



UNITED STATES
 NUCLEAR REGULATORY COMMISSION
 REGION II
 101 MARIETTA ST., N.W., SUITE 3100
 ATLANTA, GEORGIA 30303

Report Nos. 50-369/82-47 and 50-370/82-40

Licensee: Duke Power Company
 422 South Church Street
 Charlotte, NC 28242

Facility Name: McGuire Units 1 and 2

Docket Nos. 50-369 and 50-370

License Nos. NPF-9 and CPPR-84

Inspection at the McGuire site near Charlotte, North Carolina

Inspectors:	<u>A. J. Ignatonis for</u>	<u>1-25-83</u>
	W. Orders	Date Signed
	<u>A. J. Ignatonis for</u>	<u>1-25-83</u>
	A. Ignatonis	Date Signed
	<u>A. J. Ignatonis for</u>	<u>1-25-83</u>
	H. Krug	Date Signed
	<u>A. J. Ignatonis for</u>	<u>1-25-83</u>
	K. Thomas	Date Signed
Approved by:	<u>A. J. Ignatonis for</u>	<u>1/25/83</u>
	A. J. Ignatonis, Acting Section Chief, Division of Project and Resident Programs	Date Signed

SUMMARY

Inspection on November 20 - December 20, 1982

Areas Inspected

This routine announced inspection involved 142 resident inspector-hours on site in the areas of plant operations, surveillance testing, maintenance activities, IE Bulletins, and followup on previous inspector identified items.

Results

Of the five (5) areas inspected, no items of noncompliance or deviations were identified.

DETAILS

1. Persons Contacted

Licensee Employees

- *M. McIntosh, Station Manager
- G. Cage, Superintendent of Operations
- E. Estep, Project Engineer
- *M. Sample, Project Engineer
- B. Barron, Operations Engineer, Unit 2
- G. Gilbert, Operations Engineer
- *D. Mendezoff, Licensing Engineer
- C. Van Vynckt, Staff Engineer

Other licensee employees contacted included construction craftsmen, technicians, operators, mechanics, security force members, office personnel.

*Attended exit interview

2. Exit Interview

The inspection scope and findings were summarized on December 22, 1982, with those persons indicated in paragraph 1 above. The inspection findings detailed below were discussed in detail. No dissenting comments were received from the licensee.

3. Licensee Action on Previous Inspection Findings

Not inspected.

4. Unresolved Items

Unresolved items were not identified during this inspection.

5. Plant Operations

The inspectors reviewed plant operations throughout the report period, November 20 - December 20, to verify conformance with regulatory requirements, technical specifications and administrative controls. Control room logs, shift supervisors' logs, shift turnover records and equipment removal and restoration records for the units were routinely perused. Interviews were conducted with plant operations, maintenance, chemistry, health physics, and performance personnel on day and night shifts.

Activities within the control rooms were monitored during all shifts and at shift changes. Actions and/or activities observed were conducted as prescribed in the Station Directives. The complement of licensed personnel on each shift met or exceeded the minimum required by technical

specifications. Operators were responsive to plant annunciator alarms and appeared to be cognizant of plant conditions.

Plant tours were taken throughout the reporting period on a frequent basis. During the plant tours, ongoing activities, housekeeping, security, equipment status and radiation control practices were observed.

McGuire Unit 1 began the report period preparing to restart following the 14 day outage which began November 6 to inspect and plug degraded steam generator tubes. The unit achieved criticality at 9:53 p.m. on November 20, was placed on line at 11:32 p.m. and achieved 50% power the following day. NOTE: 50% power is currently the maximum power allowed pending modification of the steam generators. The unit has virtually operated at 50% power through the entire inspection period except for brief periods of lower power level for grid load following.

6. Surveillance Testing

The surveillance tests detailed below were analyzed and/or witnessed by the inspector to ascertain procedural and performance adequacy.

The completed test procedures examined were analyzed for embodiment of the necessary test prerequisites, preparations, instructions, acceptance criteria and sufficiency of technical content.

The selected tests witnessed were examined to ascertain that current written approved procedures were available and in use, that test equipment in use was calibrated, that test prerequisites were met, system restoration completed and test results were adequate.

The selected procedures perused attested conformance with applicable Technical Specifications, have received the required administrative review and have been performed within the surveillance frequency prescribed.

<u>Procedure</u>	<u>Title</u>
IP-0-A-3010-05	Solid State Protection System
PT-1-A-4350-11A	125 VDC D/G Battery Test
PT-0-A-4600-14A	Nuclear Instrumentation System
PT-1-A-4600-01	RCCA Movement Test
PT-1-A-4403-01B	Nuclear Service Water
PT-1-A-4150-01B	Reactor Coolant Leakage
PT-1-A-4600-10	Loose Parts Monitor

TP-2-A-1200-30	Containment Air Return/Hydrogen Skimmer Fan Test
PT-1-A-4600-05	EMF Functional Test
IP-0-A-3200-12	Process 7300 Controller (NCB) Card Calibration

7. Maintenance Activities

Maintenance activities were observed and/or reviewed throughout the report period to ascertain that the work was being performed by qualified personnel, that activities were accomplished employing approved procedures or the activity was within the skill of the trade. Limiting conditions for operation were examined to ensure that technical specification requirements were satisfied. Activities, procedures, and work requests were examined to ensure adequate fire protection, cleanliness control and radiation protection measures were observed, and equipment was properly returned to service.

Acceptance criteria employed for this review included but was not limited to:

STATION DIRECTIVES
ADMINISTRATIVE POLICY MANUAL
TECHNICAL SPECIFICATIONS
TITLE 10 CFR.

Detailed below are 11 maintenance activities which were observed and/or reviewed during the report period:

<u>WORK REQUEST</u>	<u>EQUIPMENT</u>
110371	2CF-26
110059	2NC-1
106273	2NV-2A
83594	2IKE
34849	2RC RTD
92026	IND-2A
111023	D/G Volt Reset
92026	IND-2A
110379	Main Turbine
53421	Snubber Survey
53391	2D RC Pump

8. IE Bulletins

(Closed) IEB 80-04

IE Bulletin 80-04 requires a review of the steam line break analysis with continued feedwater addition. The licensee responded to this bulletin by letter dated May 7, 1980. The NRC staff and their consultant, Franklin Research Center, have completed the review of the licensee's submittal and have found it to be acceptable with no further action required. NRC's findings are provided in the October 14, 1982 letter to the licensee. This bulletin is closed.

(Closed) IEB-81-02

IE Bulletin 81-02 pertains to the concern on the failure of certain type of gate valves failing to close against differential pressure. The licensee has conducted a search for existence of the subject W - EMD manufactured motor-operated gate valves and has determined that they have not been installed nor maintained in any safety related system. This was documented in the licensee's letter to the NRC dated September 17, 1981.

9. Inspector Followup Items

(Closed) Inspector Followup Items (369/81-36-03, 370/82-33-03):

Upgrade emergency communications with additional radios. The inspector verified that an adequate number of radios are available for emergency plan use if required. This item is closed.

(Closed) Inspector Followup Items (369/81-36-04, 370/81-33-04):

Waste holdup pond modifications. Based on engineering evaluation of the holdup ponds the licensee determined that no modifications were required for pond outlet lines. The inspector concurred with the decision. This item is closed.

(Closed) Inspector Followup Item (370/82-20-01):

Incorporate pen and ink changes into test procedures prior to its use. The inspector randomly selected several test procedures for review and determined that the licensee maintains legible copies for use with minimum use of pen and ink changes. This item is closed.