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 50-287 Oconee Nuclear Station, Unit 3, Duke Power Co. 05000287

AUTH. NAME AUTHOR AFFILIATION
 HAMPTON, J.W. Duke Power Co.
 RECIPIENT NAME RECIPIENT AFFILIATION
 Document Control Branch (Document Control Desk)

SUBJECT: Forwards Request for Relief 92-09 from requirements of Section XI of ASME Boiler & Pressure Vessel Code due to impracticality of pressure testing borated water storage tank piping to HPI pumps.

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Duke Power Company
Oconee Nuclear Generation Department
P.O. Box 1439
Seneca, SC 29679

J.W. HAMPTON
Vice President
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DUKE POWER

May 13, 1992

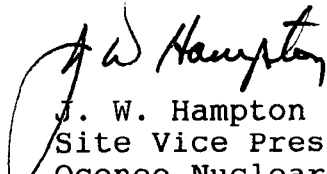
U. S. Nuclear Regulatory Commission
Attention: Document Control Desk
Washington, DC 20555

Subject: Oconee Nuclear Station
Docket No. 50-269, 270, 287
Second Ten Year Interval
Request for Relief No. 92-09

Gentlemen:

Pursuant to 10CFR50, 50.55a, please find attached Request for Relief from the requirements of Section XI of the ASME Boiler and Pressure Vessel Code (with Addenda through Winter 1980). This request is being submitted due to the impracticality of pressure testing of the Borated Water Storage Tank Suction Piping to the High Pressure Injection Pumps as required by the Code. The attached request concerns the inservice inspections at Oconee being performed during the second ten year interval. Please review and approve this request by the end of the third period of the second inspection interval ending February 28, 1994.

Very truly yours,


J. W. Hampton
Site Vice President
Oconee Nuclear Station

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

Mr. S. D. Ebnetter
Regional Administrator, Region II
U. S. Nuclear Regulatory Commission
101 Marietta Street, NW., Suite 2900
Atlanta, GA 30323

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PDR ADOCK 05000269
P PDR

AD47

U. S. Nuclear Regulatory Commission
Page 2

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

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

Duke Power Company
Oconee Nuclear Station
Second Ten Year Interval
Request for Relief #92-09

I. Component for which relief is requested:

- a) Name and Number: Piping and Welds between 1, 2, 3 HP-25 and 1, 2, 3 HP-102; piping and welds between 1, 2, 3 HP-24 and 1, 2, 3 HP-101.
- b) Function: Borated Water Storage Tank suction piping for HPI pumps.
- c) ASME/Duke/ISI Class:
ASME Class 2, Duke Class B, ISI Class B
- d) Drawings OFD 101A-1, 2, 3.3 and 102A-1, 2, 3.1

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

IWC 5222(a) and Table IWC-2500-1, Category C-H, Item C7.21; IWC-2420(a)

III. Basis for requesting relief:

The piping on the upstream side of HP-24 and 25 is rated at 100 psig at 200° F. The piping downstream of HP-24 and 25 is rated at 350 psig at 200° F. Valves HP-101 and 102 are check valves. The HP-101 and 102 check valves make it impractical to perform the hydrostatic test with HP-24 and 25 closed and pressurizing from the downstream piping to HP-24 and 25. To pressurize the piping from the upstream direction with HP-24 and 25 open would cause overpressurization of the low pressure upstream piping. This request is to delay this test until the HP-101 and HP-102 valves can be disassembled.

IV. Alternate Examination:

No alternate examinations are needed as this request for relief is only to delay the periodic ISI hydrostatic test to a later time. The welds associated with this request have not been changed since the previous pressure test was performed.

V. Acceptability of proposed alternate testing with respect to the level of quality and safety, as well as public health and safety:

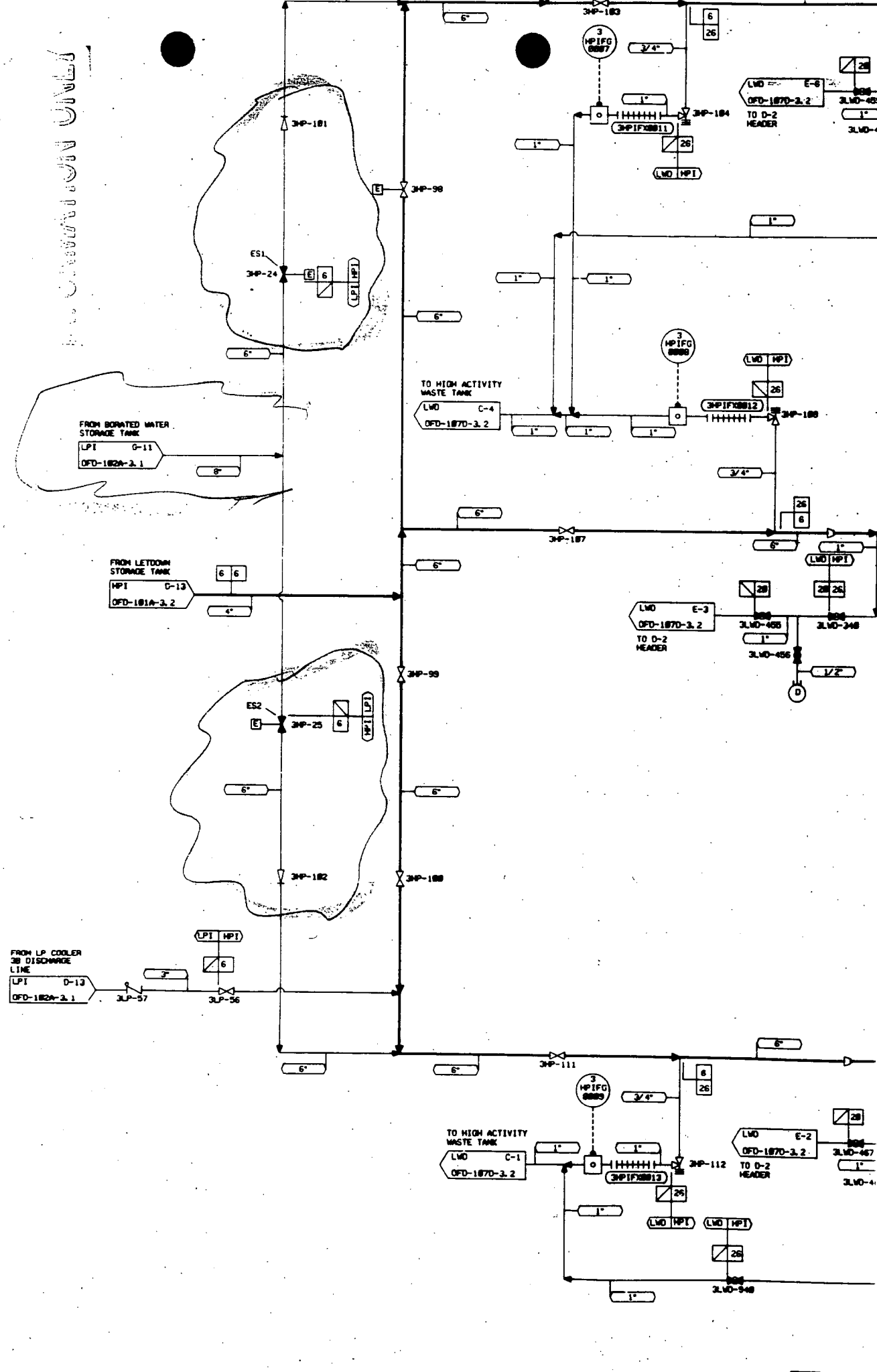
The welds have been previously inspected and tested as required by ASME Section XI. This relief is only to delay the periodic ISI hydrostatic test until a time HP-101 and HP-102 can be disassembled. An acceptable level of quality and safety as well as public health and safety has been provided.

VI. Implementation schedule:

At the next refueling outage for each unit where disassembly of HP-101 and HP-102 is practical, but no later than the last refueling outage for each unit during the third period of the Second Inspection Interval, ending February 28, 1994.

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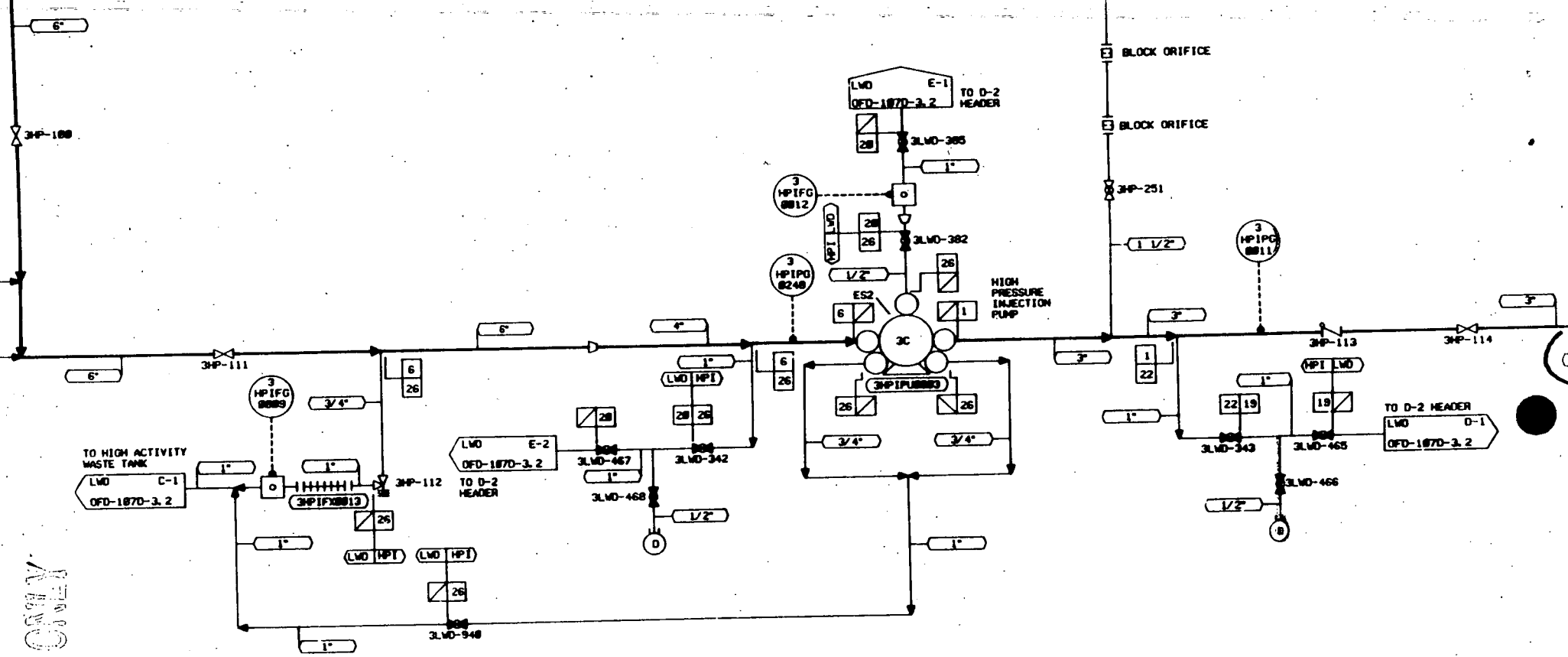
OPERATING MODE



1. OPERATING MODE REPRESENTED BY SOLID LINES. ONE NPI PUMP SUPPLYING RC SEAL INJECTION & MAKEUP FLOW.

DESIGN P.

INFORMATION ONLY
 NOT FOR CONSTRUCTION



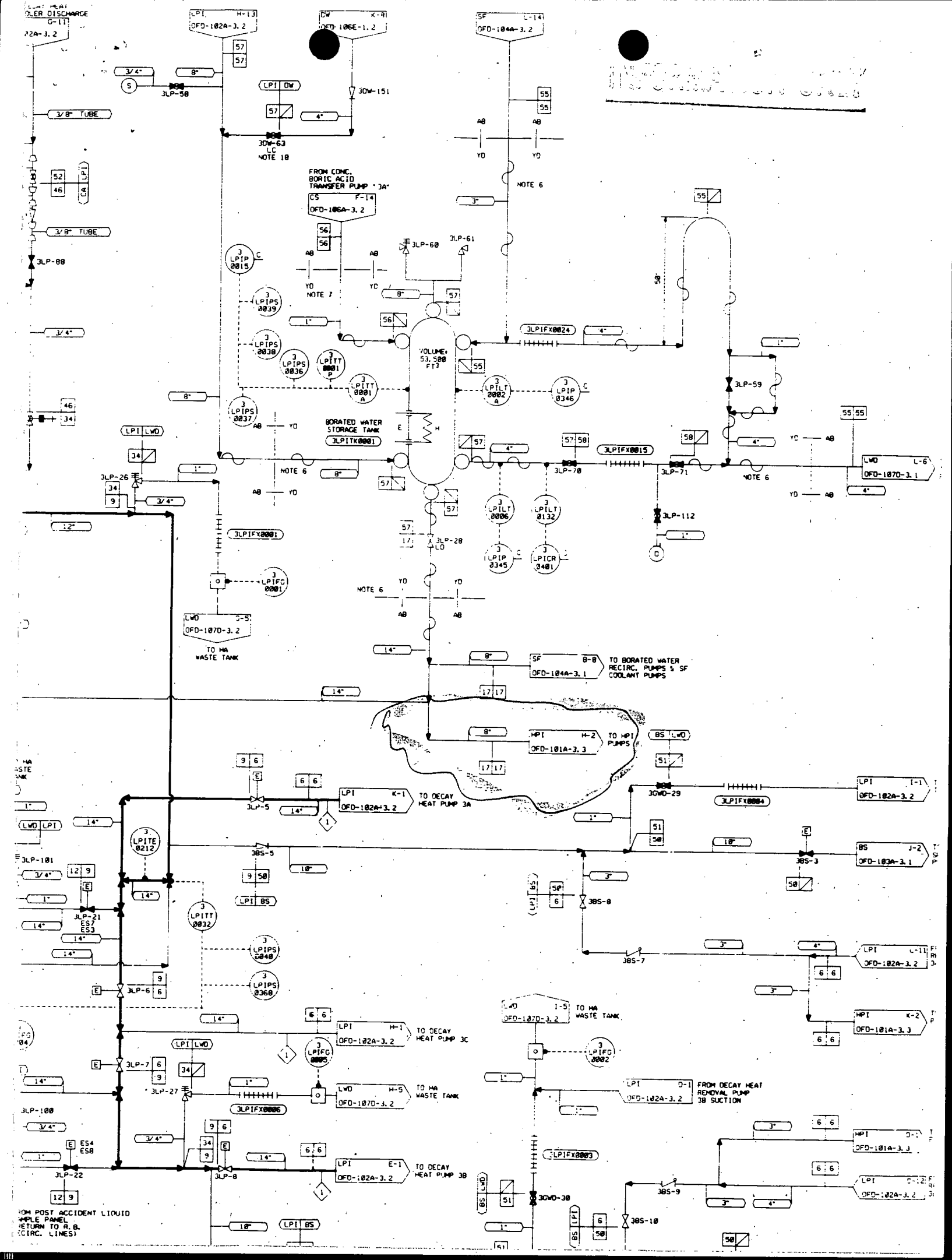
DESIGN PARAMETERS

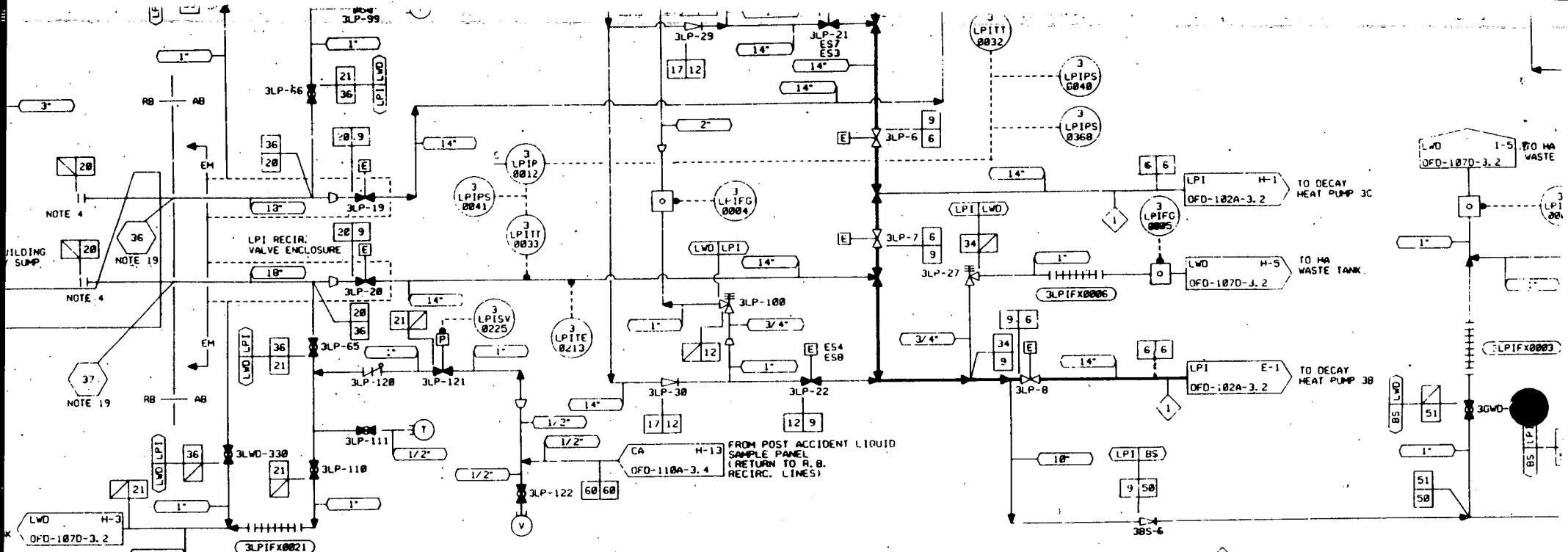
LINE NO.	ISI CLASS	DESIGN PRESS.	DESIGN TEMP.	DUKE CLASS	MATERIAL	PIPE SPEC. NO.	PIPE SCH. NO.
1	B	3000	200	B	SS	10BL.2	NOTE 2
6	B	300	200	B	SS	2BL.2	NOTE 3
19	C	150	200	C	SS	10BL.3	NOTE 4
26	-	3000	200	E	SS	10BL.4	NOTE 2
22	B	300	200	E	SS	2BL.4	NOTE 3
28	B	3000	200	BC	SS	10BL.3	NOTE 2
41	-	300	200	BC	SS	2BL.3	NOTE 3
	-	3000	200	E	SS	10BL.4	NOTE 2

DESIGN FLOW

NO.	FLOW
1	48 GPM

NO.	REVISIONS	DATE
5	REV PER ONPR-3451	DEC 9-1
4	NON GS-32000/00, PT A, IMP. 9-22-01	OCL 31
ORIGINAL DRAWING RETIRED		
REVISIONS		





CONT'D

- 17. ORIFICE TO BE MADE BY DRILLING A Ø.375" HOLE IN 12" PIPE AT THE HALF COUPLING CONNECTION.
- 18. VALVE DESIGN PRESSURE AND TEMPERATURE WILL BE PER UPSTREAM LINE NO. CLASS PER DOWNSTREAM LINE NO.
- 19. FOR DETAILS OF PENETRATION SCHEDULE TRANSITION REFER TO O-2439C
- 20. ORIGINAL ISSUE OF THIS DWG. WAS BASED ON PD-102A-3, REV. 30
- 21. 12" SCH. #40
- 22. 3/4" SCH. #80

14

14

DESIGN PARAMETERS

LINE NO	DESIGN PRESS (PSIG)	DESIGN TEMP (°F)	DUKE CLASS	MATERIALS	PIPE SPEC NO	PIPE SCH NO	ISI CLASS
1	2500	650	A	SS	1501.1	NOTE 7	A
6	4700.505	3000.250	B	SS	301.2	NOTE 12	B
9	300	300	B	SS	301.2	NOTE 10	B
10	300	300	C	SS	301.4	NOTE 10	B
11	300	300	B	SS	301.2	NOTE 15	B
12	200	300	C	SS	151.3	NOTE 8	B
15	150	300	E	SS	151.4	NOTE 16	B
17	100	200	C	SS	151.3	NOTE 8	B
20	BLDC	300	B	SS	151.2	NOTE 11	B
21	BLDC	300	E	SS	151.4	NOTE 8	B
34	300	300	BC	SS	301.3	NOTE 10	B
36	BLDC	300	BC	SS	151.3	NOTE 8	B
42	2500	300	B	SS	1501.2	NOTE 9	A
43	ATM	300	H	SS	151.4	NOTE 8	A
44	2500	300	B	SS	1501.2	NOTE 7	A
46	4700.505	3000.250	G	SS	301.4	NOTE 14	B
48	3050	300	BC	SS	1501.3	NOTE 13	B
50	300	300	B	SS	301.2	NOTE 13	B
51	300	300	BC	SS	301.5	NOTE 13	B
52	4700.505	3000.250	E	SS	301.4	NOTE 14	B
55	ATM	200	E	SS	151.4	NOTE 8	C
56	ATM	200	C	SS	151.3	NOTE 8	C
57	ATM	150	C	SS	151.3	NOTE 8	B
58	ATM	150	E	SS	151.4	NOTE 8	B
60	2500	650	G	SS	1501.4	NOTE 21	B
67	2500	650	B	SS	1501.2	SCH. 160	B
68	300	300	B	SS	301.2	NOTE 21	B
69	300	300	BC	SS	301.3	NOTE 22	B

DESIGN FLOW

NO	FLOW
1	3000 GPM

NO.	REVISIONS	DRN	DATE	CHKD
14	REV. PER OE-4385	JMF	9-10-90	OCL
13	REV PER OE-3657, OE-3696, OE-3817	OCL	4-17-91	BHB
PRG.	ORIGINAL DRAWING RETIRED			

May 12, 1992

Docket Nos. 50-269, 50-270
and 50-287

Mr. J. W. Hampton
Vice President, Oconee Site
Duke Power Company
P. O. Box 1439
Seneca, South Carolina 29679

Dear Mr. Hampton:

SUBJECT: GENERIC ISSUE 143 - CHILLED WATER SYSTEMS AND ROOM COOLING

This is to inform you that on September 9 and 10, 1992, a team consisting of an NRC staff member and two NRC consultants will visit your Oconee Nuclear Site. The purpose of this visit will be to collect information in support of the resolution of Generic Issue 143 "Availability of Chilled Water Systems and Room Cooling." Details of the specific information needed are included in the attached information sheet.

I have discussed the schedule for this visit with Mr. Mark Patrick of your staff. Additional details concerning this visit will be provided prior to the visit. Station support in providing a knowledgeable escort and assembling the requested information would be appreciated.

If you have questions regarding this matter, contact me at (301) 504-1495.

Sincerely,
/s/

L. A. Wiens, Project Manager
Project Directorate II-3
Division of Reactor Projects - I/II
Office of Nuclear Reactor Regulation

Enclosure:
As stated

cc w/enclosure:
See next page

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UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555

Docket Nos. 50-269, 50-270
and 50-287

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Vice President, Oconee Site
Duke Power Company
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Sincerely,

A handwritten signature in cursive script, appearing to read "L. A. Wiens".

L. A. Wiens, Project Manager
Project Directorate II-3
Division of Reactor Projects - I/II
Office of Nuclear Reactor Regulation

Enclosure:
As stated

cc w/enclosure:
See next page

Mr. J. W. Hampton
Duke Power Company

Oconee Nuclear Station

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Columbia, South Carolina 29201

Office of Intergovernmental Relations
116 West Jones Street
Raleigh, North Carolina 27603

County Supervisor of Oconee County
Walhalla, South Carolina 29621

TOPICS FOR PLANT VISITS IN SUPPORT OF GI-143, CHILLED WATER SYSTEMS AND ROOM COOLING

PURPOSE OF VISIT

Collect information needed to determine the temperature rises following loss of room cooling in rooms containing safety-related equipment and sensitivity of components to failures at high temperatures.

GENERAL INFORMATION REQUIREMENTS

- thermal loads in rooms containing safety-related equipment from operation of the equipment and, in some rooms, from piping systems containing heated water.
- capabilities of the safety-related equipment to withstand relatively high temperatures
- possible actions that could be taken to respond to losses of room cooling, including actions to restore or supplement cooling in these rooms

SPECIFIC INFORMATION NEEDED

Room Cooler System Design and Operation

general flow diagram for room cooler system(s), including cooling water source (e.g., cooled directly by service water or plant includes intermediate chilled water cooling loop between service water system and room coolers), list of safety-related rooms requiring room cooling, and overall system flow rates and heat removal capacity(ies); operating procedures to cope with loss of room cooling.

Auxiliary Building Layout Information

description and dimensions of ECCS pump rooms, control room, electrical switchgear rooms, battery rooms, and diesel generator rooms; capacities of room coolers provided in these rooms; assessments of heat generation rates from equipment and piping systems contained in these rooms;

Vital Equipment Information

location and equipment qualification information (Appendix R and environmental qualification) on all ECCS equipment in rooms requiring room cooling, including: pumps, valves, electrical power supplies, control circuits, electrical cabinets, etc.

NOTE: For most of this information, it should be sufficient for the utility representative to simply provide for our review the environmental qualification and Appendix R information. This should minimize the inconvenience to utility staff resources. A relatively brief tour of the appropriate auxiliary building rooms should be sufficient for us to gather the needed room layout data.