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 FACIL: 50-270 Oconee Nuclear Station, Unit 2, Duke Power Co.
 50-287 Oconee Nuclear Station, Unit 3, Duke Power Co.
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 RECIP. NAME: DENTON, H.R. RECIPIENT AFFILIATION: Office of Nuclear Reactor Regulation, Director
 STOLZ, J.F. Operating Reactors Branch 4

DOCKET #
 05000270
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SUBJECT: Forwards request for relief from ASME Section XI visual & volumetric inservice insp requirements. Suppl 810601 request. No addl license fees provided.

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POWER BUILDING
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WILLIAM O. PARKER, JR.
VICE PRESIDENT
STEAM PRODUCTION

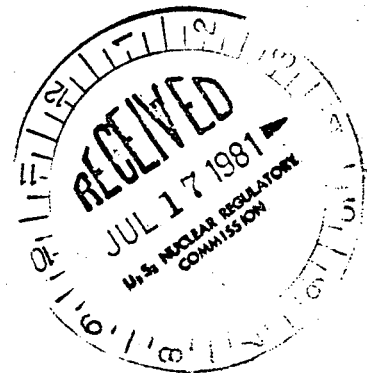
TELEPHONE: AREA 704
373-4083

July 13, 1981

Mr. Harold R. Denton, Director
Office of Nuclear Reactor Regulation
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Attention: J. F. Stolz, Chief
Operating Reactors Branch No. 4

Re: Oconee Nuclear Station
Docket Nos. 50-270, -287

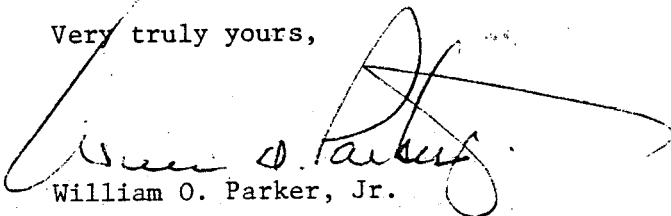


Dear Sir:

Pursuant to 10 CFR 50, § 50.55a, please find attached a request for relief from the inservice inspection requirements of Section XI of the ASME Boiler and Pressure Vessel Code.

This request is considered to supplement the request made by my letter of June 1, 1981. As such, no additional license fees are provided.

Very truly yours,


William O. Parker, Jr.

RLG/php
Attachment

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1/1

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PDR ADOCK 05000270
Q PDR

DUKE POWER COMPANY
OCONEE NUCLEAR STATION
REQUEST FOR RELIEF FROM ASME SECTION XI
VISUAL AND VOLUMETRIC INSPECTION REQUIREMENTS

1. Component For Which Relief Is Requested:

(a) Name and Number

Reactor Coolant Pump/System (Duke System No. 50 [1])

(b) Function

The Reactor Coolant Pump recirculates primary (borated) coolant water from the Once Through Steam Generator (OTSG) in its respective loop to the Reactor Vessel.

(c) ASME Section III Code Class

Equivalent Class 1 per NRC Regulatory Guide 1.26.

(d) Valve Category

N/A

2. ASME Code Section IX Requirement That Has Been Determined To Be Impractical:

ASME Boiler and Pressure Vessel Code Section XI, 1974 edition, including 1975 Summer Addenda, article IWB-2500, Extent of Examination, Category B-L-1 and B-L-2, and article IWB-2600, Examination Method Requirements, Item B 5.6 and B 5.7.

3. Basis for Requesting Relief:

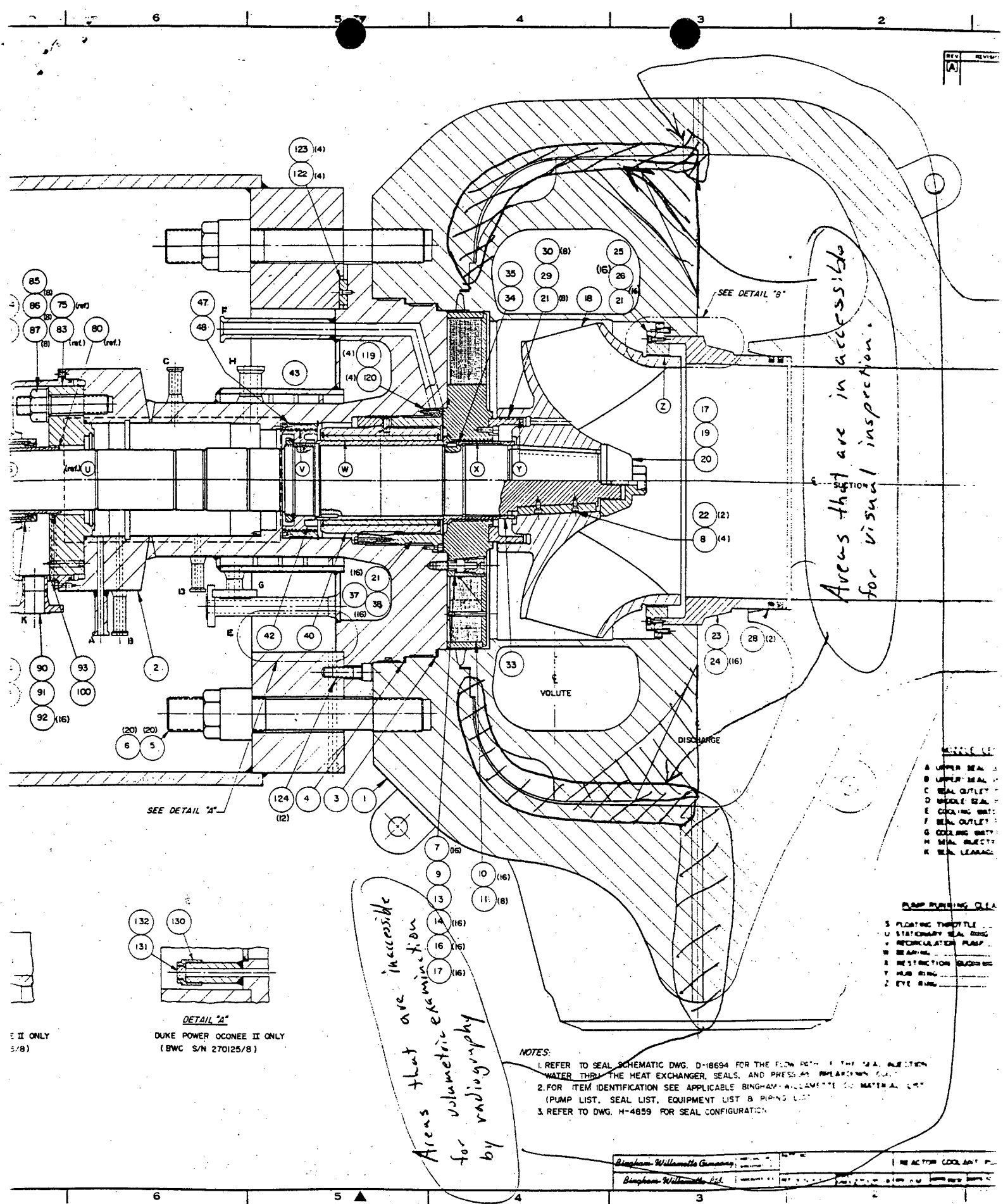
The Reactor Coolant Pumps on Oconee Units 2 and 3 were designed and manufactured by Bingham-Willamette Company before the ASME, Boiler and Pressure vessel, Section XI Code was developed. The pump casing was designed in such a way that a large portion of the internal pressure boundary is inaccessible for visual inspection, and small areas at the outer edges of the volute are inaccessible for volumetric inspection using radiography. Therefore, the code as it presently stands does not give adequate consideration to pumps that were designed in this manner. These areas can be seen on the attached illustration. A visual inspection of these areas would require cutting the pump casing open which would be impractical and not in keeping with the concept of Non-Destructive Examination (NDE).

4. Alternate Examinations:

The remaining portion of the casing can be visually and volumetrically inspected and the results of this portion of the visual inspection should be indicative of what conditions exist in the inaccessible areas.

5. Implementation:

The subject inspection is presently scheduled to be completed during Oconee Unit 3's next refueling outage which should begin June, 1982. The same inspection will be conducted on Oconee Unit 2 during its next refueling outage after Unit 3's June 1982 refueling outage.



REV. (A)

Areas that are accessible for visual inspection.

Areas that are inaccessible for volumetric examination by radiography

SEE DETAIL "A"

SEE DETAIL "B"

DETAIL "A"

DUKE POWER OCONEE II ONLY
(BWC S/N 270125/8)

II ONLY
5/8)

- MATERIAL LIST**
- A UPPER SEAL
 - B UPPER SEAL
 - C SEAL OUTLET
 - D LOWER SEAL
 - E COOLING WATER
 - F SEAL OUTLET
 - G COOLING WATER
 - H SEAL OUTLET
 - I SEAL LEAKAGE

PUMP PIPING LIST

- S FLOATING THROTTLE
- U STATIONARY SEAL RING
- V RECIRCULATION PUMP
- W BEARING
- X RESTRICTION BUSHING
- Y HUB RING
- Z EYE RING

NOTES:

1. REFER TO SEAL SCHEMATIC DWG. D-18694 FOR THE FLOW PATH OF THE SEAL LUBRICANT WATER THROUGH THE HEAT EXCHANGER, SEALS, AND PRESS. RELEASE VALVE.
2. FOR ITEM IDENTIFICATION SEE APPLICABLE BINGHAM-WILLIAMETTE CO. MATERIAL LIST (PUMP LIST, SEAL LIST, EQUIPMENT LIST & PIPING LIST).
3. REFER TO DWG. H-4859 FOR SEAL CONFIGURATION.