NUCLEAR REGULATORY COMMISSION

REGION III

Report No. 50-305/89014(DRP)

Docket No. 50-305 License No. DPR-43

Licensee: Wisconsin Public Service Corporation
P. O. Box 19002
Green Bay, Wisconsin 54307-9002

Facility Name: Kewaunee Nuclear Power Plant

Inspection At: Kewaunee Site, Kewaunee, Wisconsin

Inspection Conducted: September 16 through November 4, 1989

Inspectors: R. L. Nelson
J. S. Stewart
P. I. Castleman

Approved By: R. L. Hague
Reactor Projects Section 3C

Date 11/22/89

Inspection Summary

Inspection from September 16, through November 4, 1989
(Report No. 50-305/89014(DRP))
Areas Inspected: Routine unannounced inspection by resident inspectors of operational safety, surveillance, maintenance, and followup of open items.
Results: The inspectors identified one violation in the area of Personnel Access Control. The licensee's performance in all other areas continued to be good.

DETAILS

1. Persons Contacted

*M. L. Marchi, Plant Manager
K. H. Weinhauer, Assistant Manager, Plant Maintenance
C. A. Schrock, Assistant Manager, Plant Operations
*R. E. Draheim, Assistant Manager, Plant Support
J. J. Wallace, Superintendent, Plant Instrument and Control
D. R. Berg, Superintendent, Plant Quality Control
D. T. Braun, Superintendent, Plant Operations
M. T. Reinhart, Superintendent, Plant Radiation Protection
R. P. Pulec, Superintendent, Plant Technical
*D. S. Nalepka, Plant Licensing Supervisor
P. M. Lindberg, Plant Engineering Projects Supervisor
G. J. Youngworth, Plant Electrical Maintenance Supervisor
*F. D. Evitch, Plant Security Supervisor
*T. J. Webb, Plant Nuclear Engineer

The inspectors also talked with and interviewed members of the Operations, Maintenance, Health Physics, Instrument and Control, Quality Control, Chemistry, and Security groups.

*Denotes personnel attending exit interviews.

2. Followup (92701)

Information Notices

(Closed) Information Notice (IN) 88-67: "PWR Auxiliary Feedwater Pump Overspeed Trip Failure"

The licensee performed Operational Events Assessment No. 88-201 in response to IN 88-67. To date, the licensee has not performed overspeed trip testing of the TDAFW pump. The present governor does not allow the turbine to be taken to the speed of the overspeed trip (approximately 4140 rpm). Engineering support has been requested to propose a procedure for accomplishing overspeed trip testing during the 1990 refueling outage. Periodic inspections of the tappet ball used in the overspeed mechanism will also be considered. The tappet ball was last inspected in February 1988 and found to be in good condition.

All activities were conducted in a satisfactory manner and no violations or deviations were identified.

3. Operational Safety Verification (71707)

The inspectors observed control room operations, reviewed applicable logs and conducted discussions with control room operators throughout the inspection period. The inspectors verified the operability of selected safety-related systems, reviewed tagout records, and verified proper return to service of affected components. Tours of the auxiliary and turbine buildings were conducted. During these tours, observations were made relative to plant equipment conditions, fire hazards, fire

protection, adherence to procedures, radiological control and conditions, housekeeping, tagging of equipment, ongoing maintenance and surveillance, containment integrity, and availability of safety-related equipment. The inspectors observed a number of control room shift turnovers. The turnovers were conducted in a professional manner and included log reviews, panel walkdowns, discussions of maintenance and surveillance activities in progress or planned, and associated LCO time restraints, as applicable.

During the inspection period, the inspectors walked down the accessible portions of the Auxiliary Feedwater (AFW) System. Items checked included: an operational valve lineup; proper housekeeping including control of flammable materials; normal pump seal and valve stem leakages; proper electrical breaker and switch lineup; operable instrumentation including pressure monitors and valve position indications; and proper lineup of the service water and condensate storage support systems. Overall, the system, including both the motor driven and turbine driven pumps, appeared to be in a sound state of operational readiness and no problems were identified.

During routine tours of the facility, the inspectors observed the licensee's security activities including: badging of personnel; access control; security walkdowns; security response (compensatory actions); control of visitors; security staff attentiveness; and operation of security equipment. During these activities one violation involving inadequate escorting practices was identified. Details are in Attachments 1 and 2 to this report.

4. Monthly Surveillance Observation (61726)

The inspector reviewed/observed the following Technical Specification required surveillance testing:

Surveillance Procedure	Test
14-026	Auxiliary Building Special Ventilation Monthly Test
49-075	Control Rod Exercise
87-151	Weekly Instrument Channel Checks
24-107	Shield Building Vent (SBV) Monthly Test
48-004D	Nuclear Power Range Channel N44 Quarterly Calibration

The following items were considered during the inspection: the testing was performed in accordance with adequate procedures; that test instrumentation was calibrated; that test results conformed with technical specifications and procedure requirements and were reviewed by personnel other than the individual directing the test; and that any deficiencies identified during the testing were reviewed and resolved by appropriate management personnel. No deficiencies were identified during the inspection.

All activities were conducted in a satisfactory manner and no violations or deviations were identified.

5. Monthly Maintenance Observation (62703)

Station maintenance activities of safety-related systems and components listed below were observed/reviewed to ascertain if they were conducted in accordance with approved procedures, regulatory guides, industry codes or standards, and in conformance with technical specifications.

The following items were considered during this review: the limiting conditions of operation were met while components or systems were removed from service; approvals were obtained prior to initiating the work; activities were accomplished using approved procedures and were inspected as applicable; functional testing and/or calibrations were performed prior to returning components or systems to service; parts and materials used were properly certified; radiological controls were implemented; and fire prevention controls were implemented.

The following maintenance activities were observed/reviewed:

No.	Activity
41738	Replaced heating tape for Circuit No. 31A on suction line from Boric Acid Storage Tank 1B
45509	Replaced detector for radiation monitoring channel R-14 and calibrated the channel
45912	Added and readjusted packing on service water strainer 1B1
44042	
44972	Recalibrated instrumentation for letdown flow pressure control valve
45401	Replaced ESF feedwater isolation relay because of sluggish actuation - tested the replacement per SP 55-155A

No.	Activity
41107	Rebuilt governor linkage on turbine driven auxiliary feedwater pump - tested per SP 05B-105
40335	Replaced rollers, center pins and shifting bars on vari-driven for charging pump 1B - flow tested pump following repairs

All activities were conducted in a satisfactory manner and no violations or deviations were identified.

6. Exit Interview (30703)

The inspectors met with licensee representatives (denoted in Paragraph 1) throughout the period and on November 6, 1989, and summarized the scope and findings of the inspection activities.

The inspector also discussed the likely informational content of the inspection report with regard to documents or processes reviewed by the inspector during the inspection. The licensee did not identify any such documents or processes as proprietary.

Attachments:
1. Notice of Violation
2. Operational Safety Verification
   (UNCLASSIFIED SAFEGUARDS INFORMATION)