

# DUKE POWER COMPANY

POWER BUILDING

422 SOUTH CHURCH STREET, CHARLOTTE, N. C. 28242

WILLIAM O. PARKER, JR.  
VICE PRESIDENT  
STEAM PRODUCTION

April 5, 1982

TELEPHONE: AREA 704  
373-4083

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

Attention: Ms. E. G. Adensam, Chief  
Licensing Branch No. 4

Re: Catawba Nuclear Station Units 1 and 2  
Docket Nos. 50-413 and 50-414  
Preservice and Inservice Inspection Program



Dear Mr. Denton:

Please find attached a request for relief from a requirement of the ASME Code for certain Class 2 circumferential butt welds for Catawba's Preservice and Inservice Inspection Program.

Very truly yours,

A handwritten signature in dark ink, appearing to read 'William O. Parker, Jr.'.

William O. Parker, Jr.

RWO/php  
Attachment

cc: Mr. James P. O'Reilly, Regional Administrator  
U. S. Nuclear Regulatory Commission, Region II

Mr. P. K. Van Doorn  
NRC Resident Inspector  
Catawba Nuclear Station

Mr. Robert Guild, Esq.

Palmetto Alliance

*Boo!*  
*5/1*

8204130171 820405  
PDR ADOCK 05000413  
Q PDR

DUKE POWER COMPANY  
Request for Relief from  
Inservice Inspection Requirement

Station: Catawba Nuclear Station

Unit: #1 and #2

Reference Code: ASME Boiler and Pressure Vessel Code Section XI 1974 Edition  
including Addenda through Summer 1975.

I. Component for which exemption is requested:

a. Name and Identification Number:

Main Steam Piping.  
First elbow weld off the top of each generator.  
See Attachment 1 for complete list of assemblies and welds.

b. Function:

Main Steam Pressure Boundary

c. ASME Section III Code Class:

Class 2

d. Valve Category:

N/A

II. Reference code requirement that has been determined to be impractical:

Table IWC-2600 Item #C2.1 requires volumetric examination for circumferential butt welds. Table IWC-2520 examination category C-G requires that 50% of the total number of circumferential butt welds at structural discontinuities be examined. Radiography cannot be performed for inservice inspection due to accessibility.

III. Basis for requesting relief:

a. Material - SA-106C

b. Estimate of extent of preservice examination which could be performed -  
0%.

c. Original fabrication examination - magnetic particle inspection is performed on the outside surface and radiography is performed on the entire weld volume.

DUKE POWER COMPANY  
Request for Relief from  
Inservice Inspection Requirement

III. Basis for requesting relief (cont'd):

- d. Measures which would be required to make the welds able to be inspected - the guard pipe which makes the process pipe welds inaccessible would have to be removed.
- e. Reference drawings - CN-1491-SM002  
CN-1491-SM003  
CN-1491-SM004

IV. Alternate examination:

There are no alternate examinations that can be performed due to the inaccessibility of the welds.

V. Implementation schedule:

The fabrication radiography records will be used in lieu of the onsite preservice inspection examination.

The following is a list of circumferential butt welds for which volumetric examination has been determined to be impractical:

<u>Assembly</u>	<u>Weld Number</u>	<u>Size</u>
A Generator: Main Steam	CT-SM-1A-C	32"
B Generator: Main Steam	CT-SM-1B-C	32"
C Generator: Main Steam	CT-SM-1C-C	32"
D Generator: Main Steam	CT-SM-1D-C	32"

REV 15 78-10-20 CHK'D PG 10-18-78

78-11-8-78 CHK'D SL 11-8-78  
PG 11-30-78 CHK'D 78-12-1-78

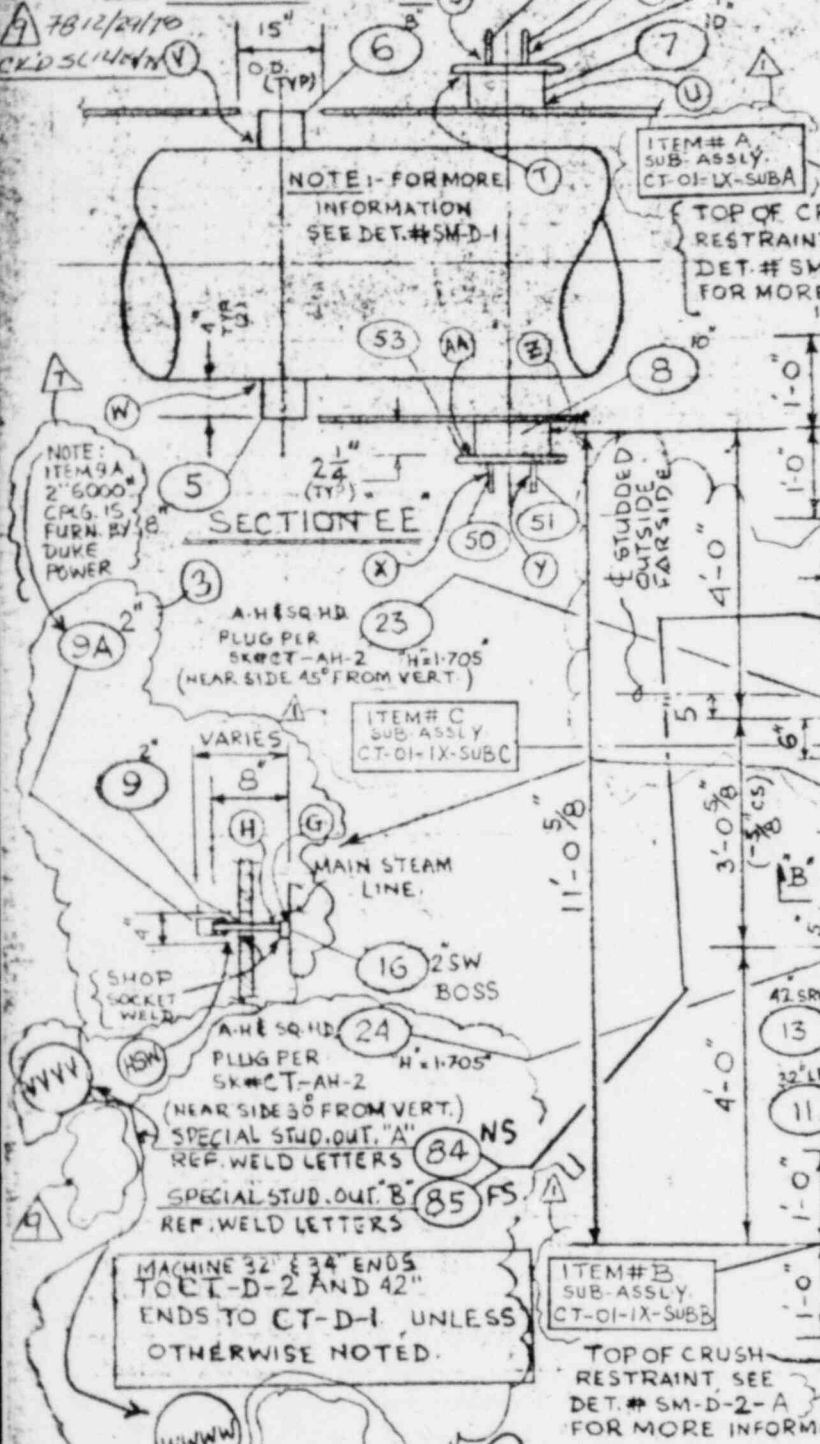
ORDER OR CONT. NO. 7127

NAME DUKE POWER CO.

LOCATION CATAWBA UNIT #1

SL 12-28-78 CHK'D PG 12-28-78

78-12-24-78  
CHK'D SL 12-24-78



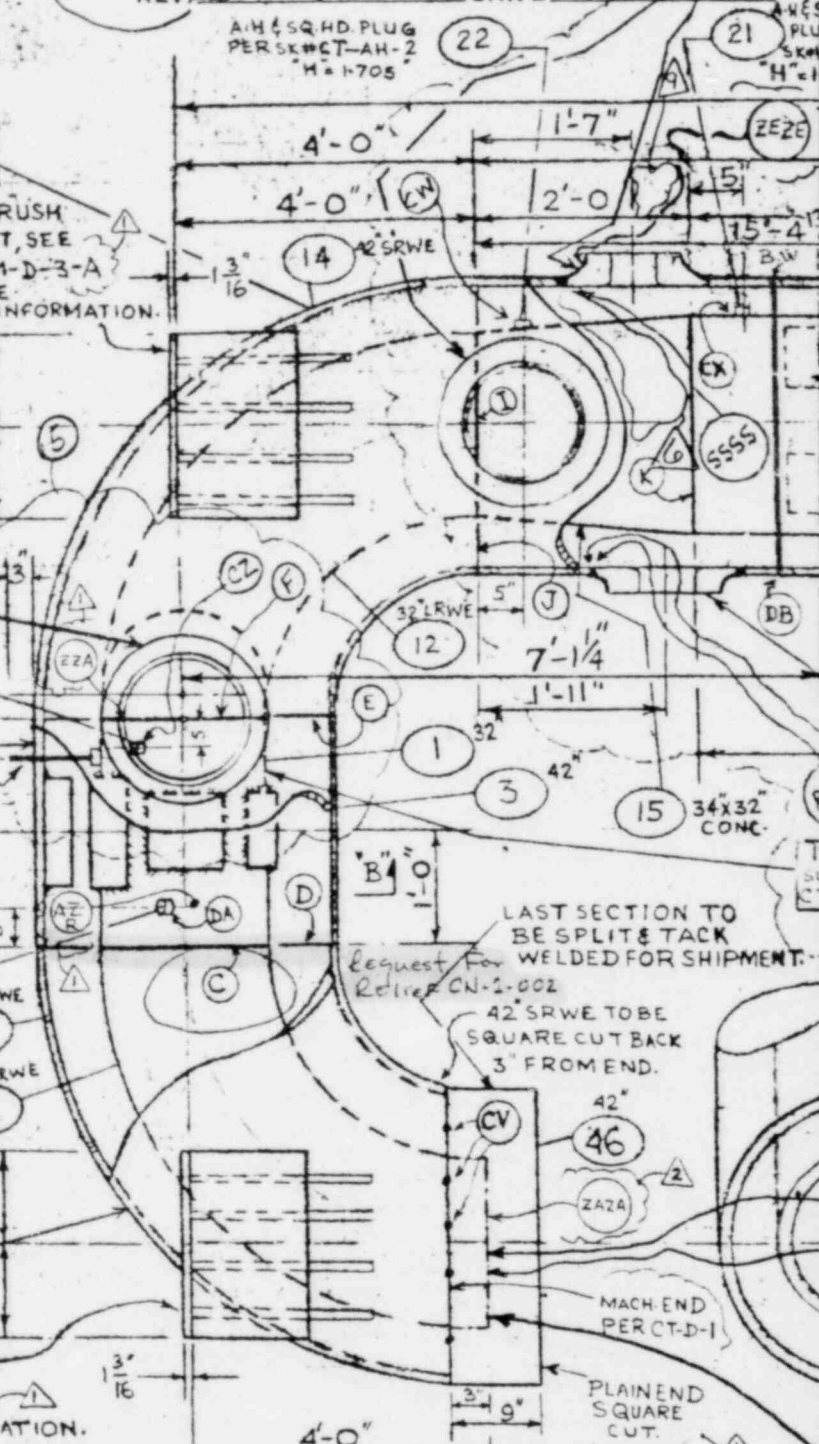
REV 4 78-10-17-78 CHK'D PG 10-17-78

DEPT. I. T. T. KERNERSVILLE.

REDRAWN Subhash, 10-24-77 CHK'D PG 10-26-77

REV 1 SM 11-30-77 CHK'D PG 11-30-77

REV 2 SM 12-9-77 CHK'D PG



CLASS DUKE "B" PS 1500.7(01) + GUARD. LINE SPEC. 1500.5(01) + PROCESS. APP. CODE ASME SECT III CL 2 NO. REQ'D 1

RADIOGRAPHY (RT)	✓	SPECIAL MARKING	✓	PREHEAT	✓	CERT. OF COMPLIANCE	
MAG. PARTICLE (MT)	✓	SPECIAL CLEANING	✓	HEAT TREAT		MILL TEST REPORTS	✓
LIQ. PENETRANT (PT)		PAINTING	✓	CODE STAMP	✓	DATA REPORTS	✓

SYSTEM MAIN STEAM (SM) 5 FAB. SPECS. JS 118  
REF. DRW'G No. CN-1491-SM003 PRESS. 1185 PSI. TEMP. 600 °F. WT. 89185 LBS.  
REGISTER CT-01-IX PC. MK. CT-SM-1A SK. NO. CT-SM-1A