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HAMPTON,J.W. Duke Power Co.
RECIP.NAME RECIPIENT AFFILIATION
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SUBJECT: Forwards Request for Relief 92-13 covering stress weld on LPIS low pressure portion.Relief required due to impracticality of meeting ASME Code requirements re required weld area coverage for periodic inservice surface exam.

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RIDS/ADDS

RIDS/ADDS

Duke Power Company
Oconee Nuclear Station
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DUKE POWER

September 22, 1992

U.S. Nuclear Regulatory Commission
Attention Document Control Desk
Washington, DC 20555

Subject: Duke Power Company
Oconee Nuclear Station
Docket No. 50-287
Request for Relief No. 92-13

Pursuant to 10CFR50, 50.55a, please find the subject Request for Relief from ASME Section XI, 1980 Edition through the Winter 1980 Addenda. This relief is needed due to the impracticality of meeting the code requirements concerning required weld area coverage for the periodic Inservice Surface Examination on Unit 3 weld 3-53B-33-28 in the Low Pressure Injection System piping.

Code Case N-460 states, in part, " When the entire examination volume or area cannot be examined due to interference by another component or part geometry a reduction in examination coverage on any Class 1 or 2 weld may be accepted provided the reduction in coverage for that weld is less than 10%". We have reviewed this Code Case and find it's applicability to Oconee to be acceptable. This code Case has been referenced in the Oconee Inservice Inspection Plan. The attached request identifies a weld examined during the Unit 3 EOC 13 refueling outage, because of interference by another component, did not meet the less than 10% criteria given in Code Case N-460.

Please review and approve this request prior to the completion of Oconee's Second Ten-Year Inservice Inspection Interval, ending on February 28, 1994.

Very truly yours,

J. W. Hampton

Attachment

A047
1/1

xc: Mr. L. A. Wiens
Office of Nuclear Reactor Regulation
U. S. Nuclear Regulatory Commission
Washington, DC 20555

Mr. S. D. Ebneter
Regional Administrator, Region II
U. S. Nuclear Regulatory Commission

Mr. P. E. Harmon
Senior NRC Resident Inspector
Oconee Nuclear Station

Mr. Heyward G. Shealy
Bureau of Radiological Health
SC Dept. of Health & Environmental Control
2600 Bull St.
Columbia, SC 29201

DUKE POWER COMPANY

Request for Relief From

Inservice Inspection Requirement

Station: Oconee

Unit: 3

Requesting Department: Nuclear Generation Department

Reference Code: ASME Boiler and Pressure Vessel Code, Section XI 1980 Edition through Winter 1980 Addenda

I. Component for which exemption is requested:

a. Name and Identification Number:

Weld 3-53B-33-28, (Stress weld on the Low Pressure Injection System, low pressure portion)

b. Function:

Provides an emergency injection function in case of a LOCA

c. ASME Section XI Code Class:

2

d. Construction Code and Class (If Applicable):

ANSI B31.7 Class 2

e. Valve Category (If Applicable):

NA

II. Reference Code Requirement that has been determined to be impractical: IWC-2500-7, Examination Category C-F (surface examination), Item Number C05.011.009

III. Basis for Requesting Relief:

The Construction Permit for Oconee was issued on November 6, 1967. 10 CFR 50.55a(g) allows for plants whose Construction Permit was issued prior to January 1, 1971 to meet the requirements of ASME Section XI to the

extent practical within the limitations of design, geometry and materials of construction of the components.

Weld 3-53B-33-28 is on a 14 inch, schedule 10 stainless steel pipe. The design parameters for this pipe are, pressure 388 psig and temperature 300 degrees F. This section of pipe is not used except when the reactor is shutdown. This line is one of two lines the LPI pumps can use to take a suction on the emergency sump during an extended emergency situation.

Due to physical obstructions (pipe saddle) obtaining coverage on at least 90% of the weld volume as required by ASME Section XI, 1980 Edition as modified by Code Case N-460 is not possible. A total of 80% of the weld was examined by the liquid penetrant method and was found to be acceptable. The 20% of the weld that is inaccessible is on the bottom side of the pipe. The section was visually inspected and no indications of a leak were observed. In addition, this line is scheduled to receive a VT-2 functional test at normal operating condition this outage.

Based on the results of the liquid penetrant and visual examination that was performed and the functional test, which verified there were no leaks at normal operating conditions, there is no danger to the health and safety of the general public.

IV. Alternate Examination:

No alternate examination is planned for this weld due to the inaccessibility of the lower portion of the weld. A hydrostatic test was performed on this line on September 7, 1989 and was found to be satisfactory. Additionally, this line will receive a VT-2 functional test at normal operating conditions

V. Implementation Schedule:

Refueling Outage 13 (current outage August, 1992).

Evaluated By: R B Rowe Date: 9/15/92

BVE Engineering Review By: Ted K. Royal Date: 9/21/92

Reviewed By: W. G. Goodman Date: 9/15/92

Form NDE-25A | Revision 1

DUKE POWER COMPANY

PROJECT OCONEE

MAGNETIC PARTICLE/LIQUID PENETRANT EXAMINATION REPORT

Weld No. 3-538-33-28 Unit No. 3 Date 08/27/92

Diameter 14.00 Schedule/Thickness 00.250 Type Material ☒ SS ☐ CS

Work Order No. N/A QA Condition 1

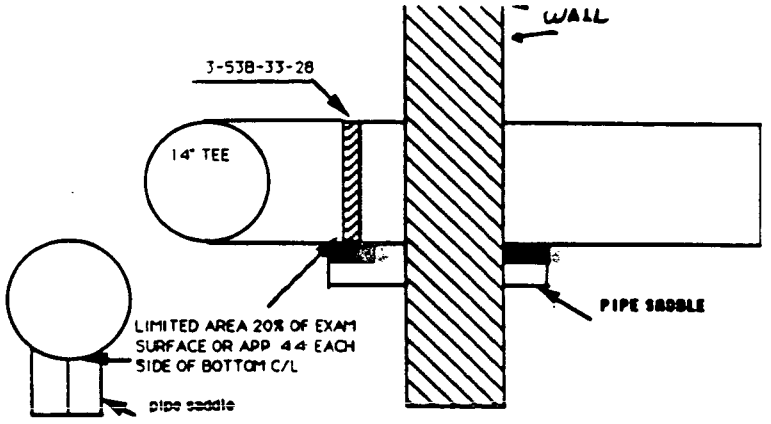
Procedure NDE-35 AF / Rev 13

NDE-98 Approved N/A

Radiation Level N/A

Inspector	Level
EEC	II

SKETCH OF ITEM EXAMINED



Indication Number	Indication Demensions Length/Width/Dia., etc.	Acceptable	Reportable	Reference Documents
		* see		
		remarks		

MT DATA

MT Method Used

☐ Fluorescent ☐ Nonfluorescent ☐ Wet ☐ Dry

MT Unit Serial No. _____

Particle Batch No. _____

MT Technique Used:

Circular

☐ Direct Contact Amp _____

☐ Central Conductor Amp _____

MT Field Indicator Used ☐ Yes / ☐ No

☐ Yoke ☐ AC ☐ DC ☐ Prod

☐ Longitudinal No. Turns in Coil Amps

PT DATA

PT Batch Number

Cleaner 92D001

Penetrant 87K043

Developer 91C17P

Remover

☐ Fluorescent ☒ Nonfluorescent

Black Light Intensity Verified

Time Date

Ser.No. Lt. Meter

Ser. No. Blk Light

Remarks:

LIMITED AREA IS 20% OF EXAM SURFACE OR APP. 4.4" EACH SIDE OF BOTTOM C/L

NO VISUAL EVIDENCE OF LEAKAGE IN LIMITED AREA.

NO RECORDABLE INDICATIONS FOUND

ANI Review	Date	Final QA Review	Date	Item No.
MB Chapman	8-28-92	T. G. Coleman	8-28-92	C05.011.009