



UNITED STATES
NUCLEAR REGULATORY COMMISSION

REGION II
101 MARIETTA STREET, N.W.
ATLANTA, GEORGIA 30303

JUL 30 1984

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MEMORANDUM FOR: Harold R. Denton, Director, Office of Nuclear Reactor
Regulation

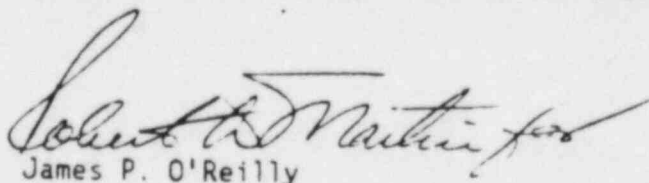
FROM: James P. O'Reilly, Regional Administrator

SUBJECT: READINESS FOR LICENSING - GRAND GULF

This memorandum is to advise you that Region II has reviewed and inspected outstanding items at Grand Gulf and conclude that the facility and operating staff are ready for a full power license. The inspection activities have included operational readiness team inspections, Standby Service Water Basin modifications, Technical Specifications change requests and results of the low power test program.

Based on our inspections and evaluations, all items addressed on Attachment 1 to license NPF-13 have been completed satisfactorily to support a full power operating license. Enclosure (1) of this memorandum addresses each item on Attachment 1 and references the documents that support the finding that these license conditions have been satisfied. It is our understanding, that NRR has action on Items 1.c and 3, (concerning control room leak tightness), and that they have been satisfactorily met and will be addressed in supplement No. 6 to the safety evaluation report.

Accordingly, Region II supports the issuance of a full power license for Grand Gulf.


James P. O'Reilly

Enclosure:
Status Listing of Attachment 1 Items

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This attachment identifies certain preoperational tests, system demonstrations and other items which must be completed to the Commission's satisfaction. The licensee shall not proceed without written confirmation from NRC that the following items have been completed in accordance with the conditions and schedule set forth below.

AMENDMENT
NO. 2

1. Prior to initial criticality the licensee shall complete to the satisfaction of the NRC the following open items and construction deficiencies:
 - a. Resolve issue regarding installation of automatic sprinklers in the auxiliary building which differs from the SER. (81-48-01) 8256C
 - b. Resolve issue regarding the lack of fire protection systems in certain areas as required by the FSAR. (82-34-01) 8256C
 - c. Resolve issue regarding maintaining the control room at greater than 1/8 inch water pressure. RESOLVED IN MP&L LETTER AECM 83/0333 (6/16/83)....TO BE ADDRESSED IN SUPPLEMENT NO.6 TO SER (NRR ACTION)
 - d. Determine cause of short in stator of division II diesel generator. (82-14) 8327C
 - e. Resolve issue regarding failure of relay in division I diesel generator voltage control. (82-15) 8321C
 - f. Resolve issue regarding uninsulated leads used in GE type HMA relay in RHR pump control circuitry. (82-17) 8242C
 - g. Resolve issue regarding defective threads on CRD housing support rods. (82-05) 8259C
 - h. Modifications to RCIC turbine mounting studs and lube oil piping support. 8259C
2. Prior to exceeding 5 percent power, the licensee shall complete to the satisfaction of the NRC the following NRC Bulletin item, open items, construction deficiencies and TMI-2 Action Plan Items:
 - a. The requirements of NRC Bulletin 79-BU-18 audibility problems encountered on evaluation alarm systems. 8330C
 - b. Completion and evaluation of the following preoperational tests.
 - (1) Feedwater Control System (1C34PT01) 8337C
 - (2) Traversing Incore Probe (1C51PT03) 8329C
 - (3) Loose Parts Monitor System (1C87PT01) 8329C
 - (4) Main Steam Line Radiation Monitoring System (1D17PT01) 8333C

- 8329C (5) Off Gas Radiation Monitoring System (1D17PT02)
- 8337C (6) Main Steam Isolation Valve Leakage Control System (1E32PT01)
- 8320C (7) Liquid Radwaste System (SF17PT02)
- 8320C (8) Solid Radwaste System (SG18PT01)
- 8320C (9) Off Gas System (1N64PT01)

c. Completion and evaluation of the following acceptance tests.

- 8337C (1) Main and Reheat Steam System (1N11AT01)
- 8337C (2) Auxiliary Steam System (SN12AT01)
- 8337C (3) Heater Vents and Drains System (1N23AT01)
- 8337C (4) Turbine Control Fluid System (1N32AT01)
- 8337C (5) Main and Reactor Feed Pumps Turbine Seal Steam and Drains (1N33AT01)
- 8309C (6) Lube Oil Storage and Conditioning (1N34AT01)
- 8337C (7) Turbine Lube Oil System (1N34AT02)
- 8351C (8) Generator/Generator Controls and Supervisory (1N41AT02)
- 8329C (9) Seal Oil System (1N42AT01)
- 8337C (10) Generator Cooling System (1N43AT01)
- 8337C (11) Hydrogen and Carbon Dioxide System (1N44AT01)
- 8337C (12) Exciter/Thyristor Voltage Regulator (1N51AT01)
- 8337C (13) Circulating Water System (1N71AT01)
- 8337C (14) Make-up Water Treatment System (SP21AT01)
- 8329C (15) Main Transformer System (1R14AT01)
- 8329C (16) 22KV Isophase Bus Ventilation System (1R24AT01)
- 83290 (17) Isophase Bus Ventilation Heat Load (1R24AT01)
- 8324C (18) Cathodic Protection System (1R62AT01)
- 8329C (19) Turbine Building Ventilation System (1V41AT01)

REQUIRES FULL
ELECTICAL OUTPUT

d. Completion and evaluation of the following special tests.

- 8429C (1) Balance of Plant Piping Vibration Monitoring (Portion prior to 5% power) (1C88ST04)
- 83490 (2) Balance of Plant Piping Expansion Monitoring (Portion prior to 5% power) (1C88ST05) SUFFICIENTLY COMPLETE TO OPERATE ABOVE 5%
- 8351C (3) Verification Test of Vibration, Expansion and Temperature Sensors on Balance of Plant Piping (1C88ST06)
- 8429C (4) Transient Test Equipment Verification (Portion prior to 5% power) (1C88ST07)
- e. Demonstrate full site personnel assembly and accountability. (81-44-08) 8257C
- f. Complete testing of radwaste discharge line. (82-21-07) 8258C
- g. Verify seismic adequacy of Bettis air actuators furnished with certain Henry Pratt butterfly valves. (81-44) 8419C
- h. Evaluate seismic qualification of standby diesel generator startup air compressor 3/8 inch sensor line. (82-04) 8244C
- i. Resolve inadequate flow in standby service water to RCIC system. (82-21) 8419C
- j. Resolve issue related to Division III Diesel Generator room ventilation system being inoperable. (82-25) 8261C
- k. Resolve failure of RWCU isolation valve not closing on Standby Liquid Control System initiation. (82-26) 8261C
- l. Resolve problem of Hiller actuators not fully closing valves on slow loss of air. (82-28) 8261C
- m. Resolve problem of excessive corrosion in Dikker safety relief valve actuators. (82-29) 8331C
- n. Determine effect of error in Bechtel's jet impingement analysis. (82-30) 8251C
- o. Determine cause of corrosion on terminal boards in Rosemont transmitters. (82-23) 8327C
- p. Resolve problems of yoke failures on Bettis actuators used on 24" Henry Pratt butterfly valves. (82-32) 8261C
- q. Resolve missing vacuum breakers on vent lines for the scram discharge volume. 8330C

r. Implementation of the following TMI-2 action plan (NUREG-0737) requirements.

- 8334C (1) 11.F.1.1 Modify procedures for accident monitoring instrumentation.
- 8334C (2) 11.F.1.2.a Install noble gas effluent monitor.
- 8334C (3) 11.F.1.2.b Provide monitoring for iodine particulate/gaseous effluents.
- 8334C (4) 11.F.1.2.c Install containment high range radiation monitors.
- (5) - - - - - Complete other NUREG-0737 items required for full power unless specifically exempted by the license.

All TMI Actions Items required for the issuance of a full power license have been completed. The close out date and associated report can be found on the "IE TMI ACTION ITEM COMPUTER STATUS LISTING." As indicated on this status listing, only six (6) items remain open; five of which are not required until startup following the first refueling outage. The sixth item (11.F.2.4) concerns the adequacy of instrumentation for detection of inadequate core cooling. License Condition 2.c.(44)(f), which required the licensee to submit a report addressing the analysis performed by the BWR Owners Group regarding this item, has been satisfied. Any determination for additional instrumentation or modifications resulting from NRR review of this report will be addressed in a later supplement to the SER and will be completed on a schedule acceptable to the staff.

APPENDMENT NO. 11

3. Prior to March 1, 1984, the licensee shall submit additional information as specified in MP&L letter dated August 23, 1983, that is acceptable to the NRC in support of the calculations of control room operator doses due to control room inleakage under accident conditions. Specifically, such information shall include the results of plant specific wind tunnel tests to establish an appropriate value for the concentration coefficient (K) used in establishing X/Q values and the results of other analyses performed in support of a limit on control room leakage higher than 263 cfm but less than or equal to 590 cfm. In the interim, based on a measured containment leak rate of 0.072%/day, a control room envelope leak rate of up to 590 cfm is acceptable. MP&L HAS SUBMITTED ADDITIONAL INFORMATION....TO BE ADDRESSED IN SUPPLEMENT NO.6 TO SER(NRR ACTION)

MEMORANDUM FOR: Darrell G. Eisenhut, Director, Division of Licensing, NRR

FROM: Richard C. Lewis, Director, Division of Reactor Projects

SUBJECT: READINESS FOR LICENSING - GRAND GULF

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According, Region II supports the issuance of a full power license for Grand Gulf.

Richard C. Lewis

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ATTACHMENT 1 TO LICENSE NFF-13

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AMENDMENT
NO. 2

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