WOLF CREEK
NUCLEAR OPERATING CORPORATION

March 20, 1987

U. S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, D.C. 20555

Letter: WM 87-0097
Re: Docket No. 50-482
Subj: Inservice Inspection Relief Requests for Wolf Creek Generating Station

Gentlemen:

Attachments 1 through 4 provide data in support of requests for relief from volumetric examination requirements of ASME Boiler and Pressure Vessel Code Section XI 1980 Edition through Winter 1981 Addenda for selected components. These relief requests resulted from the inservice inspections performed during Refuel 1 at Wolf Creek Generating Station.

A copy of this letter is being provided to Mr. Boyd Brown of EG&G Idaho, Inc. If you have any questions concerning this subject, please contact me or Mr. O. L. Maynard of my staff.

Very truly yours,

Bart D. Withers
President and Chief
Executive Officer

BDW:jad

Attachments

cc: PO'Connor (2)
RMartin
JCummins
BBrown

1/1
A047

ATTACHMENT 1

RELIEF REQUEST

Component: TBB03-Circum-5-W

Category: B-B

Description: Pressurizer Shell to Bottom Head Weld

Code Requirement: 100% volumetric examination from two beam path directions.

Basis for Relief: On the bottom head side of the weld, the support skirt to bottom head weld obstructs perpendicular scanning with 2.5% loss of volume in the 45° angle beam scan and 19.5% loss of volume in the 60° angle beam scan. On the shell side, integrally welded lugs and instrumentation nozzles interfere with perpendicular scanning with 6% loss of volume. Note: The circumferential scan (parallel to weld axis) is unaffected.

Alternate Examination: None

ASME Code Section III: Components were accepted in accordance with the requirements of Section III, which included volumetric and surface examinations as well as pressure tests.

Evaluation of Plant Safety: Sufficient volume is examined to assure adequate levels of quality and safety for the weld.

ATTACHMENT 2

RELIEF REQUEST

Component: CH-101-101

Category: B-A

Description: Closure Head to Flange Weld on the Reactor Pressure Vessel

Code Requirement: 100% volumetric examination from two beam path directions

Basis for Relief: Three lifting lugs obstruct 42% of the exam volume at the lug locations. In the areas not obstructed by the lugs, 4.3% of the exam volume is obstructed by the head flange. The length of the weld obstructed by the lugs is 4.4%. A total of 6% of the weld volume cannot be examined. Note: The circumferential scan (parallel to the weld axis), as well as the surface examinations, were unaffected by these obstructions.

Alternate Examination: None

ASME Code Section III: Components were accepted in accordance with the requirements of Section III, which included volumetric and surface examinations as well as pressure tests.

Evaluation of Plant Safety: Sufficient volume and surface is examined to assure adequate levels of quality and safety for the weld.

ATTACHMENT 3

RELIEF REQUEST

Component: EBB01B-Seam-1-W

Category: B-B

Description: Steam Generator B Tubesheet to Channel Head Weld

Code Requirement: 100% volumetric examination from two beam path directions.

Basis for Relief: From the tubesheet side of the weld, 22.4% is obstructed by four supports. The 45° angle beam examination is 9.3% obstructed by design of the component and the 60° angle beam examination is obstructed 33.4% by the design of the component. Insufficient base metal is provided by the design to perform complete angle beam examinations. The loss is 16.7% of the weld and required volume during perpendicular scanning.

Alternate Examination: None

ASME Code Section III: Components were accepted in accordance with the requirements of Section III, which included volumetric and surface examinations as well as pressure tests.

Evaluation of Plant Safety: Sufficient volume is examined to assure adequate levels of quality and safety for the weld.

ATTACHMENT 4

RELIEF REQUEST

Component: EBB01A-11-W

Category: C-B

Description: Steam Generator A Feedwater Nozzle to Shell Weld

Code Requirement: 100% volumetric examination from two beam path directions

Basis for Relief: Examination of the weld required volume is from one beam path direction only (from shell towards nozzle), because of forging geometry. An area of the exam surface is contoured such that the search unit loses contact with the exam surface. The loss is 2.5% of the weld and required volume, in this one direction. Weld geometry precludes examination from the opposite direction in its entirety. Required surface examination is not impacted by this basis for relief and has been performed.

Alternate Examination: "0°" ultrasonic examination was performed at the time of the ISI examination to reduce the chance of missing a reflector parallel to the initial required scan.

ASME Code Section III: Components were accepted in accordance with the requirements of Section III, which included volumetric and surface examinations as well as pressure tests.

Evaluation of Plant Safety: Sufficient volume and surface is examined to assure adequate levels of quality and safety for the weld.