

DUKE POWER COMPANY

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VICE PRESIDENT
NUCLEAR PRODUCTION

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January 19, 1988

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

Subject: McGuire Nuclear Station, Unit 1
Docket No. 50-369
Requests for Relief from
ASME Code Section XI Requirements

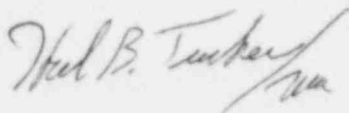
Gentlemen:

Pursuant to 10CFR 50.55a(g)(5)(iii), Duke transmitted a relief request dated October 26, 1987 to the NRC. Subsequently during a visit to McGuire, NRC Region II Inspector B.R. Crowley requested additional information pertaining to Attachments 1, 2, and 5 of the relief request dated October 26, 1987.

Accordingly, please find attached the requested information. Also, Duke understands that no additional application fee is due since this submittal is a follow-up of additional information.

Should there be any questions concerning this letter, please contact Steve LeRoy of Duke Licensing at (704)373-6233.

Very truly yours,



Hal B. Tucker

SEL/208/jgc

Attachment

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Document Control Desk
January 19, 1988
Page 2

xc: Dr. J. Nelson Grace
Regional Administrator, Region II
U.S. Nuclear Regulatory Commission
101 Marietta St., NW, Suite 2900
Atlanta, GA 30323

B.R. Crowley
U.S. Nuclear Regulatory Commission
101 Marietta St., NW, Suite 2900
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Mr. Darl Hood
U.S. Nuclear Regulatory Commission
Office of Nuclear Reactor Regulation
Washington, D.C. 20555

Mr. W.T. Orders
NRC Resident Inspector
McGuire Nuclear Station

ATTACHMENT 2

Additional Information

Additional clarity and justification for relief request.

1. Component for Which Relief is Requested:

A. Name and Number

1. Valve 1RN134 weld numbers 58-1 and 58-2, pipe size 18" with a wall thickness of .375, SA106 Grade B material.
2. Valve 1RN235 weld numbers 60-1 and 60-2, pipe size 18" with a wall thickness of .375, SA106 Grade B material.
3. Valve 1RN130A, weld numbers RN1F-3312, 3313 and 3314, pipe size 2" with a wall thickness of .154, SA106 Grade B material.

3. Basis for Requesting Relief:

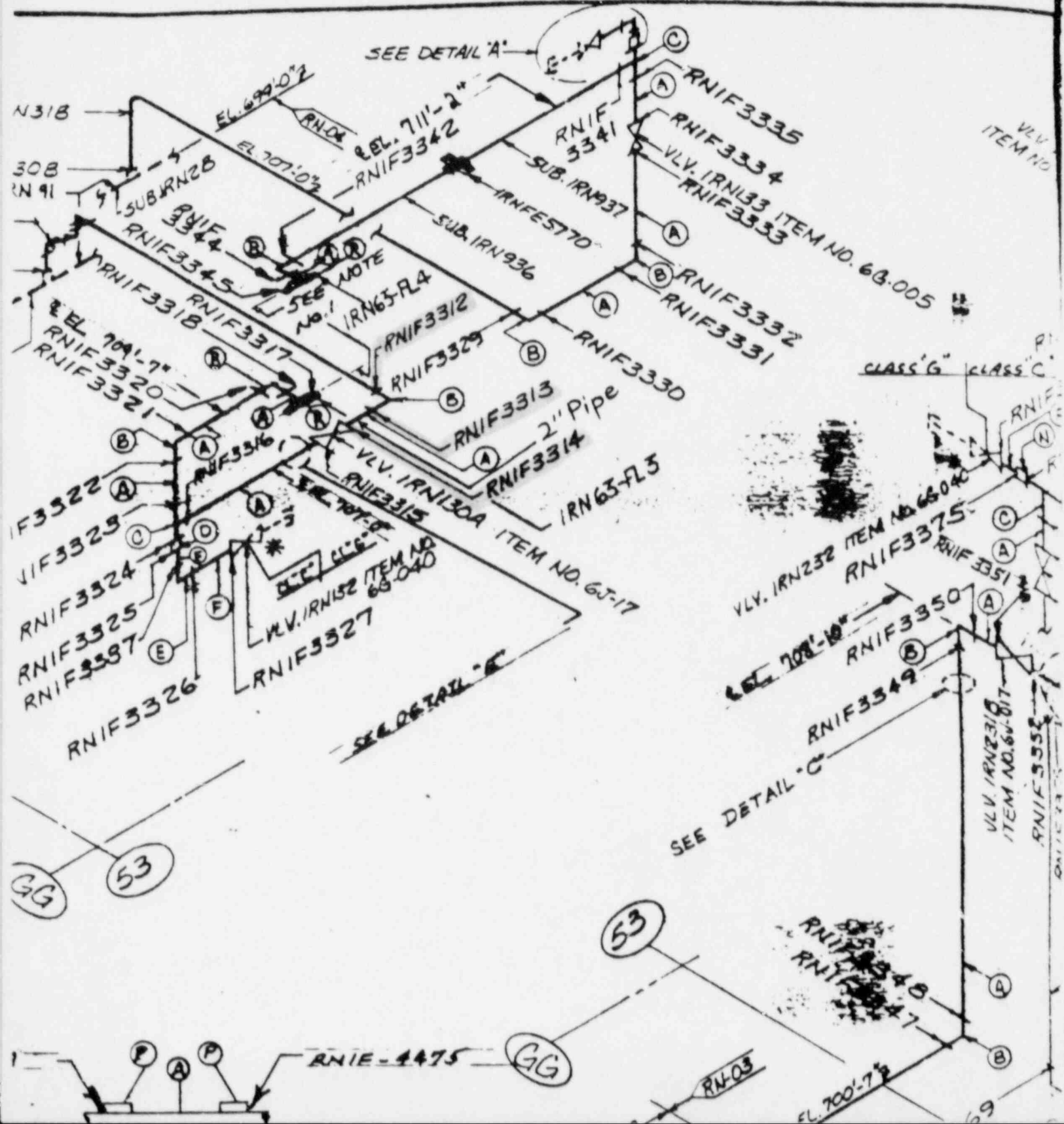
A. Additional Justification for Impracticality of Hydrostatic Test

Due to engineering design, by the use of butterfly valves, it is impossible to hydrostatically test this system without affecting the other operable train of this system. The possibility exists that other sections of the system could be over pressurized, i.e., the capacity is not available to offset leakage by said valves. In addition these sections of the RN system have a low design pressure and temperature of 135 psig and 95 degrees-F. The additional burden of performing these tests could potentially lead to the unit being involuntarily removed from service.

4. The ASME code requires only a dye penetrant (PT) examination on the finished weld surface for greater than 4" NPS. We impose an additional PT inspection on the root pass weld.

On 4" and less NPS, only a final visual is required. We impose a PT inspection in addition to a final visual inspection on the finished weld surface.

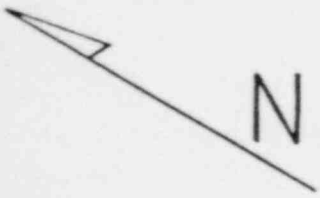
Attachment 2



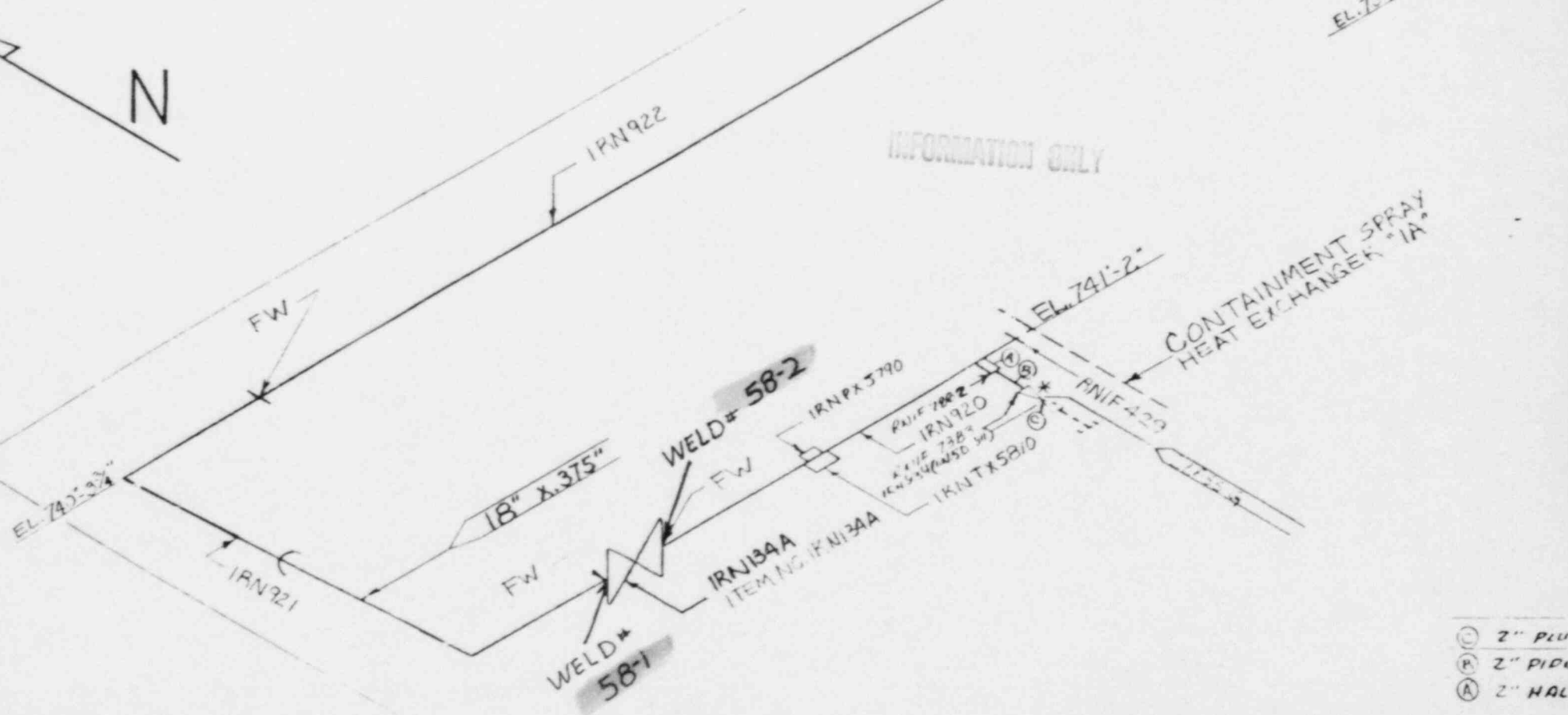
SEE DWG NO. MC
AIR-14.93-01
IRN440A

CONT. ON MCFI-IPN 110
244'-3"

EL. 734'-6"



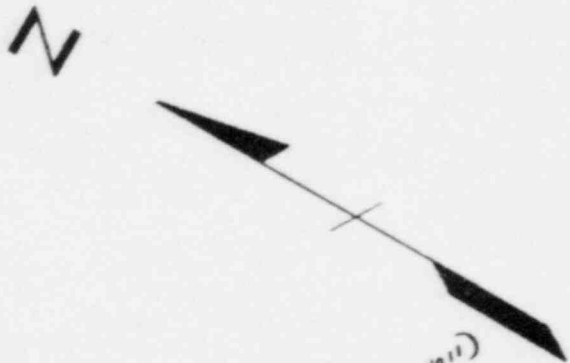
INFORMATION ONLY



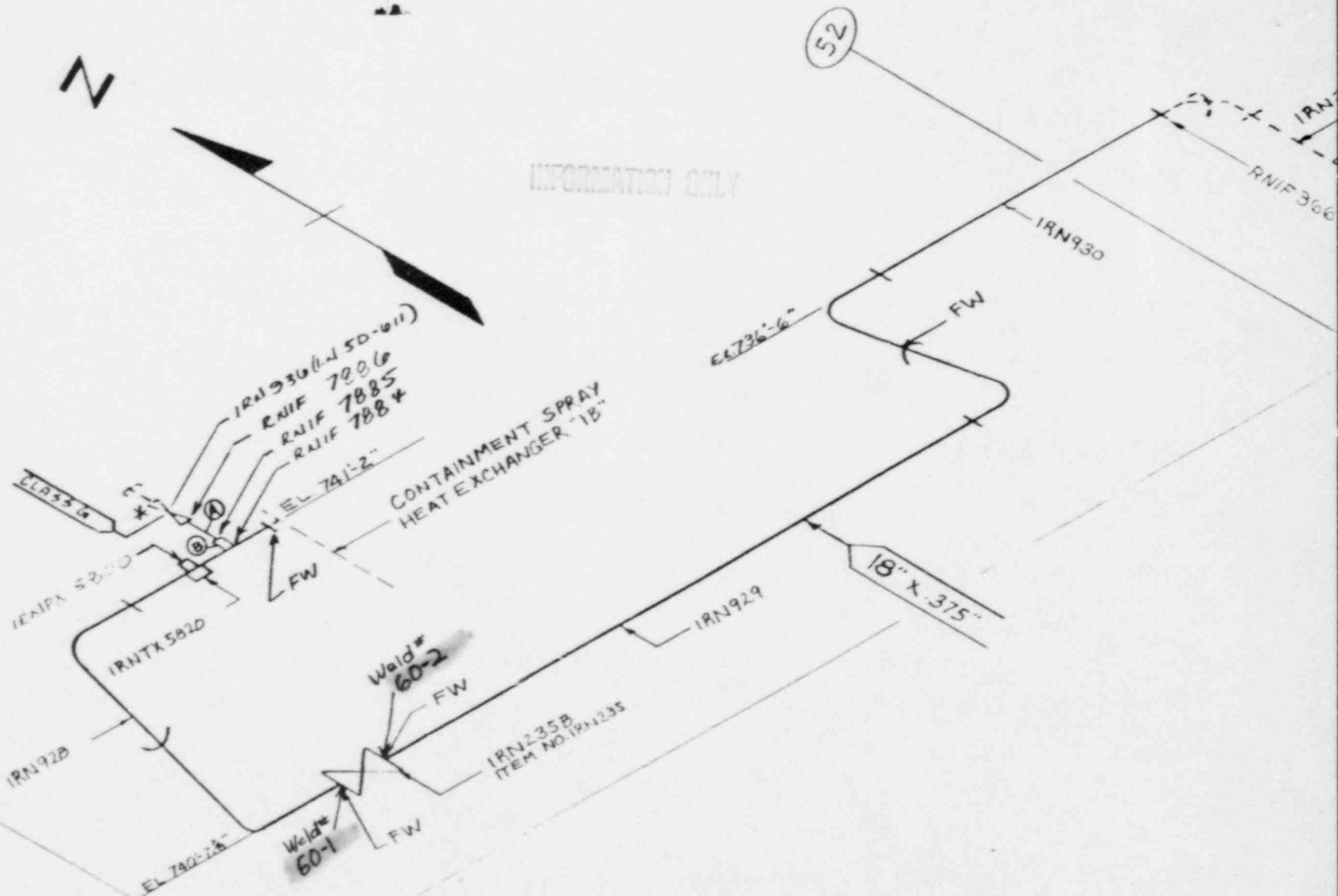
- ⓐ 2" PLU
- ⓑ 2" PIP
- Ⓐ 2" HAL

PROJECT M

DUKE PIPING CLASS: CLASS 3 (ANSI B31.
 SYSTEM TITLE & SYMBOL: NUCLEAR SERVI
 BUILDING: AUXILIARY



INFORMATION ONLY



PROJECT MCGUIRE

DUKE PIPING CLASS: CLASS III (ANSI B31.7) CLEANLI
 SYSTEM TITLE & SYMBOL: NUCLEAR SERVICE WATER F
 BUILDING: AUXILIARY QA CONDITION

ATTACHMENT 3

Additional Information

Additional clarification is provided to define why a dye penetrant (PT) inspection was not performed.

Component for Which Relief is Requested: Valve IRN134A

This valve was initially removed from service in order to perform extensive welding and machining repairs to the internal valve disc seating area. Internal inspection revealed that an adjacent weld, RN 1F427, had lack of penetration and lack of fusion in the root of the weld. The root of this weld was machined out and rewelded by a qualified welder using qualified materials. This weld was very near the valve seat area which required extensive welding repairs. Welding material applied to the valve seat area eventually overlapped weld RN 1F427. Machining of this weld area was then performed to facilitate the valve seat replacement. After reseating of the valve and reassembly, the valve was then rewelded into the system. After rewelding into the system, it was discovered that the required dye penetrant (PT) test was not performed.

The request for relief from code requirement as defined in attachment three was then submitted.

ATTACHMENT 5

Additional Information

Additional clarification is provided to define why hydrostatic test was impractical.

1. Component for Which Relief is Requested:

D. Materials and Welds

Pipe size is 20", with a wall thickness of .375, SA106 Grade B material. Design pressure 135 psig and 150 degrees-F.

3. Basis for Requesting Relief:

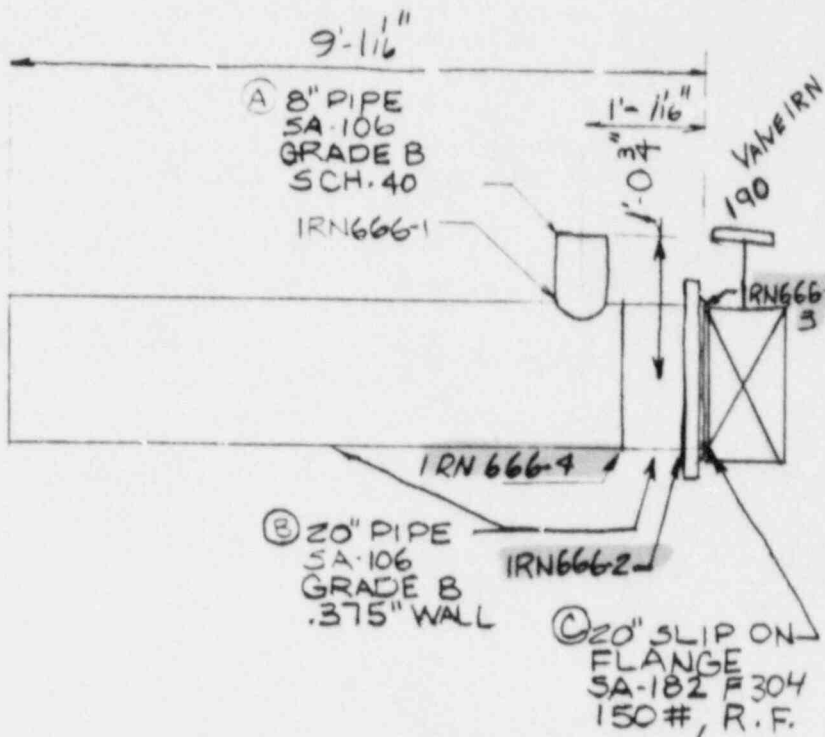
A. Additional Justification for Impracticality of Hydrostatic Test

Due to engineering design by use of butterfly valves it is impossible to hydrostatically test this system without affecting the other operable train of the RN system. The possibility exists that other sections of the system could be over pressurized, i.e., butterfly valves will not hold pressure. Also, additional pump capacity is not available to offset leakage by said valves. In addition, these sections of the RN system have a low design pressure and temperature of 135 psig and 150 degrees-F.

4. The ASME code requires only a dye penetrant (PT) examination on the finished weld surface for greater than 4" NPS. We impose an additional PT inspection on the root pass weld.

MATERIAL IDENT.	HEAT NO.	PIECE NO.
A		
B		

FABRICATION SKETCH



INFORMATION ONLY

APPLICABLE CODE ANSI B 31.7 CL.3	PROCESS CONTROL CHECK LIST FOR WELDING, HEAT TREATMENT, & NON-DESTRUCTIVE EXAMINATION									
	WELD NUMBER	WELD DATA SHEET NO.	REV. NO.	PERFORMANCE TEST NO.	REV. NO.	NDE PROCEDURE	REV. NO.	HEAT TREAT DATA SHEET NO.	REV. NO.	
CLEANNESS CLASSIFICATION LEVEL II	IRN666-1	L-202/L-303	2	L-52/L-53	3/3	L-22	2	NA	11	
	IRN666-2	L-506	2	L-152	1/3	L-22	3	NA		
SYSTEM TITLE AND SYMBOL NUCLEAR SERVICE WATER RN-04 PS 150.3	IRN666-3	L-303	2	L-153	3	L-22	2	NA	11	
	IRN666-4									

NO.	REMARKS	ORIGD	CHKD	MECH	WELD	QA	REV. NO.	SUBASSEMBLY NUMBER
3	REV. WELD DATA						3	IRN666
2	REL. FOR CONPT-12							
1								
0								

DUKE POWER COMPANY
CONSTRUCTION DEPARTMENT
PROJECT MC3 IRE

TITLE
SYSTEM PN
DWG. MC-1418-14.43-00
MCFI-IRN102

DATE DATE DATE DATE DATE DATE
APPROVED