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NORTHERN STATES POWER COMPANY

MINNEAPOLIS, MINNESOTA 55401

August 1, 1979

Mr. James G. Keppler
Director - Region III
Office of Inspection and Enforcement
United States Nuclear Regulatory Commission
799 Roosevelt Road
Glen Ellyn, Illinois 60137

Dear Mr. Keppler:

PRAIRIE ISLAND NUCLEAR GENERATING PLANT
Dockets No. 50-282 and No. 50-306

In response to Item 1 of IE Bulletin No. 79-14, the following is offered:

A. Inspection Elements

1. ASME code classification drawings (NF-39806 through NF-39845), Prairie Island FSAR and Regulatory Guide 1.29. These documents were used to help provide the systems and system boundaries to be used during the inspection.
2. Large and small bore isometric drawings. These drawings contain, typically, the following information:
 - a. piping geometry
 - b. type and location of pipe hangers, supports, restraints, anchors, etc.
 - c. size and type of pipe fittings
 - d. pipe attachment details
 - e. valve locations
3. Valve drawings. These drawings will be used by Fluor Power Services, Inc., to check weight input to the seismic analysis.
4. Hanger drawings. These drawings typically include
 - a. type, location, function, and clearance of supports, restraints, anchors, hangers, etc.
 - b. elevation and attachment/termination points
 - c. support/restraint design configuration
5. Teledyne Engineering Services Procedure P-3697-1. This procedure provides the instruction for conducting the inspection of the piping systems.

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B. Inspection Approach

1. The ASME drawings, FSAR and Regulatory Guide 1.29 are used to establish what systems to inspect and the system boundaries to apply.
2. From the boundary documents, the lines to be inspected are obtained.
3. For each line, the isometric drawings (large and small bore) are obtained.
4. From each isometric drawing, the associated hanger numbers are obtained. Hanger drawings are then retrieved.
5. The inspection package is then put together. The package includes the isometric drawings and its associated hanger drawings and a cover sheet listing the isometric and hanger drawings included.
6. With the inspection package, the walkdown crew inspects the piping system per the Teledyne Engineering Services Procedure P-3697-1.
7. After the inspection, a data sheet from the procedure and marked up drawings (if any discrepancies exist) are provided.
8. Discrepancy Reports are made for any nonconformance found during the inspection.
9. The list of drawings used, discrepancies found, and marked-up drawings are forwarded to Fluor Power Services.
10. Fluor Power Services will check the drawings used, marked-up drawings, and the discrepancy reports for conformance to the seismic analysis.

C. Design Documents

The following is a list of design information which was used as sources of input information for the seismic analysis:

1. Seismic Response Spectra and Building Relative Displacement Information

- a. John A. Blume and Associates, Engineers, Prairie Island Nuclear Generating Plant Earthquake Analysis: Reactor - Auxiliary - Turbine Building Report No. JAB-PS-02, 1/22/71 Revision.

It contains the maximum accelerations and displacements at specified elevations of every building.

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- b. John A. Blume and Associates, Engineers, Prairie Island Nuclear Generating Plant Earthquake Analysis: Reactor - Auxiliary - Turbine Building response acceleration spectra Report No. JAB-PS-04, 2/16/71 Revision.

It contains response acceleration spectra for each floor and/or selected elevations of each building.

2. Piping Information

- a. The line lists as tabulated on drawings NH-39370 for Unit #1 and NG-39405 for Unit #2 were used for piping sizes, material specifications, design temperature and pressure, and insulation information.
- b. Isometric piping drawings were used for the field routed pipe stress analysis.
- c. Shop fabricated piping pipe stress analysis utilized the physical drawings.
- d. In the two cases of isometric drawings and physical drawings, revisions to these drawings were reviewed by a pipe stress engineer (A/E) and any analytical part affected by a revision was revised. Therefore, the pipe seismic analysis agrees with the latest Fluor Power Services (A/E) revision of these drawings.

3. Valve Information

The latest valve manufacturer's drawings submitted to Fluor Power Services were reviewed and revisions were made to the pipe seismic analysis as required.

4. Design Criteria

NSP, Prairie Island Nuclear Generating Plant, Final Safety Analysis Report, Appendix B, Section B-7, Amendment 11, 9/20/71.

It contains codes, stress combinations, and allowable stress levels required to perform the stress analysis.

D. Scope

The following systems (or portions thereof) will be included in the inspection scope:

- 1. Steam Generator Blowdown
- 2. Main and Auxiliary Steam

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3. Auxiliary Feedwater
4. Reactor Coolant
5. Residual Heat Removal
6. Safety Injection
7. Containment Spray
8. Chemical and Volume Control
9. Component Cooling Water
10. Cooling Water
11. Waste Disposal
12. Spent Fuel Pool Cooling
13. Fuel and Diesel Oil
14. Caustic Addition
15. Post LOCA Hydrogen Control

E. Time Table

The inspection program is underway. All Unit 1 containment systems included in the scope have been walked down. This work was accomplished as the result of the unit being shutdown for turbine maintenance. Work is underway to inspect all of the Unit 1 and Unit 2 areas outside of Unit 2 Containment Building with the goal of completing the walkdown by the end of the 60 day period. The only area left would be the Unit 2 containment.

Since the Unit 1 containment inspection revealed no significant nonconformances, the Unit 2 containment inspection will be done at the next scheduled refueling outage (January, 1980) or earlier if an unplanned outage of sufficient duration occurs.

Certain portions of systems are not accessible at any time. These portions of systems will not be inspected as a part of satisfying this bulletin. These include the containment spray ring headers, buried fuel oil piping, piping embedded in concrete, and certain portions of pipe very close to the reactor vessel.

Yours very truly,



L. J. Wachter
Vice President - Power Production
and System Operation

cc: Mr. G. Charnoff
Director - Office of Inspection and Enforcement
Washington, D.C.
Director - Division of Operating Reactors
Washington, D.C.

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