

D. R. Muller, DRL

RE: MONTICELLO REACTOR FACILITY - STATUS AND PROBLEMS

The enclosed summary of the current status of construction and preoperational testing of the Monticello reactor facility is forwarded for information.

The licensee's schedule calls for issuance of the operating license on April 24, 1970. This schedule is considered by Compliance to be unrealistic unless an interim low power license is granted by DRL. If NSP and GE were to continue to apply the effort presently being expended onsite, and no new problems developed, it looks like the earliest we would be in a position to recommend to DRL that the full power provisional operating license be issued would be early June 1970.

Enclosure:
As stated

J. P. O'Reilly, CO

cc w/enclosure:
R. S. Boyd, DRL
R. H. Engelken, CO

D. F. Knuth, DRL
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7421 3/18/70

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DATE ▶	3/18/70	3/18/70				

ENCLOSURE

MONTICELLO - STATUS OF COMPLETION

A. Status of Construction, Including Construction Testing - 95% complete

1. Electrical - Erection of one incoming power line and installation of N₂ containment purge system, miscellaneous switchgear and certain radwaste instrumentation remain to be completed.
2. Mechanical - Major work remaining is installation of jet force and seismic restraints and installation of pipe insulation.
3. Audit of Primary Coolant Boundary Components (Table A) - NSP/GE audit is complete. Audit results have identified several areas which require resolution. DDR's prepared by GE and NSP are being reviewed by Compliance. All deviations from Table A will be forwarded to DRL.

B. Status of Preoperational Testing - 50% complete

1. All procedures have been written and approved by the licensee.
2. Procedure review by Compliance - 40% complete.
3. Major preoperational tests remaining to be completed:
 - a. Containment leak rate tests - primary and secondary containment.
 - b. Several tests of engineered safety features.
 - c. Cold functional test.
 - d. Control rod drive tests.

C. Status of Resolution of Outstanding Plant Quality Issues

1. NSP/GE audit of primary coolant boundary components. Major identified problem areas are:
 - a. Inadequate shop hydrostatic test of carbon steel pipe furnished by NAVCO.
 - b. Questionable RT of Target Rock safety-relief valves.
 - c. Incomplete PT records on 63 NAVCO shop welds.

- d. Traceability of main steam pipe by heat number.
2. Adequacy of reactor stack - CO is awaiting GE/Bechtel evaluation regarding conformance with FSAR and applicable codes.
3. NSP/GE/Bechtel audit of NAVCO records on engineered safety system components - 25% complete.
4. Mechanical system CO task force items - 90% complete.
5. Electrical system CO task force items - 90% complete.
6. Compliance review of applicable problems detected at other facilities - 40% complete.

D. Status of Punch List System

1. Compliance's review of system - 50% complete.
2. Periodic reviews will be made to determine correction of all known deficiencies related to safety.

E. Status of Health Physics Program - 90% complete

1. Compliance's review of program - 80% complete.

F. Status of Procedures

1. Operating and emergency procedures - complete and approved by licensee.
2. Emergency plan complete.
3. Fuel loading procedure - still under review by NSP and GE.
4. Startup testing procedure - still in preparation.
5. Compliance's review of procedures - 20% complete. The unavailability of the startup test procedures could result in a delay in completing our review.

G. Summary of Items That May Adversely Affect the Scheduled Completion Date of April 28, 1970

1. Completion of installation of jet force and seismic restraints.
2. Completion of one incoming power line.

3. Delivery on certain instruments for the radwaste facility.
4. Installation of the N₂ containment purge system.
5. Unanticipated problems that could arise as a result of preoperational testing.
6. Preparation and review of startup test procedures.
7. Regulatory review of sensitized stainless steel safe ends and possible modifications required at Monticello.
8. Results of NSP/GE/Bechtel's audit of important piping, fittings, and valves.

Northern States Power Company has been informed of all outstanding issues.