Conditions

The following are the license conditions identified in Attachment 1 to the Low Power License No. NPF-75.

1. The preoperational testing exceptions identified in the December 16, 1987 letter from S. C. Hunsader to Thomas E. Murley and component demonstrations identified in the December 17, 1987 letter from S. C. Hunsader to Thomas E. Murley shall be completed in accordance with the scheduled commitments contained in those letters.

Status: The test exemptions requested set several Modes as completion commitments. The testing committed to for Mode 4 is on schedule. The demonstrations committed to were fire suppression functional tests in three zones. Two of the three are complete and the remainder is scheduled for completion prior to entry into Mode 4 on February 2, 1988.

2. The 18 month surveillance activities for the Unit 2 2A Diesel Generator identified in the November 23, 1987 letter from S. C. Hunsader to Thomas E. Murley shall be accomplished as described in that letter.

Status: The mechanical surveillances on the diesel are complete. The operational surveillances are in progress and on schedule to meet entry into Mode 4.

3. The fire protection program work and compensatory measures identified in the December 16, 1987 letter from S. C. Hunsader to Thomas E. Murley shall be accomplished as described in that letter.

Status: Penetration fire seals committed to be complete by January 1, 1988 are complete. Cable tray and fire wrap work is on schedule to be completed by February 29, 1988, as committed, as is the one area with a commitment date of March 10, 1988, for completion.

4. The 18-month testing of the control room ventilation system identified in the December 11, 1987 letter from S. C. Hunsader to Thomas E. Murley shall be accomplished as described in that letter.

Status: The leakage test is complete on one train; the test of the second train is on schedule for completion prior to completion of the Unit 1 outage now in progress.



ENCLOSURE 3

Status of Inspections Required by MC 2513 and 2514

All modules in the NRC Region III inspection program required to be completed prior to operations at full power have been completed except as noted below:

MC 2513

<u>Module No.</u>	<u>Title</u>	<u>Percent Complete</u>	<u>Reason Not Completed</u>
64704	Fire Prevention/Protection	80	Note 1

Note 1: Inspection activity is scheduled pending completion of fire suppression testing committed to in a license condition.

MC 2514

Witnessing of the tests listed below will be performed prior to entry into Mode 1 (power greater than 5%).

<u>Module No.*</u>	<u>Test No.</u>	<u>Title</u>
72564	RP-70	Reactor Protection Logic
72566	RY-70	Pressurizer Spray, Heaters, and Bypass Flow
72572	RD-74A	Rod Worth Measurement-Dilution
	RD-74B	Rod Worth Measurement-Boration
	IT-70	Isothermal Temperature Coefficient
72578	IC-71	Full Core Flux Map
	IC-72C	IC/IT Map-Quarter Core
72592	NR-71	Initial Criticality
	FH-72	Initial Criticality and Low Power

\*NOTE: Modules listed are for the procedure review which will provide some guidance on specifics for witnessing. Module 72302 is the overall witnessing module. There are no specific witnessing modules for these tests, except for initial criticality (72592).