

APPENDIX

U.S. NUCLEAR REGULATORY COMMISSION  
REGION IV

NRC Inspection Report: 50-482/86-27

License/CP: NPF-42

Docket: 50-482

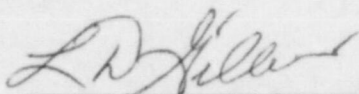
Licensee: Kansas Gas and Electric Company  
P. O. Box 208  
Wichita, Kansas 67201

Facility Name: Wolf Creek Generating Station

Inspection At: Wolf Creek Site, Coffey County, Burlington, Kansas

Inspection Conducted: November 3-6, 1986

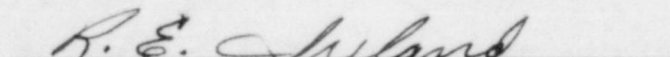
Inspector:



L. D. Gilbert, Reactor Inspector, Engineering  
Section, Reactor Safety Branch

12/1/86  
Date

Approved:



R. E. Ireland, Chief, Engineering Section  
Reactor Safety Branch

12/1/86  
Date

Inspection Summary

Inspection Conducted November 3-6, 1986 (Report 50-482/86-27)

Areas Inspected: Routine, unannounced inspection of inservice inspection activities.

Results: Within the one area inspected, no violations or deviations were identified.

DETAILS1. Persons ContactedPrincipal Licensee Personnel

- \*G. D. Boyer, Deputy Plant Manager
- \*C. M. Estes, Superintendent of Operations
- \*M. G. Williams, Superintendent of Regulatory, Quality and Administrative Services
- \*J. W. Johnson, Chief of Security
- \*V. J. Mactaggart, Results Engineering Supervisor
- \*J. L. Blackwell, Fire Protection Coordinator
- \*T. L. O'Hearn, Lead Engineer, Nuclear Plant Engineering
- \*W. M. Lindsay, Supervisor, Quality Systems
- \*C. J. Hoch, QA Technologist
- \*G. J. Pendergrass, Licensing Engineer
- S. W. Lucas, Results Engineering
- J. T. Holland, Senior Engineer, Nuclear Plant Engineering
- B. Collier, ISI Engineer
- J. Mah, Results Engineer
- J. C. Goode, Licensing Engineer

Other Personnel

- M. Shallis, ISI Supervisor, NDE Level III, Nuclear Energy Services, Inc.
- J. A. Winkel, Authorized Nuclear Inservice Inspector, Kemper Group

The NRC inspector also interviewed other licensee and contractor personnel.

\*Denotes those attending the exit interview.

2. Inservice Inspectiona. Review of Program

The NRC inspector selectively reviewed the KG&E inservice inspection program for volumetric and surface examinations of ASME Class 1, 2, and 3 systems and components. The following documents were included in the review:

- o Procedure ADM 05-107, Revision 0, "ASME Section XI Inservice Inspection."
- o Program Plan 83A1710, Revision 1, "Reactor Pressure Vessel."
- o Program Plan 83A1708, Revision 2, "Steam Generator."
- o Procedure ADM 07-407-9, Revision 9, "WCGS Document Control."

- o Program Plan 83A1709, Revision 1, "Pressurizer."
- o Program Plan 83A1700, Revision 1, "Reactor Coolant System."

In the areas reviewed, the inservice inspection program was consistent with the regulatory requirements of 10 CFR 50.55a.

b. Review of Procedures

The NRC inspector reviewed the following nondestructive examination (NDE) procedures used by Nuclear Engineering Services (NES) for performing inservice inspections.

- o Procedure 83A1721, Revision 4, "Liquid Penetrant Examination Procedure."
- o Procedure 83A1728, Revision 1, "Ultrasonic Examination Procedure for Studs and Bolts."
- o Procedure 80A9068, Revision 3, "Procedure for Certifying Nondestructive Examination Personnel."
- o Procedure 83A1722, Revision 4, "Procedure for Magnetic Particle Examination."
- o Procedure 83A1725, Revision 1, "Ultrasonic Examination Procedure for Pressurizer and Steam Generator Nozzle Inner Radius Areas."
- o Procedure 83A1717, Revision 2, "Ultrasonic Examination Procedure General Requirements."

In the areas reviewed, the above procedures were consistent with requirements of Section XI of the ASME Boiler and Pressure Vessel Code 1980 Edition, through the Winter 1981 addenda.

c. Observation of Work

The NRC inspector observed the following inservice inspection examinations:

- o Ultrasonic examination of the primary inlet nozzle inner radius for "B" steam generator.
- o Ultrasonic examination of the primary outlet nozzle inner radius for "B" steam generator.
- o Magnetic particle examination of the reactor vessel head closure nuts.
- o Ultrasonic examination of the support pad bolts for "A" steam generator.

In the areas inspected, the examinations were performed in accordance with the examination procedure using NES personnel certified as a Level II and examination materials certified for maximum content of contaminants.

d. Review of Records

The NRC inspector reviewed the following inservice inspection examination reports:

- o Data Sheet No. 1721-14 for liquid penetrant examination of welds 1-RV-301-121A and 1-BB-01-F103 on reactor vessel outlet nozzle "A."
- o Data Sheet No. 1721-13 for liquid penetration examination of welds 1-RV-301-121-D and 1-BB-01-F403 on reactor vessel outlet nozzle "H."
- o Data Sheet No. 1721-12 for liquid penetrant examination of welds 1-RV-301-121-C and 1-BB-01-F303 on reactor vessel outlet nozzle "E."
- o Data Sheet No. 1721-22 for liquid penetrant examination of welds 1-RV-301-121-B and 1-BB-01-F203 on reactor vessel outlet nozzle "D."
- o Data Sheet No. 1728-2 for ultrasonic examination of 24 support pad bolts on steam generator "A."
- o Data Sheet No. 1725-2 for ultrasonic examination of the primary inlet and outlet inner radius areas on steam generator "B."
- o Data Sheet No. 1718-1 through 1718-4 for ultrasonic examination of welds 1-BB-01-F001, 1-BB-01-F002, 1-BB-01-F004B on the reactor coolant system surge line.
- o Data Sheet No. 1719-14 for ultrasonic examination of welds 1-AB-01-F006 and 1-AB-01-F097 on the main steam line.
- o Data Sheet No. 1722-2 through 1722-4 for magnetic examination of 24 reactor vessel head closure nuts.
- o Results of the eddy current testing of steam generators "B" and "C." Approximately 7 percent of the tubes in the two generators were inspected. No tubes were required to be plugged.

In the areas inspected, the records were complete, the data was within the previously established acceptance criteria, and the licensee was utilizing the services of a third party inspection agency in the inservice inspection program.

No violations or deviations were identified.

3. Exit Interview

The NRC inspector met with licensee representatives (denoted in paragraph 1) and B. L. Bartlett, NRC resident inspector, on November 6, 1986, and summarized the scope and findings of the inspection.