

U. S. NUCLEAR REGULATORY COMMISSION
OFFICE OF INSPECTION AND ENFORCEMENT

REGION IV

Report No. STN 50-482/80-11

Docket No. STN 50-482

Category A2

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

Facility Name: Wolf Creek, Unit No. 1

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

Inspection conducted: May 27-30, 1980

Inspectors: W. A. Crossman 6/13/80
for L. E. Martin, Reactor Inspector, Projects Section Date
(Paragraphs 1, 2, 3, 6, 7 & 8)

R. E. Hall 6/13/80
for L. D. Gilbert, Reactor Inspector, Engineering Date
Support Section (Paragraphs 4 & 5)

Reviewed: W. A. Crossman 6/13/80
for C. R. Oberg, Reactor Inspector, Projects Section Date

Approved: W. A. Crossman 6/13/80
for W. A. Crossman, Chief, Projects Section Date

R. E. Hall 6/13/80
R. E. Hall, Chief, Engineering Support Section Date

Inspection Summary:

Inspection on May 27-30, 1980, (Report No. STN 50-482/80-11)

Areas Inspected: Licensee action on previous inspection findings; safety-related pipe welding; containment penetration welding; electrical raceway and equipment installation; and IE follow up on licensee identified deficiencies. The inspection involved forty-eight inspector-hours by two NRC inspectors.

Results: Of the five areas inspected, one item of noncompliance was identified in one area (infraction - failure to specify appropriate acceptance criteria - paragraph 5).

DETAILS

1. Persons Contacted

Principal Licensee Personnel

- *M. E. Clark, QA Manager Site
- D. W. Prigel, QA Engineer
- G. W. Reeves, QA Engineer
- *D. G. Plasce, QA Technical Auditor
- *J. L. Stokes, Assistant Construction Manager

Daniel International (Daniel) Personnel

- *T. Damashek, QC Engineer, Civil
- *C. E. Hackney, QA Engineer, Welding
- M. Dugan, Electrical QC Inspector
- D. C. McBee, Welding General Foreman
- C. Light, Pipe Department General Foreman
- M. G. Wiggins, Pipefitter Foreman
- B. G. Bullard, Project Welding Engineer
- D. J. Dennison, Assistant QC Manager

SNUPPS

R. D. Brown, Site Representative

Kansas Electric Power Cooperative

A. Mee, Engineer

*Denotes those present at the exit interview

The IE inspectors also interviewed other licensee and contractor personnel during the course of the inspection.

2. Licensee Action on Previous Inspection Findings

(Closed) Infraction (50-482/80-05): Failure to Provide Appropriate and Prompt Corrective Action. The reactor vessel internals have been relocated to in-place storage inside containment and the reactor head has been relocated to a new sheet metal storage building in an area that is not susceptible to flooding. These actions should preclude water ingress into the storage areas for these components.

This item is considered closed.

(Open) Unresolved Item (50-482/80-05): Concrete Expansion Anchors. Daniel had initiated a Request for Clarification of Information (RCI No. 7153) to determine if there were criteria for the minimum distance that a replacement anchor can be located from an abandoned anchor. The response on the RCI from Bechtel Site Liaison Engineer stated that there were no criteria.

The IE inspector asked the responsible individual if this statement meant that there was not a requirement for criteria or if he could not find the criteria. The individual stated that he was not able to identify or locate any criteria for the minimum spacing from abandoned anchors.

This item will remain open until Bechtel can furnish data substantiating that the repair and installation methods that have been used for concrete expansion anchors meet the requirements for loading plus safety factor of the original design.

(Open) Unresolved Item (50-482/79-07): II/I Problem with Electrical Procedures. Interim Change (ICP) No. 156 to QCP-X-302 now includes within its scope II/I and indicates that the inspection requirements are the same as Class IE. The craft procedures are now undergoing revision to include the II/I requirements.

This item will remain open pending revision of all pertinent procedures.

3. Site Tour

The IE inspectors walked through the Reactor Building, Auxiliary Building Control Building, and various outside storage areas to observe construction activities in progress and housekeeping practices.

No items of noncompliance or deviations were identified.

4. Safety-Related Piping

The IE inspector observed welding of safety-related piping in the following systems:

a. Boron Refueling Water Steam (Drawing I-M-03BN01(Q))

<u>Field Weld</u>	<u>Activity</u>
F 40	Fit Up Inspection and Root Welding
FW 901	Interpass Temperature Monitoring
F 014	Fill Welding
F 016R-2	Final Visual Inspection

b. Chemical and Volume Control System (Drawing I-M-03BG01(Q))

<u>Field Weld</u>	<u>Activity</u>
F 025	Fit Up Inspection, Root and Fill Welding
F 022	Final Visual Inspection

In the areas inspected, no discrepancies from the requirements of welding procedure CWP-507 and visual inspection procedure QCP-VII-200 were noted.

Welding filler materials were observed to be controlled and traceable to certified material test reports as required by the procedure for Control of Welding Consumables (CWP-503). The Material Receiving Reports (MRR) for the following filler material heat numbers were inspected:

<u>Heat Number</u>	<u>MRR Number</u>
7D21B Mix12	3435
411J4141	41727
462571	30669

No items of noncompliance or deviations were identified.

5. Penetration Assemblies

The IE inspector observed welding being accomplished on Field Weld FW 537 using the Gas Tungsten-Arc Welding process and welding procedure technique sheet N-1-1-BA-1, Revision 4. FW 537 is identified on sheet D-2 of Drawing C-OL-2916(Q)01 as a Class MC butt welding in penetration E-283 with Bechtel Specification 10466-M-204 as the control document. Specification 10466-M-204, paragraph 5.6.1 specifies requirements for making penetration welds in accordance with NE-4000, Class MC. In addition to technique sheet N-1-1-BA-1; technique sheet N-1-8-BA-24, Revision 0, a procedure specifically issued for welding carbon steel to stainless steel for NE-4000 applications; and QCP-VII-200, Revision 5, the visual inspection procedures were selectively reviewed for compliance with NE-4000.

The IE inspector determined that these procedures are not in compliance with NE-4000, in that the limits for maximum reinforcement of butt welds specified in N-1-1-BA-1, N-1-8-BA-24 and QCP-VII-200 are less restrictive than required in NE-4000, paragraph NE-4426 of ASME Code, Section III, 1974 Edition through Summer 1975 Addenda. For example, NE-4426 limits maximum reinforcement to 3/32 inch for a material thickness of one inch, whereas, the welding technique sheets and Quality Control procedure permit a maximum reinforcement of 3/16 inch for a material thickness of one inch. For all nominal material thicknesses greater than 1/8 inch, the procedural allowance is greater than the allowance permitted by NE-4426.

This is an apparent item of noncompliance with Criterion V of 10 CFR 50, Appendix B, in that these procedures did not specify appropriate acceptance criteria.

6. Electrical Systems and Components

The IE inspector observed the partial installation of one 480 volt motor control center (NGO2A) and one cable tray support (331-08). Neither installation was complete, but the IE inspector inspected the partial installation for compliance with the following engineering and construction documents:

480 Volt MCC NG021

Manufacturer's I.B. 10466-E-018-0190-06

Bechtel Specification 10466-E-018

Daniel Work Assignment WA-EI-331-03

Design Change Notice DCN C-003-Rev. 8

Deficiency Report DR 1SD3516EW

Bechtel Drawing EOR3311, Rev. 14

Bechtel Drawing C-0C331, Rev. 9

Bechtel Drawing E-018-0043-04

Cable Tray Support 331-08

Bechtel Drawing EOR-3311, Rev. 14

Bechtel Drawing C-0401(Q), Rev. 8

Bechtel Drawing C-0402(Q), Rev. 7

Bechtel Drawing C-0403(Q), Rev. 9

Bechtel Drawing C-0404(Q), Rev. 9

Daniel Field Sketch FSK-E-331, Rev. 11

Daniel Work Assignment WA-EI-331-01

QC Raceway Support Checklists Dated
April 9, April 5, March 1, and March 8, 1979 for support
0331-08

The IE inspector also reviewed the certification records for two Level II and one Level I Electrical QC inspectors for compliance with ANSI N45.2.6.

No items of noncompliance or deviations were identified.

7. Follow Up on Licensee Identified Deficiencies

The IE inspector discussed the potential 50.55(e) item concerning Rockbestos cable jacket extrusion defects reported to NRC on April 3, 1980, and KG&E's letter of May 8, 1980, informing the NRC, that based on testing by Rockbestos, that the jacket defects do not constitute a 10 CFR 50.55(e) deficiency. The Rockbestos testing, according to KG&E, shows that the cable still meets the specification requirements and the original IEEE-323 test requirements.

The test documentation was not available on site, but KG&E advised the IE inspector that it would be on site for review during a subsequent inspection.

The IE inspector observed the termination problems with Bunker-Ramo electrical penetrations. The licensee had identified improper crimps on lugs, undersized lugs, and improper insulation stripping. Bunker-Ramo representatives were on site to determine corrective actions. This problem was reported to NRC on May 19, 1980, and was KG&E's response to investigating a SNUPPS 50.55(e) of March 14, 1980, at Callaway.

These items will remain open until the licensee submits his report as required by 10 CFR 50.55(e).

8. Exit Interview

The IE inspectors met with licensee representatives (denoted in paragraph 1) at the conclusion of the inspection on May 30, 1980. The IE inspector summarized the scope and findings of the inspection. The item of noncompliance was acknowledged by the licensee representatives.