

DUKE POWER COMPANY

OCONEE NUCLEAR STATION

ATTACHMENT 1

SECOND TEN YEAR INTERVAL

INSERVICE INSPECTION PROGRAM

RESPONSE TO NRC REQUEST FOR ADDITIONAL INFORMATION

ITEM 1: SCHEDULED UNIT OUTAGES FOR SECOND TEN YEAR INTERVAL

Oconee Unit 1: Outage 12 April 22, 1990
Outage 13 August 24, 1991
Outage 14 March 11, 1993

Oconee Unit 2: Outage 10 May 20, 1989
Outage 11 September 18, 1990
Outage 12 February 13, 1992
Outage 13 July 23, 1993

Oconee Unit 3: Outage 11 November 16, 1989
Outage 12 March 13, 1991
Outage 13 September 24, 1992
Outage 14 March 4, 1994

ITEM 2: STRESS WELD SCHEDULING

Scheduling for examination was verified for the nine (9) Class I stress welds identified. Of the nine (9) welds eight (8) were scheduled. The ninth (9th) weld (2PDB2-10) is now scheduled for examination in Outage 10. Each weld number is listed in the following with its item number and scheduled outage.

CLASS I WELDS

(1PSL-10) B05.050.009, Outage 9 (Appendix A)
(1PSL-11) E05.001.001, Outage 12 (Appendix A)
(1PDB1-11) B05.051.008, Outage 13 (Appendix A)
(1PDB2-11) B05.051.011, Outage 13 (Appendix A)

(2PSL-10) B05.050.009, Outage 8 (Appendix A)
(2PSL-11) E06.001.001, Outage 12 (Appendix A)
(2PDB2-10) B09.032.008, Outage 10 (Addendum 20CN-0188)
(3PSL-10) B05.050.009, Outage 11 (Appendix A)
(3PSL-11) E05.001.001, Outage 12 (Appendix A)

ITEM 2: CLASS II WELDS

Scheduling was verified for the seventeen (17) Class 2 stress welds identified. Of the seventeen welds one (1) (2-01A-2MS20A-E) was inadvertently listed in Section 5.2 as a stress weld. This weld has been deleted from Section 5.2 of Volume 1 (See Addendum OCN-0011). Seven (7) Unit 1 welds are piping attachment welds. ASME Section XI does not apply stress criteria to attachment welds, but Duke chose to inspect attachments in high stress areas. Of these seven (7) welds three (3) were scheduled for examination in Appendix A as shown on the following list. The remaining four (4) attachment welds are now scheduled for examination as shown on the following list and on attached plan Addendum 10CN-0261 which was written to schedule and/or clarify all class 2 weld numbers. Of the remaining nine

(9) welds eight (8) were scheduled for examination in Appendix A as shown in the following list. The ninth (9th) weld (1-53B-6.2-26KC) is now scheduled for examination in Outage 12.

CLASS II WELDS

Piping Attachment Welds

(1-01A-MS13A-C)	C03.040.008, Outage 14 (Appendix A)
(1-01A-2-31BE)	C03.040.073, Outage 10 (Appendix A)
(1-01A-MS17B-C)	C03.040.004, Outage 9 (Appendix A, OCN-0011)
(1-01A-2-4BA)	C03.040.019, Outage 14 (Addendum 10CN-0261)
(1-01A-2-13BA)	C03.040.020, Outage 14 (Addendum 10CN-0261)
(1-01A-2-13BD)	C03.040.018, Outage 12 (Addendum 10CN-0261)
(1-03-3-36BA)	C03.040.037, Outage 12 (Addendum 10CN-0261)

CIRCUMFERENTIAL WELDS

(1-53B-6.1-21KA)	C05.031.007, Outage 13 (Appendix A)
(2-01A-4-MS21A-A)	C05.021.114, Outage 12 (Appendix A, OCN-0011)
(2-01A-MS21A-C)	C05.021.128, Outage 9 (Appendix A, OCN-0011)
(2-01A-15-MSB10-E)	C05.021.132, Outage 10 (Appendix A, OCN-0011)
(2-01A-MSB-10F)	C05.031.202, Outage 12 (Appendix A, OCN-0011)
(3-53B-34-06)	C05.011.021, Outage 12 (Appendix A, 30CN-0191)
(3-53B-34-07)	C05.011.019, Outage 12 (Appendix A, 30CN-0191)
(3-53B-34-08)	C05.011.020, Outage 12 (Appendix A, 30CN-0191)
(1-53B-6.2-26KC)	C05.031.008, Outage 12 (Addendum 10CN-0261)

(2-01A-2MS20A-E) Delete from Volume 1, Section 5.2 (OCN-0011)

ITEM 2: CLASS II WELDS, SECTION 5.2

Plan addenda OCN-0011 was written to clarify weld numbers and match Volume 1 Section 5.2 with Appendix A ID numbers.

ITEM 3: EXAMINATION CATEGORIES AND REQUIREMENTS

Plan Addendum OCN-0012 was written to insert the word "NONE" into the comments of items B4.11 and B7.50. Items D1.20 through D3.60, Class III piping attachment welds all require the same examination. Based on this criteria, originally all class III piping attachments were listed for examination under category D2.20. This method of accountability was temporarily altered and a few attachments were added under categories D2.30, D2.40 and D2.60. This inconsistency has been corrected and all future Class III piping attachments will be addressed under category D2.20.

ITEM 4(A): ITEM B2.51

Oconee Unit 3 letdown coolers differ in design from Units 1 and 2. Oconee Unit 3 coolers do not have the channel body to end plate weld as Units 1 and 2 have.

ITEM 4(B): ITEMS B3.150 AND B3.160

Four (4) nozzle-to-vessel welds and inside radius sections are required for Oconee Units 1, 2 and 3. In Oconee Unit 1 during outage 9 letdown cooler B was replaced thus removing outage 8 item numbers B03.150.005, B03.150.006, B03.160.005 and B03.160.006. This is stated in the comments for each of the above item numbers.

ITEM 4(C): ITEM B5.50, SURFACE EXAMINATION

Volumetric and surface examination for weld 2-53-10-10A (B05.050.011) was performed with safe-end weld 2PHA-17 (B05.050.010) during outage 7. Volumetric and surface examination for safe-end weld 2PHB-17 (B05.050.012) was performed with weld 2PSL-10 (B05.050.009) during outage 8.

ITEM 4(D): ITEM B9.11, SURFACE EXAMINATION

Requested relief from this code requirement for the following three (3) welds: (See Volume 1, section 9, request for relief ONS-001)

1-53A-2.3-43L (B09.011.090)
3-53A-15.1-44 (B09.011.151)
3-53A-16-01 (B09.011.159)

ITEM 4(E): PRESSURIZER SPRAY PIPING TERMINAL END

The Unit 2 pressurizer spray piping terminal end weld 2PSP-1 is now scheduled for examination in outage 12. (See Addendum 20CN-0188)

ITEM 4(F): ITEM B13.30

The visual examination of the core support structure for Oconee Unit 3 was scheduled for outage 13 in Revision 5 of the ISI Plan. (See 30CN-0147 Dated 3/21/88)

ITEM 4(G): ITEM B15.10 - B15.71, HYDROSTATIC TEST

All required hydrostatic tests (IWB-5222) are scheduled for Unit 3. Refer to attached ISI Plan Addenda 30CN-0143 & 30CN-0192.

Examinations for B15.070 and for B15.071 are covered in the ISI Plan by item numbers B15.050 and B15.051 respectively for all 3 units. Refer to attached ISI Plan Addenda 10CN-0262, 20CN-0190 and 30CN-0192.

ITEM 4(H): ITEM C5.21, SURFACE EXAMINATION

Oconee Unit 3 weld 3-03A-97-8A (C05.021.205 and C05.021.205A) received a surface examination during outage 8 and a volumetric examination during outage 9.

ITEM 4(I): ITEMS C7.10 - C7.41, HYDROSTATIC TEST

All required hydrostatic tests (IWC-5222) are scheduled for unit 3. Refer to attached ISI Plan Addenda 30CN-0144, 30CN-0189 & 30CN-0193.

Examinations for C07.040 and for C07.041 are covered in the ISI Plan by item numbers C07.020 and C07.021 respectively for all 3 units. Refer to attached ISI Plan Addenda 10CN-0262, 20CN-0185, 20CN-0190 and 30CN-0193.

ITEM 4(J): ITEMS D1.10 - D3.10, HYDROSTATIC TEST

All required hydrostatic tests (IWD-5223) are scheduled for unit 3. Refer to attached ISI Plan Addenda 30CN-0145, 30CN-0146, 30CN-0189 and 30CN-0194.

As previously identified, attached are listings from the current Appendix A Revision 5 of the ISI Plan along with various ISI Plan Addenda. This information is provided to verify scheduling of all identified items of concern.

ITEM 5: RELIEF REQUESTS

Flow diagrams for the subject relief requests are attached. The following is a discussion of the individual requests:

- 5.a 1LPSW 6 is shown at coordinates (L-2) on OFD-124B-1.4, the Marbo Plug is shown on OFD-124A-1.1 (J-B). The Marbo Plug is an isolation device that uses system pressure on the back side to aid in seating the plug. Vendor information regarding Marbo Plugs is attached. A 20" plug is designed for a maximum operating pressure of 750 psi, however, hydrostatic test pressure would be on the upstream side of the plug and thus would cause the plug to unseat.

1LPSW-15 is shown on OFD-124B-1.4 (G-14) and 2LPSW-15 is shown on OFD-124B-2.4 (G-14). The only valve between LPSW-15 and the Condenser Circulating Water system is 2LPSW-71, a butterfly valve. This valve leaks enough that a hydrostatic test can not be performed.
- 5.b 1FDW-207 and 1FDW-209 are the first valves off the 1B steam generator. These valves are shown on OFD-121B-1.5 coordinates (D-1)(1FDW-207) and D-2(1FDW-209). To hydrostatic test the welds on these two valves would require filling the steam generator, main steam line to the turbine stop valves, and the feedwater line to 1FDW-335. This would also result in one additional pressure cycle on the steam generator.
- 5.c.1 1FDW-329 is a Duke Class F, ISI Class B valve that was disassembled to repair a body-to-bonnet leak. The only item that was replaced was the bonnet gasket. This request was submitted because the valve was inaccessible during unit operation. Review of the work has determined that no pressure test was required thus no relief is required (no welding was performed). Duke hereby withdraws the Sept. 25, 1987 relief request for 1FDW-329.

- 5.c.2 ISF-65 is a Duke Class C, ISI Class C. This valve was tested Sept. 22, 1987 and passed the hydrostatic test. At the time relief was requested the Unit was operating and thus inaccessible to test. This valve was disassembled and repaired after refueling efforts were completed, since at that time it was impractical to fill the canal with water and the decision was made to wait until next outage to leak test the valve. The resolution was to request relief until such time as the test could be performed. In September, 1987, Unit 1 was shutdown, a rubber plug was placed in the line, and a hydrostatic test performed.
- 5.c.3 1BS-14 is a Duke Class B, ISI Class B. The valve has been tested. The work done on 1BS-14 was to replace all body flange bolts, so that only the test required was a VT-2 inspection at operating pressure. Upon further review, Duke has determined that relief from IWA-4440 is not required. Duke hereby withdraws the Sept. 25, 1987 relief request for 1BS-14.
- 5.c.4 2LP-45 was a Duke Class B, ISI Class A valve, it has since been replaced by 2LP-131.
- 5.d 2LP-131 is shown on OFD-100A-2.2, 2LP-132 and 2LP-133 are shown on OFD-102A-2.2. These valves can not be isolated from the Reactor Coolant System.

DUKE POWER COMPANY

OCONEE NUCLEAR STATION

ATTACHMENT 2

SECOND TEN YEAR INTERVAL

INSERVICE INSPECTION LISTING

ISI PLAN ADDENDUM

PROGRAM: NISIRUNB-QAISI02
 FILE: C007133
 PLANT: OCONEE UNIT 1
 KEY: ITEM NUMBER B05

DUKE POWER COMPANY
 QUALITY ASSURANCE DEPARTMENT
 PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
 INSERVICE INSPECTION LISTING FOR OUTAGE 9 REV. 5

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 DATE 01/25/88

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
B05.050.002	1PDA1-2	OM-201-1844 ISI-0CN1-011	_____	UT	ISI-120	CS/SS	33.50 03.000	40350	A1 DISCH PUMP SE TO ELBOW UT FROM ELBOW SIDE PC 212 TO 213
B05.050.002A	1PDA1-2	OM-201-1844 ISI-0CN1-011	_____	UT	ISI-120	CS/SS	33.50 03.000	40397	A1 DISCH PUMP SE TO ELBOW UT FROM SE SIDE PC 212 TO 213
B05.050.002B	1PDA1-2	OM-201-1844 ISI-0CN1-011	_____	PT	NDE-35	CS/SS	33.50 03.000	-----	A1 DISCHARGE PUMP SE TO ELBOW PC 212 TO 213
B05.050.009	1PSL-10	OM-201-594 ISI-0CN1-015	_____	UT	ISI-120	CS/SS	11.50 00.900	40414	A HOT LEG SURGE LINE NOZ.SE,UT NOZ.SIDE, SELECTION CRIT.4.2.1
B05.050.009A	1PSL-10	OM-201-594 ISI-0CN1-015	_____	UT	ISI-120	CS/SS	11.90 01.000	40399	A HOT LEG SURGE LINE NOZ.SE,UT PIPE SIDE,SELECTION CRIT.4.2.1
B05.050.009B	1PSL-10	OM-201-594 ISI-0CN1-015	_____	PT	NDE-35	CS/SS	11.50 00.900	-----	A HOT LEG SURGE LINE NOZ.SE,PC 25 TO 85, SELECTION CRIT.4.2.1
B05.051.000	CLASS 1 PIPING	DISSIMILAR METAL**** BUTT WELDS*****	_____	***	*****	*****	_____ _____ _____	*****	NOMINAL PIPE SIZE < 4 INCH**** *****

PROGRAM: NISIRUNB-QAISI02
FILE: C007133
PLANT: OCONEE UNIT 1
KEY: ITEM NUMBER C03

DUKE POWER COMPANY
QUALITY ASSURANCE DEPARTMENT
PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
INSERVICE INSPECTION LISTING FOR OUTAGE 9 REV. 5

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ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
C03.010.000	***** PRESSURE	VESSELS INTEGRALLY** WELDED ATTACHMENTS**	_____	***	*****	*****	_____ _____ _____	*****	***** ***** *****
C03.010.001	1SGA-WG84-XY	OM-201-176	_____	MT	NDE-25	CS	01.000	----	SGA FEEDWATER HDR SUPPORT ATT. X-Y QUADRANT NEAREST TO X AXIS
C03.010.002	1SGA-WG84-YX	OM-201-176	_____	MT	NDE-25	CS	01.000	----	SGA FEEDWATER HDR SUPPORT ATT. X-Y QUADRANT NEAREST TO Y AXIS
C03.010.024	1-CFTB-WT18-Z	OM-201-1021	_____	MT	NDE-25	CS	02.000	----	CORE FLD TK SUPPORT ATTACH. Z QUADRANT PC 18 TO 12
C03.040.000	*** CLASS 2 PIPING	INTEGRALLY WELDED ** ATTACHMENTS *****	_____	***	*****	_____	_____ _____ _____	_____	***** ***** *****
C03.040.004	1-01A-550-R10	0-550	_____	MT	NDE-25	CS	01.000	----	MAIN STM B. - RIGID
C03.040.011	1-01A-0550-H12	0-550	_____	MT	NDE-25	CS	01.000	----	MAIN STM. A - RIGID
C03.040.021	1-JWC-1707	0-490B-2A	_____	MT	NDE-25	CS	01.000	----	MAIN FDWTR. A - RIGID

PROGRAM: NISIRUNB-QAISI02
 FILE: C007133
 PLANT: OCONEE UNIT 1
 KEY: ITEM NUMBER C03

DUKE POWER COMPANY
 QUALITY ASSURANCE DEPARTMENT
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ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./THICK	CALIB BLOCK	COMMENTS
C03.040.041	1-51-SR4	0-435C		PT	NDE-35	SS	00.750	----	HPI - RIGID 1-51-0-435C-SR4
C03.040.042	1-51-SR5	0-435C		PT	NDE-35	SS	00.750	----	HPI - RIGID 1-51-0-435C-SR5
C03.040.072	1-54A-R16	0-439A		PT	NDE-35	CS	01.000	----	R.B. SPRAY - HYD. SNUBBER 1-54A-0-439A-R16
C03.040.073	1-01A-H8B	0-480A		MT	NDE-25	CS	01.500	----	MAIN STM. - SPRING (4 LUGS = 1.750") 01A-0-480A-H8B

PROGRAM: NISIRUNB-QAISI02
FILE: C007133
PLANT: OCONEE UNIT 1
KEY: ITEM NUMBER E05

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INSERVICE INSPECTION LISTING FOR OUTAGE 12 REV. 5

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ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
E05.001.001	1PSL-11	ISI-OCN1-015		PT	NDE-35	SS	01.00 00.250	-----	SELECTION CRITERIA 4.2.1

PROGRAM: NISIRUNB-QAISI02
 FILE: C007133
 PLANT: OCONEE UNIT 1
 KEY: ITEM NUMBER B05

DUKE POWER COMPANY
 QUALITY ASSURANCE DEPARTMENT
 PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
 INSERVICE INSPECTION LISTING FOR OUTAGE 13 REV. 5

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ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./THICK	CALIB BLOCK	COMMENTS
B05.051.007	1PIB1-12	OM-201-2296 ISI-OCN1-009	_____	PT	NDE-35	CS/IN	07.50 03.000	-----	B1 SUCTION RTE NOZZLE SAFE END PC 58 TO 215
B05.051.008	1PDB1-11	OM-201-597 ISI-OCN1-013	_____	PT	NDE-35	CS/SS	03.50 00.750	-----	B1 DISCHARGE HPI NOZZLE TO SAFE END PC 46 TO 47
B05.051.011	1PDB2-11	OM-201-597 ISI-OCN1-014	_____	PT	NDE-35	CS/SS	03.50 00.750	-----	B2 DISCH. HPI NOZ. TO SE UT FROM NOZ. SIDE PC 46 TO 47
B05.051.015	1PHB-13	OM-201-2296 ISI-OCN1-006	_____	PT	NDE-35	IN/CS	07.50 03.500	-----	B HOT LEG RTE NOZ. SM X-AXIS PC 12 TO 7
B05.051.016	1PHB-14	OM-201-2296 ISI-OCN1-006	_____	PT	NDE-35	IN/CS	07.50 03.500	-----	B HOT LEG RTE NOZ. SM Y-Z AXIS PC 12 TO 7
B05.051.017	1PHB-15	OM-201-2296 ISI-OCN1-006	_____	PT	NDE-35	CS/IN	07.50 03.500	-----	B HOT LEG RTE NOZ SM Z-W AXIS PC 12 TO 7

PROGRAM: NISIRUNB-QAISI02
FILE: C007133
PLANT: OCONEE UNIT 1
KEY: ITEM NUMBER C05

DUKE POWER COMPANY
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PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
INSERVICE INSPECTION LISTING FOR OUTAGE 13 REV. 5

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ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
C05.021.116A	1-03-03-44B	SYS 03 ISO 03		MT	NDE-25	CS	14.00 00.750		
									ADDED PER IWC-2430(A)
C05.022.000	***** CLASS 2 PIPING	LONGITUDINAL WELDS * *****		***	***** *****				GREATER THAN 1/2 IN. ***** NOMINAL WALL THICKNESS *****
C05.031.000	CLASS 2 PIPING	BRANCH CONNECTION WELDS*****		***	***** *****	*****		*****	***** *****
C05.031.007	1-53B-6.1-21KA	SYS 53B ISO 06.01		PT	NDE-35	SS	10.00 00.165		
C05.031.009	1-53B-06-26KI	SYS 53BISO 06.02		PT	NDE-35	SS	06.00 00.165		

PROGRAM: NISIRUNB-QAISI02
 FILE: C007133
 PLANT: OCONEE UNIT 1
 KEY: ITEM NUMBER C03

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 INSERVICE INSPECTION LISTING FOR OUTAGE 14 REV. 5

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ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
C03.010.000	***** PRESSURE	VESELS INTEGRALLY** WELDED ATTACHMENTS**	=====	***	*****	*****	---	*****	***** *****
C03.040.000	*** CLASS 2 PIPING	INTEGRALLY WELDED ** ATTACHMENTS *****	=====	***	*****	---	---	---	***** *****
C03.040.007	1-01A-R1	0-550	=====	MT	NDE-25	CS	01.000	-----	MAIN STM. B - SNUBBER 1-01A-0-550-R1
C03.040.008	1-01A-R3	0-550	=====	MT	NDE-25	CS	00.750	-----	MAIN STM. A - SNUBBER 1-01A-0-550-R3
C03.040.009	1-01A-H5	0-550	=====	MT	NDE-25	CS	00.750	-----	MAIN STM. A - TWIN SPRING 1-01A-0-550-H5
C03.040.060	1-54A-H33	0-435B	=====	PT	NDE-35	-----	10.00 01.000	-----	REACTOR BLDG. SPRAY - SPRING 1-54A-1-0-435B-H33

PROGRAM: NISIRUNB-QAISI02
 FILE: C007133
 PLANT: OCONEE UNIT 2
 KEY: ITEM NUMBER B05

DUKE POWER COMPANY
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 PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
 INSERVICE INSPECTION LISTING FOR OUTAGE 8 REV. 5

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ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
B05.050.007A	2PIB2-7	ISI-0CN2-010		UT	ISI-120	CS/SS	33.50 03.000	40397	B2 SUCTION PUMP SAFE END TO PIPE UT FROM SE SIDE
B05.050.007B	2PIB2-7	ISI-0CN2-010		PT	NDE-35	CS/SS	33.50 03.000	-----	B2 SUCTION PUMP SAFE END TO PIPE PC 55 TO 56
B05.050.009	2PSL-10	ISI-0CN2-015		UT	ISI-120	CS/SS	11.50 00.900	40414	B HOT LEG SURGE LINE NOZ.SE,UT NOZ.SIDE,SELECTION CRIT. 4.2.2
B05.050.009A	2PSL-10	ISI-0CN2-015		UT	ISI-120	CS/SS	11.50 00.900	40399	B HOT LEG SURGE LINE NOZ.SE,UT PIPE SIDE,SELECTION CRIT.4.2.2 GEOMETRIC REFLECTOR
B05.050.009B	2PSL-10	ISI-0CN2-015		PT	NDE-35	CS/SS	11.50 00.900	-----	B HOT LEG SURGE LINE NOZ.SE,PC 25 TO 85, SELECTION CRIT.4.2.2
B05.050.012	2PHB-17	ISI-0CN2-006		UT	ISI-120	IN/CS	11.50 00.900	40414	INSP. PERFORMED WITH 2PSL-10 B-HOT LEG NOZ. SE
B05.051.000	***** CLASS 1 PIPING	DISSIMILAR METAL**** BUTT WELDS*****		***	***** *****		--- ---	---	NOMINAL PIPE SIZE < 4 INCHES *****
B05.051.009	2PIB2-11	ISI-0CN2-010		PT	NDE-35	CS/SS	03.50 00.816	-----	B2 SUCTION DRAIN NOZZLE SAFE END PC 64 TO 65

PROGRAM: NISIRUNB-QAISI02
FILE: C007133
PLANT: OCONEE UNIT 2
KEY: ITEM NUMBER C05

DUKE POWER COMPANY
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INSERVICE INSPECTION LISTING FOR OUTAGE 9 REV. 5

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ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
C05.021.128	2-01A-MS21A-C	SYS 01A ISO 4.1 2MS-21A		RT	NDE-12	CS	24.00 00.968	----	SELECTION CRTIERIA 5.2
C05.021.128A	2-01A-MS21A-C	SYS 01A ISO 4.1 2MS-21A		MT	NDE-25	CS	24.00 00.968	----	SELECTION CRTIERIA 5.2
C05.021.134	2-01A-5.3-17	SYS 01A ISO 5 PT 3		RT	NDE-12	CS	08.00 00.906	----	
C05.021.134A	2-01A-5.3-17	SYS 01A ISO 5 PT 3		MT	NDE-25	CS	08.00 00.906	----	
C05.021.202	2-03A-10-61	SYS 03A ISO 10		RT	NDE-12	CS	06.00 00.562	----	
C05.021.202A	2-03A-10-61	SYS 03A ISO 10		MT	NDE-25	CS	06.00 00.562	----	
C05.021.206	2-03A-67-14	SYS 03A ISI 67		RT	NDE-12	CS	06.00 00.562	----	
C05.021.206A	2-03A-67-14	SYS 03A ISO 67		MT	NDE-25	CS	06.00 00.562	----	

PROGRAM: NISIRUNB-QAISI02
FILE: C007133
PLANT: OCONEE UNIT 2
KEY: ITEM NUMBER C05

DUKE POWER COMPANY
QUALITY ASSURANCE DEPARTMENT
PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
INSERVICE INSPECTION LISTING FOR OUTAGE 10 REV. 5

PAGE 33
DATE 01/25/88

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
C05.021.113	2-01A-5.1-1A	SYS 01A ISO 5 PT 1		RT	NDE-12	CS	12.00 00.562		
C05.021.113A	2-01A-5.1-1A	SYS 01A ISO 5 PT 1		MT	NDE-25	CS	12.00 00.562		
C05.021.122	2-01A-MS5B-A	SYS 01A ISO 5 PT 5 GRINN SUB ASSY MS5B		RT	NDE-12	CS	26.00 00.875		
C05.021.122A	2-01A-MS5B-A	SYS 01A ISO 5 PT 5 GRINN SUB ASSY MS5B		MT	NDE-25	CS	26.00 00.875		
C05.021.127	2-01A-4.2-29	SYS 01A ISO 4 PT 2		RT	NDE-12	CS	36.00 01.164		
C05.021.127A	2-01A-4.2-29	SYS 01A ISO 4 PT 2		MT	NDE-25	CS	36.00 01.164		
C05.021.132	201A15-MSB10-E	SYS 01A ISO 15 2MSB-10		RT	NDE-12	CS	12.00 00.562		SELECTION CRTIERIA 5.2
C05.021.132A	201A15-MSB10-E	SYS 01A ISO 15 2MSB-10		MT	NDE-25	CS	12.00 00.562		SELECTION CRTIERIA 5.2

PROGRAM: NISIRUNB-QAISI02
FILE: C007133
PLANT: OCONEE UNIT 2
KEY: ITEM NUMBER C05

DUKE POWER COMPANY
QUALITY ASSURANCE DEPARTMENT
PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
INSERVICE INSPECTION LISTING FOR OUTAGE 12 REV. 5

PAGE 44
DATE 01/25/88

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
C05.021.102A	2-01A-5.2-43	SYS 01A ISO 5 PT 2		MT	NDE-25	CS	26.00 00.875		
C05.021.105	2-01A-5.2-42	SYS 01A ISO 5 PT 2		RT	NDE-12	CS	26.00 00.875		
C05.021.105A	2-01A-5.2-42	SYS 01A ISO 5 PT 2		MT	NDE-25	CS	26.00 00.875		
C05.021.106	2-01A-5.2-45	SYS 01A ISO 5 PT 2		RT	NDE-12	CS	26.00 00.875		
C05.021.106A	2-01A-5.2-45	SYS 01A ISO 5 PT 2		MT	NDE-25	CS	26.00 00.875		
C05.021.114	201A-4-MS21A-A	SYS 01A ISO 4.1 2MS-21A		RT	NDE-12	CS	24.00 00.968		SELECTION CRITERIA 5.2
C05.021.114A	201A-4-MS21A-A	SYS 01A ISO 4.1 2MS-21A		MT	NDE-25	CS	24.00 00.968		SELECTION CRITERIA 5.2
C05.021.115	2-01A-4.1-17	SYS 01A ISO 4 PT 1		RT	NDE-12	CS	36.00 01.164		SELECTION CRITERIA 5.2

PROGRAM: NISIRUNB-QAISI02
FILE: C007133
PLANT: OCONEE UNIT 2
KEY: ITEM NUMBER C05

DUKE POWER COMPANY
QUALITY ASSURANCE DEPARTMENT
PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
INSERVICE INSPECTION LISTING FOR OUTAGE 12 REV. 5

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DATE 01/25/88

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
C05.031.202	2-01A-2MSB-10F	SYS 01A ISO 15 GRINN SUB 2MSB-10	_____	MT	NDE-25	CS	06.00 00.432	-----	REINFORCEMENT COLLAR, INSP. ALL WELDS, SELECTION CRITERIA 5.2
C05.031.204	2-01A-2MS14A-B	SYS 01A ISO 4.1 GRINN SUB ASSY MS14A	_____	MT	NDE-25	CS	12.00	-----	BASELINE OUT. 8 BASELINE OUT. 8

PROGRAM: NISIRUNB-QAISI02
FILE: C007133
PLANT: GCONEE UNIT 2
KEY: ITEM NUMBER E06

DUKE POWER COMPANY
QUALITY ASSURANCE DEPARTMENT
PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
INSERVICE INSPECTION LISTING FOR OUTAGE 12 REV. 5

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DATE 01/25/88

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
E06.001.001	2-PSL-11	ISI-OCN2-015		PT	NDE-35	SS	01.00 00.250	-----	SELECTION CRITERIA 4.2.2

PROGRAM: NISIRUNB-QAISI02
 FILE: C007133
 PLANT: OCONEE UNIT 3
 KEY: ITEM NUMBER B05

DUKE POWER COMPANY
 QUALITY ASSURANCE DEPARTMENT
 PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
 INSERVICE INSPECTION LISTING FOR OUTAGE 11 REV. 5

PAGE 7
 DATE 01/25/88

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
B05.010.000	REACTOR VESSEL	NOZZLE TO SAFE END** BUTT WELDS*****	_____	***	*****	*****	_____ _____ _____	*****	NOMINAL PIPE SIZE GREATER THAN OR EQUAL TO 4 INCH
B05.020.000	***PRESSURIZER	NOZZLE TO SAFE END** BUTT WELDS	_____	***	*****	*****	_____ _____ _____	*****	NOMINAL PIPE SIZE > OR EQUAL TO 4 INCHES
B05.021.000	*****PRESSURIZER	NOZZLE-TO-SAFE END BUTT WELDS *****	_____	***	*****	_____	_____ _____ _____	_____	NOMINAL PIPE SIZE < 4 IN. **** *****
B05.021.003	3PZR-WP91-3	ISI-0CN3-002	_____	PT	NDE-35	CS/SS	02.50 00.375	_____	PZR RELIEF NOZZLE SAFE END Z-W AXIS PC 32 TO 31
B05.050.000	CLASS 1 PIPING	DISSIMILAR METAL**** BUTT WELDS*****	_____	***	*****	*****	_____ _____ _____	*****	NOMINAL PIPE SIZE 4 IN. & OVER *****
B05.050.009	3PSL-10	ISI-0CN3-015	_____	UT	ISI-120	CS/SS	11.50 00.900	40414	B HOT LEG SURGE LINE NOZ.SE,UT NOZ.SIDE, SELECTION CRIT.4.2.3
B05.050.009A	3PSL-10	ISI-0CN3-015	_____	UT	ISI-120	CS/SS	11.90 01.000	40399	B HOT LEG SURGE LINE NOZ.SE,UT PIPE SIDE,SELECTION CRIT.4.2.3
B05.050.009B	3PSL-10	ISI-0CN3-015	_____	PT	NDE-35	CS/SS	11.50 00.900	-----	B HOT LEG SURGE LINE NOZ.SE,PC 25 TO 85, SELECTION CRIT.4.2.3

PROGRAM: NISIRUNB-QAISI02
FILE: C007133
PLANT: OCONEE UNIT 3
KEY: ITEM NUMBER C05

DUKE POWER COMPANY
QUALITY ASSURANCE DEPARTMENT
PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
INSERVICE INSPECTION LISTING FOR OUTAGE 12 REV. 5

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DATE 01/25/88

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
C05.011.000	**** CLASS 2 PIPING	CIRCUMFERENTIAL WELD *****		***	*****	*****	---	*****	NOMINAL WALL THICKNESS ***** 1/2 IN, OR LESS *****
C05.011.019	3-53B-34-07	SYS 53B ISO 34		PT	NDE-35	SS	14.00 00.250	----	
C05.011.020	3-53B-34-08	SYS 53B ISO 34		PT	NDE-35	SS	14.00 00.250	----	
C05.011.021	3-53B-34-06	SYS 53B ISO 34		PT	NDE-35	SS	14.00 00.250	----	
C05.011.043	3-53B-44-17	SYS 53B ISO 44		PT	NDE-35	SS	12.00 00.180	----	SELECTION CRITERIA 5.2
C05.011.044	3-53B-44-19	SYS 53B ISO 44		PT	NDE-35	SS	12.00 00.180	----	SELECTION CRITERIA 5.2
C05.011.046	3-53B-44-18	SYS 53B ISO 44		PT	NDE-35	SS	12.00 00.180	----	SELECTION CRITERIA 5.2
C05.011.047	3-53B-45-29	SYS 53B ISO 45		PT	NDE-35	SS	10.00 00.250	----	

PROGRAM: NISIRUNB-QAISI02
FILE: C007133
PLANT: OCONEE UNIT 3
KEY: ITEM NUMBER E05

DUKE POWER COMPANY
QUALITY ASSURANCE DEPARTMENT
PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
INSERVICE INSPECTION LISTING FOR OUTAGE 12 REV. 5

PAGE 53
DATE 01/25/88

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
E05.001.001	3PSL-11	ISI-OCN3-015		PT	NDE-35	SS	01.00 00.250	-----	SELECTION CRITERIA 4.2.3

DUKE POWER COMPANY
QUALITY ASSURANCE DEPARTMENT
OPERATIONS DIVISION

ISI PLAN ADDENDUM

Updated: _____

Serial No. OCN-0011

Verified: _____

Sheet 1 of 1Current Plan Revision 5Station OCONEEUnit N/AVolume 1Section 5Page 4

Detailed Description of Proposed Change: _____

UNDER SECTION 5.2, UNIT 2, DELETE WELD
NUMBER 2-OIA-2MS20A-E AND REVISE THE
FOLLOWING WELD NUMBERS AS SHOWN BELOW:

(FROM)

(TO)

2-OIA-4.1-21A-A

2-OIA-4-MS21A-A

2-OIA-4.1-21A-C

2-OIA-MS21A-C

2-OIA-15-10-E

2-OIA-15-MSB10-E

2-OIA-15-10-F

2-OIA-2MSB-10F

UNDER SECTION 5.2, UNIT 1, REVISE WELD
NUMBER 1-OIA-MS717B-C TO READ 1-OIA-MS17B-C.

Originated By TL TucknerDate 4/29/89Approved By JR HuntDate 5/4/89

DUKE POWER COMPANY
QUALITY ASSURANCE DEPARTMENT
OPERATIONS DIVISION

ISI PLAN ADDENDUM

Updated: _____

Serial No. OCN-0012

Verified: _____

Sheet 1 of 1Current Plan Revision 5Station OCONEEUnit N/AVolume 1Section 4Page 3 AND 4

Detailed Description of Proposed Change: _____

UNDER SECTION 4.1 INSERT THE WORD
"NONE" INTO THE COMMENTS OF IWB-2500-1
ITEMS B4.11 AND B7.50

Originated By TL TuckerDate 4/29/89Approved By MR HuntDate 5/4/89

DUKE POWER COMPANY
QUALITY ASSURANCE DEPARTMENT
OPERATIONS DIVISION

ISI PLAN ADDENDUM

Updated: TLT 5/1/89Verified: QAC 5/5/89Serial No. 10CN-0261Sheet 1 of 2Current Plan Revision 5Station OCONEEUnit 1Volume 2Section APPENDIX APage N/A

Detailed Description of Proposed Change:

SCHEDULE THE FOLLOWING ITEM NUMBERS AS SHOWN
ON SHEET 2 FOR OUTAGES 12 AND 14 :

C03.040.018, C03.040.019, C03.040.020,
C03.040.037 AND C05.031.008

MAKE CHANGES AS SHOWN ON SHEET 2 FOR
THE FOLLOWING ITEM NUMBERS FOUND IN OUTAGES 9, 10, 11 & 14:
C03.040.004, C03.040.008 AND C03.040.073

Originated By TL TuckDate 4/29/89Approved By JR HuntDate 5/4/89

SERIAL NO. 10CN-0261

SHEET 2 of 2

[illegible]

DUKE POWER COMPANY
QUALITY ASSURANCE DEPARTMENT
OPERATIONS DIVISION

ISI PLAN ADDENDUM

Updated: AW 5/8/89Verified: AW 5/8/89Serial No. 10CN-0262Sheet 1 of 2Current Plan Revision 5Station OCONEEUnit 1Volume 2Section APPENDIX APage N/A

Detailed Description of Proposed Change:

FOR ITEM NUMBER B15.070.000: ADD OUTAGE SCHEDULES
8, 9, 10, 11, 12 & 14.FOR ITEM NUMBER B15.071.000: ADD OUTAGE SCHEDULE 13.FOR ITEM NUMBER C07.040.000: CORRECT COMMENTS
TO READ: "PRESSURE RETAINING COMPONENTS COVERED
IN C07.020.000.ADD OUTAGE SCHEDULES 9, 10, 11, 12 & 13.FOR ITEM NUMBER C07.041.000: CORRECT COMMENTS
TO READ "PRESSURE RETAINING COMPONENTS COVERED
IN C07.021.000."ADD OUTAGE SCHEDULE 14.Originated By A. J. Hogge, Jr.Date 5-3-89Approved By W. R. HuntDate 5-5-89

DUKE POWER COMPANY
QUALITY ASSURANCE DEPARTMENT
OPERATIONS DIVISION

ISI PLAN ADDENDUM CONTINUATION SHEET

Serial No. 10CN-0262

Sheet 2 of 2

Detailed Description of Proposed Change: _____

FOR ITEM NUMBER C07.021.005 CORRECT COMMENTS
AS FOLLOWS:

"CLASS B SYSTEM HYDRO TEST INCL.
SHEET NO. 1, 2 & 3"

FOR ITEM NUMBER C07.021.008 CORRECT COMMENTS
AS FOLLOWS:

"CLASS B SYSTEM HYDRO TEST INCL.
SHEET 1 & 2"

FOR ITEM NUMBER C07.021.009 CORRECT COMMENTS
AS FOLLOWS:

"CLASS B SYSTEM HYDRO TEST INCL.
SHEET 1, 2, 3, 4, 5 & 6"

DUKE POWER COMPANY
QUALITY ASSURANCE DEPARTMENT
OPERATIONS DIVISION

ISI PLAN ADDENDUM

Updated: ASH 3/13/89Verified: ASH 3/13/89Serial No. 20CN-0185Sheet 1 of 2Current Plan Revision 5Station OCONEEUnit 2Volume 3Section APPENDIX "A"Page N/A

Detailed Description of Proposed Change: _____

REPLACE SUPPLEMENTAL CL. 2 DWG. OFD-102A-2.2
WITH ATTACHMENT "A" (SHEETS 1, 2, 3, 4, 5 & 6)
(OUTAGES 10 & 13)

FOR ITEM NO. C07.021.009: REVISE COMMENTS
AS SHOWN ON SHEET 2. (OUTAGES 10 & 13).

Originated By

A. J. Hogge, Jr.

Date

3-13-89

Approved By

TE Tuck

Date

3/13/89

SERIAL NO: 2AN-0185

SHEET 2 of 2

[illegible]

DUKE POWER COMPANY
QUALITY ASSURANCE DEPARTMENT
OPERATIONS DIVISION

ISI PLAN ADDENDUM

Updated: 5/3/89 TLTVerified: TLT 5/8/89Serial No. EOCN-0188Sheet 1 of 2Current Plan Revision 5Station OCONEEUnit 2Volume 3Section APPENDIX APage N/A

Detailed Description of Proposed Change:

SCHEDULE ITEM NUMBERS BOS.050.014, BOS.050.014A
AND BOS.050.014B FOR OUTAGE 12 AS SHOWN ON
SHEET 2.

SCHEDULE ITEM NUMBER BO9.032.008 FOR OUTAGE
10 AS SHOWN ON SHEET 2.

Originated By TLTusberDate 4/30/89Approved By JR HuntDate 5/4/89

SERIAL NO. ZOCN-0188

SHEET 2 of 2

[illegible]

DUKE POWER COMPANY
QUALITY ASSURANCE DEPARTMENT
OPERATIONS DIVISION

ISI PLAN ADDENDUM

Updated: ASH 5/8/89Verified: ASH 5/8/89Serial No. 20CN-0190Sheet 1 of 1Current Plan Revision 5Station OCONEEUnit 2Volume 3Section APPENDIX APage N/A

Detailed Description of Proposed Change:

FOR ITEM NUMBER B15.070.000: ADD OUTAGE
SCHEDULES 7, 8, 9, 10, 11 & 12.FOR ITEM NUMBER B15.071.000: ADD OUTAGE
SCHEDULE 13.FOR ITEM NUMBER C07.040.000: CORRECT
COMMENTS TO READ:"PRESSURE RETAINING COMPONENTS COVERED IN
C07.020.000".ADD OUTAGE SCHEDULES 8, 9, 10, 11 & 12FOR ITEM NUMBER C07.041.000: ADD OUTAGE
SCHEDULE 13.Originated By A. J. Hodge, Jr.Date 5-3-89Approved By W. R. RineyDate 5-5-89

DUKE POWER COMPANY
QUALITY ASSURANCE DEPARTMENT
OPERATIONS DIVISION

ISI PLAN ADDENDUM

Updated: 7-15-88 AJHVerified: 7-15-88 AJHSerial No. 300N-014Sheet 1 of 3Current Plan Revision 5Station OCONEEUnit 3Volume 4Section APPENDIX "A"Page N/A

Detailed Description of Proposed Change:

CORRECT AND/OR ADD ITEM NUMBERS AS
SHOWN ON ATTACHED SHEETS.

Originated By

G. J. Hogg, Jr.

Date

7-11-88

Approved By

[Signature]

Date

7/17/88

SERIAL NO. 30CN-0143

SHEET 2 of 3

ITEM NUMBER	IDENTIFICATION NUMBER	DRAWING NUMBERS	LOCS	INSP REQD	PROC NO.	MATL TYPE	DIAM SIZE	TKNS	CALIB BLOCK	COMMENTS	OUT SCH
B15.011.001		OFD-100A-3.1			QCL-15 151-350						14
B15.021.001		OFD-100A-3.2			QCL-15 151-350						14
B15.031.001		OFD-100A-3.1			QCL-15 151-350						14
B15.031.002		OFD-100A-3.1			QCL-15 151-350						14
B15.041.001					QCL-15 151-350						14
B15.041.002					QCL-15 151-350						14
B15.051.001	3-OFD-100A-3.1	OFD-100A-3.1			QCL-15 151-350					CLASS A SYSTEM HYDRO TEST- INCLUDES DWG. NOS. 07422 BBA, 1B, 2, 3, 4	14
B15.051.002					QCL-15 151-350						14
B15.051.003					QCL-15 151-350						14
B15.051.001A	3-OFD-100A-3.2	OFD-100A-3.2	VTZ		QCL-15 151-350					CLASS A SYSTEM HYDRO TEST- INCLUDES DWG. NO. 0-2422 BB-4	14
B15.051.004					QCL-15 151-350						14
B15.051.005					QCL-15 151-350						14
B15.051.006					QCL-15 151-350						14
B15.051.007	3-OFD-110A-3.1	OFD-110A-3.1			QCL-15 151-350						14

SERIAL NO. 30CN-0143

SHEET 3 of 3

[illegible]

DUKE POWER COMPANY
QUALITY ASSURANCE DEPARTMENT
OPERATIONS DIVISION

ISI PLAN ADDENDUM

Updated: 7-20-88 ASHVerified: 7-20-88 ASHSerial No. 30CN-0144Sheet 1 of 5Current Plan Revision 5Station OCONEE Unit 3 Volume 4Section APPENDIX "A" Page N/A

Detailed Description of Proposed Change:

CORRECT AND/OR ADD ITEM NUMBERS AS SHOWN
ON ATTACHED SHEETS.Originated By O. J. Hogg. Jr.Date 7-11-88Approved By [Signature]Date 7/21/88

SERIAL NO. 3 OCN-0144

SHEET 2 of 5

ITEM NUMBER	IDENTIFICATION NUMBER	DRAWING NUMBERS	LOCS	INSP REQD	PROC NO.	MATL TYPE	DIAM SIZE	TKNS	CALIB BLOCK	COMMENTS	OUT SCH
Co7.040.000										PRESSURE RETAINING COMPONENTS COVERED IN Co7.020.000	
Co7.011.001					QCL-15 151-350						14
Co7.011.002					QCL-15 151-350						14
Co7.011.003					QCL-15 151-350						14
Co7.011.004					QCL-15 151-350						14
Co7.011.005					QCL-15 151-350						14
Co7.011.006					QCL-15 151-350						14
Co7.021.001	3-OFD-100A 3.1	OFD-100A 3.1			QCL-15 151-350						14
Co7.021.002					QCL-15 151-350						14
Co7.021.003					QCL-15 151-350						14
Co7.021.004					QCL-15 151-350						14
Co7.021.005					QCL-15 151-350						14
Co7.021.006					QCL-15 151-350						14
Co7.021.007					QCL-15 151-350						14

SERIAL NO. 30CN-0144

SHEET 3 of 5

ITEM NUMBER	IDENTIFICATION NUMBER	DRAWING NUMBERS	LOCS	INSP REQD	PROC NO.	MATL TYPE	DIAM SIZE	TKNS	CALIB BLOCK	COMMENTS	OUT SCH
Co7.021.008					QCL-15 151-350						14
Co7.021.009					QCL-15 151-350						14
Co7.021.010					QCL-15 151-350						14
Co7.021.011					QCL-15 151-350						14
Co7.021.012					QCL-15 151-350						14
Co7.021.013	3-OFD-106E-3.1	OFD-106E-3.1			QCL-15 151-350						14
Co7.021.014	3-OFD-107A-3.1	OFD-107A-3.1			QCL-15 151-350						14
Co7.021.015	3-OFD-107B-3.1	OFD-107B-3.1			QCL-15 151-350						14
Co7.021.016	3-OFD-107B-3.2	OFD-107B-3.2			QCL-15 151-350						14
Co7.021.017	3-OFD-110A-3.1	OFD-110A-3.1			QCL-15 151-350						14
Co7.021.018	3-OFD-110A-3.3	OFD-110A-3.3			QCL-15 151-350						14
Co7.021.019	3-OFD-116A-3.1	OFD-116A-3.1			QCL-15 151-350						14
Co7.021.020	3-OFD-116C-3.1	OFD-116C-3.1			QCL-15 151-350						14
Co7.021.021					QCL-15 151-350						14

SERIAL NO. 30CN-0144SHEET 4 of 5

ITEM NUMBER	IDENTIFICATION NUMBER	DRAWING NUMBERS	LOCS	INSP REQD	PROC NO.	MATL TYPE	DIAM SIZE	TKNS	CALIB BLOCK	COMMENTS	OUT SCH
Co7.021.022					QCL-15						14
					151-350						
Co7.021.023					QCL-15						14
					151-350						
Co7.021.024					QCL-15						14
					151-350						
Co7.021.025					QCL-15						14
					151-350						
Co7.021.026					QCL-15						14
					151-350						
Co7.021.027					QCL-15						14
					151-350						
Co7.021.028					QCL-15						14
					151-350						
Co7.021.029	3-OFD-122B-3.1	OFD-127B-3.1			QCL-15						14
					151-350						
Co7.021.030	3-OFD-124B-3.2	OFD-124B-3.2			QCL-15						14
					151-350						
Co7.021.031	3-OFD-124B-3.4	OFD-124B-3.4			QCL-15						14
					151-350						
Co7.021.032	3-OFD-127B-3.2	OFD-127B-3.2			QCL-15						14
					151-350						
Co7.021.033	3-OFD-137A-3.2	OFD-137A-3.2		VT2	QCL-15					CL.B SYSTEM HYDRO TEST	14
					151-350						
Co7.021.034	3-OFD-137B-1.2	OFD-137B-1.2		VT2	QCL-15					CL.B SYSTEM HYDRO TEST	14
					151-350						
Co7.021.035	3-OFD-144A-3.2	OFD-144A-3.2		VT2	QCL-15					CL.B SYSTEM HYDRO TEST	14
					151-350						

SERIAL NO. 30CN-0144

 SHEET 5 of 5

ITEM NUMBER	IDENTIFICATION NUMBER	DRAWING NUMBERS	LOCS	INSP REQD	PROC NO.	MATL TYPE	DIAM SIZE	TKNS	CALIB BLOCK	COMMENTS	OUT SCH
C07.021.036	3-OFD-144A-3.3	OFD-144A-3.3		VT2	QCL15 151-350					CL. B SYSTEM HYDRO TEST	14
C07.021.037	3-OFD-100A-3.2	OFD-100A-3.2		VT2	QCL15 151-350					CL. B SYSTEM HYDRO TEST	14
C07.021.037A	3-OFD-100A-3.2	OFD-100A-3.2		VT2	QCL15 151-350					CL. B SYSTEM PNEUMATIC TEST	14
C07.021.038	3-OFD-107A-3.2	OFD-107A-3.2		VT2	QCL15 151-350					CL. B SYSTEM HYDRO TEST	14
C07.031.001					QCL15 151-350					LPI PUMP 3A HYDRO TEST	14
C07.031.002					QCL15 151-350					LPI PUMP 3B HYDRO TEST	14
C07.031.003					QCL15 151-350					LPI PUMP 3C HYDRO TEST	14
C07.031.004					QCL15 151-350					HPI PUMP 3A HYDRO TEST	14
C07.031.005					QCL15 151-350					HPI PUMP 3B HYDRO TEST	14
C07.031.006					QCL15 151-350					HPI PUMP 3C HYDRO TEST	14
C07.031.007					QCL15 151-350					REACTOR BLDG. SPRAY PUMP 3A HYDRO TEST	14
C07.031.008					QCL15 151-350					REACTOR BLDG. SPRAY PUMP 3B HYDRO TEST	14
C07.031.009					QCL15 151-350					SSF RC MAKEUP PUMP SSF-3-1 HYDRO TEST	14
C07.021.039	3-OFD-110A-3.4	OFD-110A-3.4			QCL15 151-350					CL. B SYSTEM HYDRO TEST	14

DUKE POWER COMPANY
QUALITY ASSURANCE DEPARTMENT
OPERATIONS DIVISION

ISI PLAN ADDENDUM

Updated: 7-20-88 ASHSerial No. 30CN-0145Verified: 7-20-88 ASHSheet 1 of 3Current Plan Revision 5Station OCONEEUnit 3Volume 4Section APPENDIX "A"Page N/A

Detailed Description of Proposed Change: _____

CORRECT AND/OR ADD ITEM NUMBERS AS SHOWN
ON ATTACHED SHEETS.Originated By A.J. Hogge, Jr.Date 7-11-88Approved By [Signature]Date 7/21/88

SERIAL NO. 30CN-0145SHEET 2 of 3

ITEM NUMBER	IDENTIFICATION NUMBER	DRAWING NUMBERS	LOCS	INSP REQD	PROC NO.	MATL TYPE	DIAM SIZE	TKNS	CALIB BLOCK	COMMENTS	OUT SCH
001.012.002					QCL-15						14
					151350						
001.012.003	3-0FD-101A-3.2	0FD-101A-3.2		VT2	QCL-15					CL 3 SYSTEM HYDRO TEST	14
					151350						
001.012.004	3-0FD-101A-3.3	0FD-101A-3.3			QCL-15						14
					151350						
001.012.005	3-0FD-101A-3.4				QCL-15						14
					151350						
001.012.006					QCL-15						14
					151350						
001.012.007					QCL-15						14
					151350						
001.012.008					QCL-15						14
					151350						
001.012.014	3-0FD-100A-3.3	0FD-100A-3.3		VT2	QCL-15					CL 3 SYSTEM HYDRO TEST	14
					151350						
001.012.015	3-0FD-102A-3.2	0FD-102A-3.2		VT2	QCL-15					CL 3 SYSTEM HYDRO TEST	14
					151350						
001.012.016	3-0FD-110A-3.1	0FD-110A-3.1		VT2	QCL-15					CL 3 SYSTEM HYDRO TEST	14
					151350						
001.012.017	3-0FD-144A-3.2	0FD-144A-3.2		VT2	QCL-15					CL 3 SYSTEM HYDRO TEST	14
					151350						
^{AKW 7-11-88} 001.012.019	3-0FD-127A-3.2	0FD-127A-3.2		VT2	QCL-15					CL 3 SYSTEM HYDRO TEST	14
					151350						
^{AKW 7-11-88} 001.012.020	3-0FD-100A-3.2	0FD-100A-3.2		VT2	QCL-15					CL 3 SYSTEM HYDRO TEST	14
					151350						
001.012.021	3-0FD-107A-3.1	0FD-107A-3.1		VT2	QCL-15					CL 3 SYSTEM HYDRO TEST	14
					151350						

SERIAL NO. 30CN-0145

SHEET 3 of 3

[illegible]

DUKE POWER COMPANY
QUALITY ASSURANCE DEPARTMENT
OPERATIONS DIVISION

ISI PLAN ADDENDUM

Updated: 7-15-88 ASHVerified: 7-15-88 ASHSerial No. 30CN-0146Sheet 1 of 3Current Plan Revision 5Station OCONEEUnit 3Volume 4Section APPENDIX "A"Page N/A

Detailed Description of Proposed Change:

CORRECT AND/OR ADD ITEM NUMBERS AS SHOWN
ON ATTACHED SHEETS.Originated By Q. J. Hogg Jr.Date 7-11-88Approved By [Signature]Date 7/18/88

SERIAL NO. 30CN-0146

SHEET 2 of 3

ITEM NUMBER	IDENTIFICATION NUMBER	DRAWING NUMBERS	LOCS	INSP REQD	PROC NO.	MATL TYPE	DIAM SIZE	TKNS	CALIB BLOCK	COMMENTS	OUT SCH
D02.012.001A	3-OFD-110A-3.3	OFD-110A-3.3		VT2	QCL-15 151-350					CL 3 SYSTEM HYDRO TEST	14
D02.012.002	3-OFD-116B-3.1	OFD-116B-3.1			QCL-15 151-350						14
D02.012.003					QCL-15 151-350						14
D02.012.004					QCL-15 151-350						14
D02.012.005					QCL-15 151-350						14
D02.012.006					QCL-15 151-350						14
D02.012.007	3-OFD-121D-3.1	OFD-121D-3.1			QCL-15 151-350						14
D02.012.008					QCL-15 151-350						14
D02.012.009					QCL-15 151-350						14
D02.012.016					QCL-15 151-350						14
D02.012.017					QCL-15 151-350						14
D02.012.019	3-OFD-133A-3.4	OFD-133A-3.4			QCL-15 151-350						14
D02.012.020	3-OFD-133A-3.3	OFD-133A-3.3		VT2	QCL-15 151-350					CL 3 SYSTEM HYDRO TEST	14
D02.012	3-OFD-124A-1.1	OFD-124A-1.1		VT2	QCL-15 151-350					CL 3 SYSTEM HYDRO TEST	14

SERIAL NO. 3 OCN-0146

SHEET 3 of 3

[illegible]

DUKE POWER COMPANY
QUALITY ASSURANCE DEPARTMENT
OPERATIONS DIVISION

ISI PLAN ADDENDUM

RECORD UPDATED
TUT 3-22-88
Proffed 3/28/88

Serial No. 300N-0147

Sheet 1 of 3

Current Plan Revision 5

Station OCONEE UNIT-3

Volume 4

Section APPENDIX-A

Page NA

Detailed Description of Proposed Change: _____

- DELETE ITEM NUMBER B06.180.005 FROM OUTAGE # 13 AND
RESCHEDULE FOR OUTAGE # 10.
- DELETE ITEM NUMBERS B06.190.002 & B06.190.003 FROM
OUTAGE # 10 AND RESCHEDULE FOR OUTAGE # 11.
- DELETE ITEM NUMBER B06.200.006 FROM OUTAGE # 13 AND
RESCHEDULE FOR OUTAGE # 10.
- DELETE ITEM NUMBERS B09.011.028 & B09.012.001
FROM OUTAGE # 10.
- DELETE THE FOLLOWING ITEM NUMBERS FROM OUTAGE # 14
AND RESCHEDULE FOR OUTAGE # 10: B09.021.046, B09.021.047,
B09.021.048, B09.021.049, B09.021.050, B09.021.051, & B09.021.052
- SCHEDULE ITEM NUMBER B13.030.001 AS SHOWN
ON SHEET 3 FOR OUTAGE # 13.
- DELETE ITEM NUMBER C01.010.005 FROM OUTAGE # 10

Originated By TL Tuck

Date 3/21/88

Approved By U. Bejen

Date 3/22/88

DUKE POWER COMPANY
QUALITY ASSURANCE DEPARTMENT
OPERATIONS DIVISION

ISI PLAN ADDENDUM

Serial No. 30CN-0147

Sheet 2 of 3

Current Plan Revision 5

Station OCONEE UNIT #3

Volume 4

Section APPENDIX - A

Page NA

Detailed Description of Proposed Change: _____

- SCHEDULE THE FOLLOWING ITEM NUMBER FOUND IN OUTAGE #8
FOR ADDITIONAL EXAMINATION OUTAGE # 11: CO2.010.003
- SCHEDULE ITEM NUMBERS CO2.021.001 & CO2.021.001A
FOR OUTAGE # 12 AS SHOWN ON SHEET #3.
- DELETE ITEM NUMBERS CO2.021.003 & CO2.021.003A
FROM OUTAGE #12.
- SCHEDULE ITEM NUMBER CO2.022.001 FOR OUTAGE #12
AS SHOWN ON SHEET #3.
- DELETE ITEM NUMBER CO2.022.003 FROM OUTAGE #12.

Originated By _____

Date _____

Approved By _____

Date _____

SERIAL NO. 30CN-0147

SHEET 3 of 3

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DUKE POWER COMPANY
QUALITY ASSURANCE DEPARTMENT
OPERATIONS DIVISION

ISI PLAN ADDENDUM

Updated: AJH 3-15-89Serial No. 30CN-0189Verified: AJH 3-15-89Sheet 1 of 2Current Plan Revision 5Station OCONEEUnit 3Volume 4Section APPENDIX "A"Page N/A

Detailed Description of Proposed Change:

FOR ITEM NUMBERS C07.031.004, C07.031.005 &
C07.031.006 : DELETE OUTAGE 11.REPLACE SUPPLEMENTAL CL. 2 DWG OFD-102A-3.2
WITH ATTACHMENT "A" (SHEETS 1, 2, 3, 4, 5 & 6)
(OUTAGES 11 & 14)REPLACE SUPPLEMENTAL CL. 3 DWG OFD-144A-3.2
WITH ATTACHMENT "B". (SHEETS 1 & 2)
(OUTAGES 11 & 14)FOR ITEM NUMBERS C07.021.008 & D01.012.017:
REVISE COMMENTS AS SHOWN ON SHEET 2.Originated By A. J. Hogge, Jr.Date 3-15-89Approved By J. R. HuntDate 3-17-89

SERIAL NO. 30CN-0189

SHEET 2 of 2

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DUKE POWER COMPANY
QUALITY ASSURANCE DEPARTMENT
OPERATIONS DIVISION

ISI PLAN ADDENDUM

Updated: TLT 5/1/89Serial No. 30CN-0191Verified: TLT 5/8/89Sheet 1 of 2Current Plan Revision 5Station OCONEEUnit 3Volume 4Section APPENDIX APage 29

Detailed Description of Proposed Change: _____

ADD COMMENTS AS SHOWN ON SHEET 2 FOR THE
FOLLOWING OUTAGE 12 ITEM NUMBERS :

COS.011.019 , COS.011.020 AND COS.011.021

Originated By TLTucker
Approved By WR HuntDate 4/30/89Date 5/4/89

SERIAL NO. 30CN-0191

SHEET 2 of 2

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DUKE POWER COMPANY
QUALITY ASSURANCE DEPARTMENT
OPERATIONS DIVISION

ISI PLAN ADDENDUM

Updated: AKH 5/8/89
Verified: AKH 5/8/89Serial No. 30CN-0192Sheet 1 of 3Current Plan Revision 5Station OCONEEUnit 3Volume 4Section APPENDIX APage N/A

Detailed Description of Proposed Change:

ADD INFORMATION TO ISI PLAN AS SHOWN ON
SHEETS 2 & 3.Originated By A. J. Hogge, Jr.Date 5-3-89Approved By JPR HuntDate 5-5-89

SERIAL NO. 30CN-0192

SHEET 2 of 3

ITEM NUMBER	IDENTIFICATION NUMBER	DRAWING NUMBERS	LOCS	INSP REQD	PROC NO.	MATL TYPE	DIAM SIZE	TKNS	CALIB BLOCK	COMMENTS	OUT SCH
B15.011.001	3RRV-Hydro			VT 2						REACTOR VESSEL	
B15.021.001	3PR-Hydro			VT 2						SYSTEM HYDRO PRESSURIZER	
B15.031.001	354A-Hydro			VT 2						SYSTEM HYDRO SYSTEM GEN. A	
B15.031.002	354B-Hydro			VT 2						SYSTEM HYDRO STEAM GEN. B	
B15.041.001	3LDC3A-Hydro	OFD-101A-3.1		VT 2						SYSTEM HYDRO LETDOWN COOLER 3A	
B15.041.002	3LDC3B-Hydro	OFD-101A-3.1		VT 2						SYSTEM HYDRO TEST LETDOWN COOLER 3B	
B15.051.001				VT 2						SYSTEM HYDRO TEST	
B15.051.002	3-OFD-101A-3.1	OFD-101A-3.1		VT 2						CLASS A SYSTEM HYDRO TEST	
B15.051.003	3-OFD-101A-3.4	OFD-101A-3.4		VT 2						CLASS A SYSTEM HYDRO TEST	
B15.051.004	3-OFD-102A-3.1	OFD-102A-3.1		VT 2						CLASS A SYSTEM HYDRO TEST	
B15.051.005	3-OFD-102A-3.2	OFD-102A-3.2		VT 2						CLASS A SYSTEM HYDRO TEST	
B15.051.006	3-OFD-102A-3.3	OFD-102A-3.3		VT 2						CLASS A SYSTEM HYDRO TEST	
B15.051.007				VT 2						CLASS A SYSTEM HYDRO TEST	

SERIAL NO. 3 OCN-0192

SHEET 3 of 3

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DUKE POWER COMPANY
QUALITY ASSURANCE DEPARTMENT
OPERATIONS DIVISION

ISI PLAN ADDENDUM

Updated: AW 5/8/89Verified: AW 5/8/89Serial No. 30CN-0193Sheet 1 of 5Current Plan Revision 5Station OCONEEUnit 3Volume 4Section APPENDIX APage N/A

Detailed Description of Proposed Change: _____

ADD INFORMATION TO ISI PLAN AS SHOWN ON
SHEETS 2, 3, 4 & 5.

Originated By G. J. Hogge, Jr.Date 5-3-89Approved By SPK [Signature]Date 5-5-89

SERIAL NO. 30CN-0193

SHEET 2 of 5

ITEM NUMBER	IDENTIFICATION NUMBER	DRAWING NUMBERS	LOCS	INSP REQD	PROC NO.	MATL TYPE	DIAM SIZE	TKNS	CALIB BLOCK	COMMENTS	OUT SCH
C07.011.001	3543A	DFD-121B-3.3		VT 2						STEAM GENERATOR 3A SYSTEM HYDRO TEST	
C07.011.002	3543B	DFD-121B-3.3		VT 2						STEAM GENERATOR 3B SYSTEM HYDRO TEST	
C07.011.003	3CFT3A	DFD-102A-3.3		VT 2						CORE FLOOD TANK 3A SYSTEM HYDRO TEST	
C07.011.004	3CFT3B	DFD-102A-3.3		VT 2						CORE FLOOD TANK 3B SYSTEM HYDRO TEST	
C07.011.005	3LPCA	DFD-102A-3.2		VT 2						LOW PRESSURE COOLER A SYSTEM HYDRO TEST	
C07.011.006	3LPCB	DFD-102A-3.2		VT 2						LOW PRESSURE COOLER B SYSTEM HYDRO TEST	
C07.021.001				VT 2						CL.B SYSTEM HYDRO TEST	
C07.021.002	3-DFD-101A-3.1	DFD-101A-3.1		VT 2						CL.B SYSTEM HYDRO TEST	
C07.021.003	3-DFD-101A-3.2	DFD-101A-3.2		VT 2						CL.B SYSTEM HYDRO TEST	
C07.021.004	3-DFD-101A-3.3	DFD-101A-3.3		VT 2						CL.B SYSTEM HYDRO TEST	
C07.021.005	3-DFD-101A-3.4	DFD-101A-3.4		VT 2						CL.B SYSTEM HYDRO TEST	
C07.021.006	3-DFD-101A-3.5	DFD-101A-3.5		VT 2						CL.B SYSTEM HYDRO TEST	
C07.021.007	3-DFD-102A-3.1	DFD-102A-3.1		VT 2						CL.B SYSTEM HYDRO TEST	
C07.021.008	3-DFD-102A-3.2	DFD-102A-3.2		VT 2							

SERIAL NO. 30CN-0193SHEET 3 of 5

ITEM NUMBER	IDENTIFICATION NUMBER	DRAWING NUMBERS	LOCS	INSP REQD	PROC NO.	MATL TYPE	DIAM SIZE	TKNS	CALIB BLOCK	COMMENTS	OUT SCH
C07.021.009	3-DFB-102A-3.3	DFB-102A-3.3		VT 2						CL.B SYSTEM HYDRO TEST	
C07.021.010	3-DFB-103A-3.1	DFB-103A-3.1		VT 2						CL.B SYSTEM HYDRO TEST	
C07.021.011	3-DFB-104A-3.1	DFB-104A-3.1		VT 2						CL.B SYSTEM HYDRO TEST	
C07.021.012	3-DFB-104A-3.2	DFB-104A-3.2		VT 2						CL.B SYSTEM HYDRO TEST	
C07.021.013				VT 2						CL.B SYSTEM HYDRO TEST	
C07.021.014				VT 2						CL.B SYSTEM HYDRO TEST	
C07.021.015				VT 2						CL.B SYSTEM HYDRO TEST	
C07.021.017				VT 2						CL.B SYSTEM HYDRO TEST	
C07.021.018				VT 2						CL.B SYSTEM HYDRO TEST	
C07.021.019				VT 2						CL.B SYSTEM HYDRO TEST	
C07.021.020				VT 2						CL.B SYSTEM PNEUMATIC TEST	
C07.021.021	3-DFB-121B-3.3	DFB-121B-3.3		VT 2						CL.B SYSTEM HYDRO TEST	
C07.021.022	3-DFB-121B-3.5	DFB-121B-3.5		VT 2						CL.B SYSTEM HYDRO TEST	
C07.021.023	3-DFB-121B-3.1	DFB-121B-3.1		VT 2						CL.B SYSTEM HYDRO TEST	

SERIAL NO. 3 OCN-0193

SHEET 4 of 5

ITEM NUMBER	IDENTIFICATION NUMBER	DRAWING NUMBERS	LOCS	INSP REQD	PROC NO.	MATL TYPE	DIAM SIZE	TKNS	CALIB BLOCK	COMMENTS	OUT SCH
C07.021.024	3-OFD-121B-1.2	OFD-121B-1.2		VT 2						CL. B SYSTEM HYDRO TEST	
C07.021.025	3-OFD-122A-3.1	OFD-122A-3.1		VT 2						CL. B SYSTEM HYDRO TEST	
C07.021.026	3-OFD-122A-3.2	OFD-122A-3.2		VT 2						CL. B SYSTEM HYDRO TEST	
C07.021.027	3-OFD-122A-3.3	OFD-122A-3.3		VT 2						CL. B SYSTEM HYDRO TEST	
C07.021.028	3-OFD-122A-3.4	OFD-122A-3.4		VT 2						CL. B SYSTEM HYDRO TEST	
C07.021.029				VT 2						CL. B SYSTEM HYDRO TEST	
C07.021.030				VT 2						CL. B SYSTEM HYDRO TEST	
C07.021.031				VT 2						CL. B SYSTEM HYDRO TEST	
C07.021.032				VT 2						CL. B SYSTEM HYDRO TEST	
C07.031.001	3LPI Pump-3A	OFD-102A-3.2		VT 2							
C07.031.002	3LPI Pump-3B	OFD-102A-3.2		VT 2							
C07.031.003	3LPI Pump-3C	OFD-102A-3.2		VT 2							
C07.031.004	3HPI Pump-3A	OFD-101A-3.3		VT 2							
C07.031.005	3HPI Pump-3B	OFD-101A-3.3		VT 2							

SERIAL NO. 30CN-0193

SHEET 5 of 5

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DUKE POWER COMPANY
QUALITY ASSURANCE DEPARTMENT
OPERATIONS DIVISION

ISI PLAN ADDENDUM

Updated: Aug 5/8/89Verified: Aug 5/8/89Serial No. 30CN-0194Sheet 1 of 3Current Plan Revision 5Station OCONEEUnit 3Volume 4Section APPENDIX APage N/A

Detailed Description of Proposed Change:

ADD INFORMATION TO ISI PLAN AS SHOWN ON
SHEETS 2 & 3.

Originated By

A. J. Higge. Jr.

Date

5-3-89

Approved By

J. R. Hunt

Date

5-5-89

SERIAL NO. 30CN-0194SHEET 2 of 3

ITEM NUMBER	IDENTIFICATION NUMBER	DRAWING NUMBERS	LOCS	INSP REQD	PROC NO.	MATL TYPE	DIAM SIZE	TKNS	CALIB BLOCK	COMMENTS	OUT SCH
001.012.002	3-OFD-101A-3.1	OFD-101A-3.1		VT 2						CL. 3 SYSTEM HYDRO TEST	
001.012.004				VT 2						CL. 3 SYSTEM HYDRO TEST	
001.012.005		OFD-101A-3.4		VT 2						CL. 3 SYSTEM HYDRO TEST	
001.012.006	3-OFD-101A-3.5	OFD-101A-3.5		VT 2						CL. 3 SYSTEM HYDRO TEST	
001.012.007	3-OFD-106A-3.2	OFD-106A-3.2		VT 2						CL. 3 SYSTEM HYDRO TEST	
001.012.008	3-OFD-109A-3.1	OFD-109A-3.1		VT 2						CL. 3 SYSTEM HYDRO TEST	
002.012.003	3-OFD-121A-3.7	OFD-121A-3.7		VT 2						CL. 3 SYSTEM HYDRO TEST	
002.012.004	3-OFD-121A-3.8	OFD-121A-3.8		VT 2						CL. 3 SYSTEM HYDRO TEST	
002.012.005	3-OFD-121B-3.3	OFD-121B-3.3		VT 2						CL. 3 SYSTEM HYDRO TEST	
002.012.006	3-OFD-121B-3.5	OFD-121B-3.5		VT 2						CL. 3 SYSTEM HYDRO TEST	
002.012.007				VT 2						CL. 3 SYSTEM HYDRO TEST	
002.012.008	3-OFD-121B-1.2	OFD-121B-1.2		VT 2						CL. 3 SYSTEM HYDRO TEST	
002.012.009	3-OFD-122A-3.4	OFD-122A-3.4		VT 2						CL. 3 SYSTEM HYDRO TEST	
002.012.002				VT 2						CL. 3 SYSTEM HYDRO TEST	

SERIAL NO. 30CN-0194

SHEET 3 of 3

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DUKE POWER COMPANY

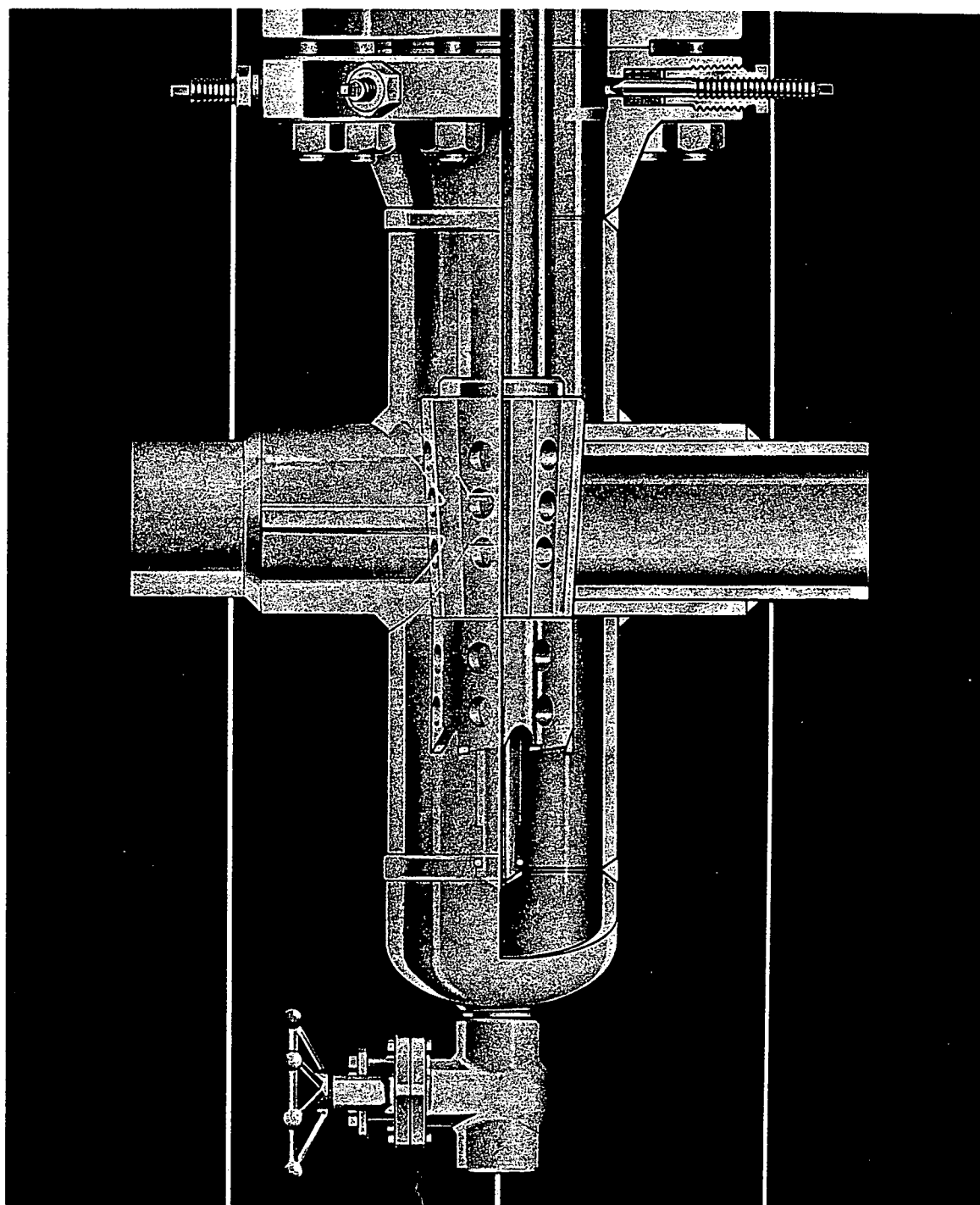
OCONEE NUCLEAR STATION

ATTACHMENT 3

OCONEE FLOW DIAGRAMS



MARBO, INC.



Hot Taps - Line Stops - Hi-Stops

When you need a safe, dependable, cost-effective way to isolate a system for an add-on, by-pass, tie-in or repair, turn to Marbo, Inc., the world leader and authority on high temperature, high pressure hot taps and line stops (plug offs).

More than two decades of experience has earned Marbo engineers and technicians — along with patented Marbo equipment and repair techniques — the reputation of being the finest available for solving high temperature, high pressure hot tap and line stop (or plug off) problems onstream.

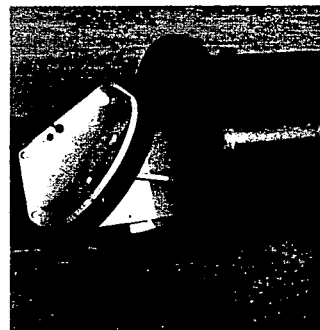
Whether it's an emergency or planned project, Marbo can turnkey the entire operation for you. Marbo engineers and manufacturing capabilities are available around the clock, and provide fast, efficient, dependable service.

Recently, Marbo completed another engineering first by performing the highest pressured line stop ever — called a Marbo Hi-Stop — on a six-inch boiler feedwater line with pressure at 1,720 psi. The job was completed in 15 days — including the design and manufacture of special equipment for the project — and saved the chemical plant millions of dollars in downtime. Marbo has several other unduplicated engineering credits that were performed for companies needing fast, accurate solutions to difficult onstream problems.



Marbo, a TEAM, Inc., company, specializes in all of the following low, medium, and high temperature, high pressure onstream services:

- Hi-Stops
- Hot Taps
- Line Stops
- Hot Stops
- Freeze Stops
- Concrete Hot Taps
- Concrete Stops
- Orifice Flange Taps
- Flow meter installations
- Probe Installations
- Cold cutting operations where welding is prohibited
- Custom and standard weldable hot tap and line stop fittings
- Custom and standard bolt on and weldable hot-tap and line stop fittings



Marbo engineers construct a test fitting to duplicate exact configuration of difficult line stop. An East Coast utility needed a line stop to replace a butterfly valve on a 30-inch cooling water line. The line was located in a constricted area with numerous elbows, and little room for a straight run of pipe for performing the line stop. Marbo engineers calculated the 30-inch line stop could be completed through the side of a 30-inch, 90° elbow. The elbow was joined by a 19¼" straight run of pipe into the side of a 30" - 45° elbow. To crosscheck their calculations, Marbo engineers constructed the test fitting (above) to duplicate the exact configuration of the constricted area where the linestop would be made. A hot tap was made on the test fitting utilizing Marbo's patented equipment to test-plug the line where the linestop head entered into the 30-inch 45° elbow. Based on the test results, Marbo modified the line stop head. Equipment was transported to the job site and the line stop was completed successfully.

The Marbo Hot Tap

When you need to make a cost-effective, safe, and controlled - condition entry into a pipe or vessel operating at a pressure or vacuum — without losing product or interrupting system operations — the Marbo Hot Tap is the best way to do it.

Marbo's hot taps have been used extensively and successfully world-wide for making branch connections into operating heat exchangers, vessels, columns, tanks, and pipelines.

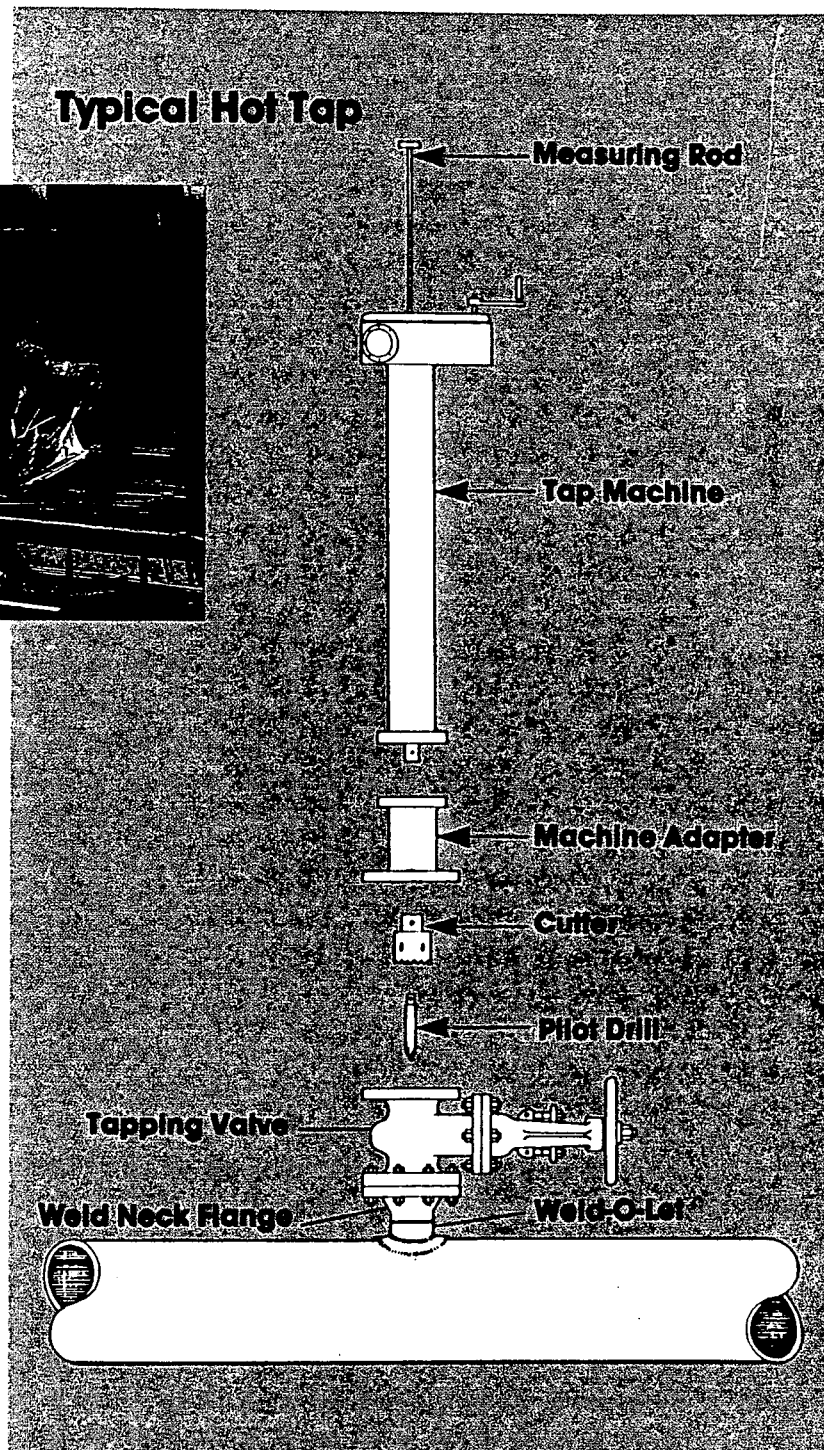


Marbo's hot taps allow drilling and cutting into pressurized operations or lines. They can be performed on lines from ½" to 42" in diameter, in temperatures from cryogenic to 1,200°F, and on pressures from vacuum to 3,000 psi.

Tapping operations by experienced Marbo engineers and technicians begin only after detailed coordination and planning have been completed with your engineers. Marbo hot tap applications include the following:

- New construction tie-ins
- Installation of by-pass systems
- Pressure and vacuum gauge installation
- New pipeline construction
- Sight glass installations
- Quality control sample points
- Valve installations
- Thermowell coupling installation
- Orifice taps for flow meters
- Offshore and underwater service

Typical Hot Tap



The Marbo Line Stop

Marbo line stops (or plug offs) for low, medium, or high pressured piping systems are done after a hot tap has been completed. Marbo also performs line stops on vacuum piping systems.

The stopping involves the use of Marbo's custom-designed tee (or split tee), the cutting of a hole in the pipeline, and the inserting of a process compatible plug to block and stop product flow.

Marbo's line stop plug provides a better, safer, seal on all types of pipe. After plugging, the valve is removed by installing a completion plug in the Marbo SealTite™ fitting. Unlike other seals that depend on an o-ring alone, the Seal Tite has a metal-to-metal seat backed up by a high temperature o-ring. If reentry into the pipe is ever required, a safe reentry and reseal can be made through the same closure flange.

Marbo's line stops can be applied to pipes ½" to 36" in diameter, and enable pipelines and plant piping systems to be isolated for repairs or additions without causing an interruption in service or loss of products.

Marbo's line stop services are used extensively by petrochemical plants, hydrocarbon refineries, municipal water districts, hospitals, steel mills, nuclear power plants, and pipeline operating companies.

Operating pressures for Marbo line stops include the following ranges:

- | | |
|-------------------|----------|
| • 4" through 12" | 1000 psi |
| • 14" through 20" | 750 psi |
| • 12" through 24" | 625 psi |
| • 26" through 36" | 500 psi |

Marbo's most requested line stop services include the following:

- Piping systems from ½" to 36" in diameter
- Pressured piping systems to 1,000 psi
- Piping systems with temperatures from -25°F to 1,200°F
- Piping systems of carbon steel, stainless alloys, cast iron, concrete and plastic
- Piping systems containing steam, water, hydrocarbons, chemicals and gases

Marbo line stop applications include the following:

- Valve replacement
- Pipe replacement
- Pipe repairs
- Repair pressure letdown stations
- Valve repairs
- Decommissioning pipes
- Isolate pressure vessels

Marbo line stops are easily applied to the following pipe materials:

- Carbon steel
- Alloy steel
- Stainless steel
- Cast Iron
- Concrete lined pipe
- Concrete



1. The Seal-Tite Fitting is welded to the pipe, pressure tested and the valve installed.



2. A Hot Tap is made on the pipe. The coupon is held in the cutter by U-wires on the pilot drill.



3. The Line Stop Head seals and isolates a section of the pipe. The sealing elements is selected for compatibility with the process.



4. The Seal-Tite Completion Plug is set and locked in place with jackscrews. This permits removal of the valve.

The Marbo Hi-Stop

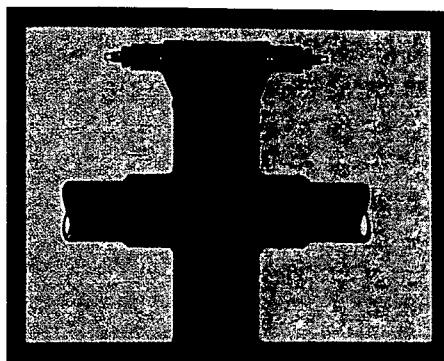
Marbo's high temperature, high pressure line stops — Hi-Stops — are used primarily to solve maintenance and engineering problems where operating conditions exceed conventional line stop ranges.

Marbo Hi-Stops (sometimes called plug offs) can be used to plug pipes from ½" to 14" in size, with temperatures to 750° and pressures to 750 psi. Pressures as high as 1,720 psi and temperatures as high as 1,200°F have been plugged by Marbo.

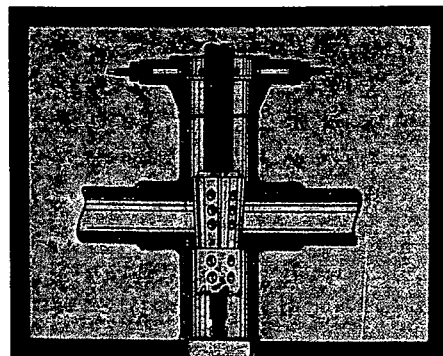
In December 1987, Marbo completed the highest pressured line stop ever performed. The world record Hi-Stop was completed for a Gulf Coast chemical plant in just 15 days — which included the design and manufacture of special equipment for the Hi-Stop — and was performed on a six-inch boiler feedwater line with pressures exceeding 1,720 psi. The Hi-Stop saved the plant millions of dollars in downtime.

Marbo's advanced Hi-Stop methods utilize only patented Marbo techniques, and equipment such as the metal-to-metal seal between the plug and the line.

Basic engineering techniques applied to the Marbo Hi-Stop includes a precision cutting and reaming operation to make a tapered hole through the pipe. The pipe is then plugged with a precision-ground, tapered steel plug that provides the seal to the pipe. This permits the depressuring of the system for the necessary maintenance or pro-



1. The Hi-Stop Fitting is welded to the pipe, pressure tested and the valve installed.



2. The Hi-Stop Cutter/Reamer cuts a tapered hole through the pipe. U-wires on the pilot drill hold the coupons inside the cutter.

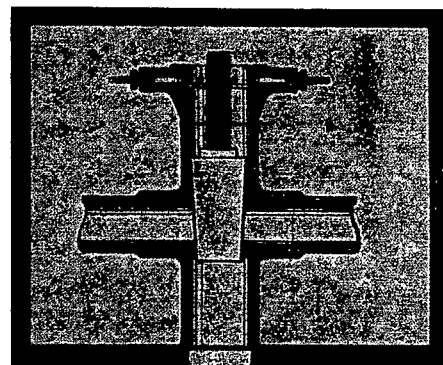
ject work. A completion plug with metal-to-metal seal is installed in the flange, thus allowing removal of the service valve and completion of the job.

Marbo Hi-Stop applications include the following:

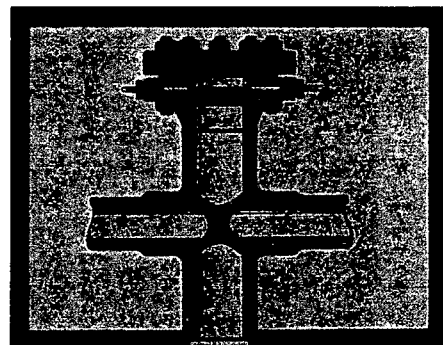
- Valve replacement
- Pipe replacement
- Pipe repairs
- Valve repairs
- Decommissioning pipes
- Isolate pressure vessels
- Repair pressure letdown stations

Marbo Hi-Stops can be applied to the following pipe materials:

- Carbon steel
- Alloy steel
- Stainless steel
- Cast iron
- Concrete lined pipe
- Concrete

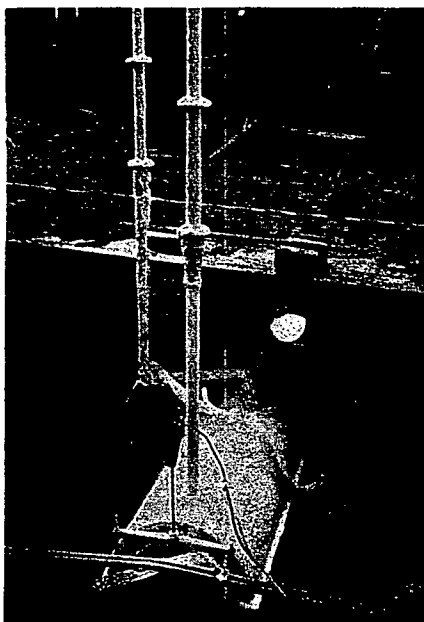


3. The steel Hi-Stop Plug provides a high temperature and high pressure metal-to-metal seal and isolates the section of line.



4. The Seal-Tite Completion Plug has a metal-to-metal seal with an O-ring back-up, permitting operation at high pressures and high temperatures.

The Marbo Freeze Stop



A Freeze Stop in progress

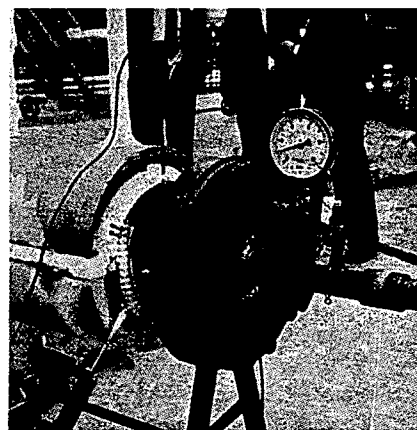


Valve Installation in a 6" water-filled ethylene gas line using the Freeze Stop. Pipe contains dirty water and 9.6% foreign solution.

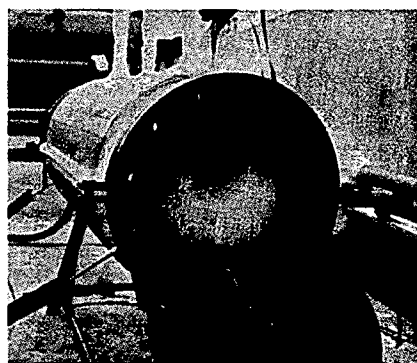
Extend or repair branch lines without taking your main line out of service

Why use the Freeze Stop?

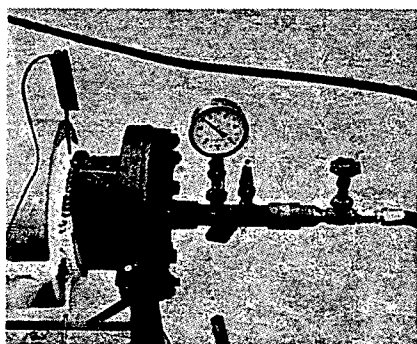
- It's clean, quick, simple, and economical.
- It requires no permanent modification to your piping system.
- It requires no mechanical work or welding to the piping system.
- Branch connections can be easily shut off without putting the main line out of service.
- There is no risk of dripping liquid during welding operations once the piece behind the plug is dried.
- Only a very small amount of liquid need be collected when a pipe is opened after it's plugged cryogenically.
- Only a small amount of expensive liquids are lost (thus saving you money) when cryogenic plugs are used to isolate piping systems.



Operational pressure

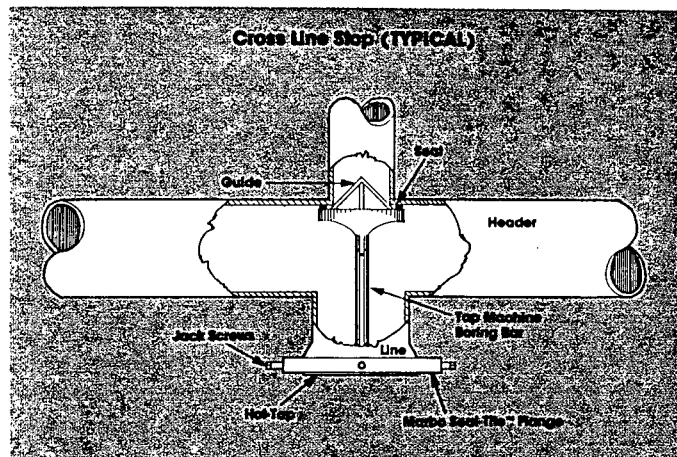


Cryogenic solidification plug



Test pressure

The Marbo Cross Line Stop



Where clearance is a problem for a conventional line stop, some applications can be performed using the Marbo cross line stop (plug).

Marbo solves the clearance problem by hot tapping from the back side of the line and plugging the branch from inside with a cross-line plug.

The procedure involves the use of a cross header plug to stop a branch outlet from the inner diameter of the header.

Marbo's process compatible plug is capable of withstanding high temperatures.

The Marbo Probe Installation

Marbo's Thermolet is a simplified device developed by Marbo engineers specifically for the installation of thermowells, annubars, and similar instruments onto a pipe or vessel while at operating temperature and pressure.

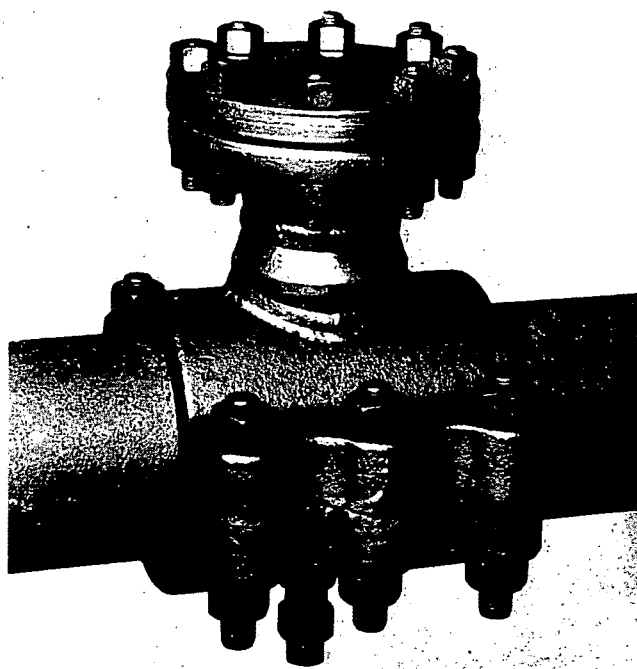
The use of the Thermolet simplifies and speeds up welding and hot tapping operations, thus saving time and money.

Because of the Thermolet's design, no special alignment procedures are required when it's welded onto the line or vessel.

Once in place, a valve is screwed onto the Thermolet and a hole is tapped by Marbo into the vessel or line.

Specialized Marbo equipment is used in the tapping and Thermowell setting operation.

The same techniques can be used to install coupon holders, hydrogen probes, electronic probes, and product injectors.



Marbo's weldable and bolt-on hot-tap and line stop fittings are available for immediate shipment. Whether it's for a petrochemical plant, hydrocarbon refinery, or pipeline application, Marbo offers both standard and custom-manufactured weldable or bolt-on hot tap and line stop fittings. Marbo fittings are manufactured to standard industry specifications from a wide range of materials to fit 1/2" to 36" pipe. Marbo's custom-manufactured fittings can meet virtually any high or low temperature ranges as well as corrosive environments.

TEAM Inc., a publicly traded company on the American Stock Exchange, serves the refining, petroleum, paper, chemical, utility, nuclear, steel, food, automotive, rubber, pipeline, brewing, off-shore, and construction industries.

TEAM's Energy Conservation Services (ECS) division is a worldwide group of companies that save customers an estimated three billion BTUs daily. **Energy Conservation Services** offers industry the only complete plant-wide energy conservation survey available. **Energy Conservation Services** not only responds to plant leaks emergencies 24 hours a day, but pinpoints energy losses for plants, recommends repair and maintenance tailored to each plant's system, and identifies energy savings paybacks for plant management.

Within the **Energy Conservation Services** division are six companies that specialize in specific types of surveys, repair, and maintenance. These include **Leak Repairs Inc.**, a worldwide, on-call, full-service company specializing in air-steam-water-process, on-site, on-stream, plant leaks as well as concrete leakage repair, onsite and in-place transformer leak repairs, onsite bushing repairs, and onsite electrical porcelain repairs; **Marbo**, a company specializing in hot-tapping, hi-stops, and line stopping, including off-center hot-taps and simultaneous multiple hi-stops, and cryogenic line plugging; **Steam Trap Services**, a company specializing in steam trap surveys, repair, and maintenance; **Pipe Repairs Inc.**, a company specializing in pipe repair, including underwater pipe repair, and a manufacturer of a complete line of high quality, stock clamps and self-sealing enclosures designed for quick, economical use by plant personnel, plus custom-designed clamps and enclosures for special applications. **Emissions Control Services**, a company specializing in emissions control monitoring and program regulation requirements for all industries, and **Thermco industrial blanket** applications that includes removable, reusable, insulation blankets that reduce heat loss and energy costs, and suppress noise levels commonly associated with piping systems.

TEAM, Inc. has repaired more than 300 different types of process leaks, plus leaks on-site, on-stream in temperatures ranging from cryogenic to 1700°F, and in pressures from vacuum to 6000 psig. The corporation maintains a year-round research and development program and staff, an engineering and manufacturing service division and staff to insure standards compliance with industry accepted codes, and a manufacturing facility for custom design fabrication of special clamps and enclosures. Additionally, **TEAM Inc.** has an outstanding safety record, and is known industry-wide for its safety standards.

Contact your nearest **TEAM Inc.** company the next time you need fast, efficient, expert, on-site, on-line leak repair services or surveys at your plant, regardless of the type, size, or location.



MARBO, INC.

Home Office:
P.O. Box 1482
Alvin, Texas 77512
713-331-6476
ITT4938640

For fast, safe, efficient, on-site, on stream Energy Conservation Services at your plant, contact your nearest TEAM representative

UNITED STATES

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Concord (San Francisco area) 415-676-0390

Florida

Clearwater (Tampa area) 813-461-5458
Pensacola 904-434-7732

Georgia

Baxley 912-285-1664

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Alsip (Chicago area) 312-597-5200

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Sweden 0660-16167

[illegible]

CASE OF FAILURE

19A External in valve

WORK REQUEST NO.

38922 B

ACTION TAKEN

Had opn. identify valve. Had H.P. check valve was reading 20 P. removed bonnet nut. stem is missing from valve. replaced stem per David Croyal. 7 system

EQ.

ACTUAL

DATE

3-22-86

Installed Bonnet Assembly, adjusted travel stop. Removed Bonnet & installed Diaphragm. Reinstalled Bonnet assembly. AND TIGHTENED NUTS DOWN. Cycled valve to insure operability. Removed tags

D. Haining

5/16 3-26-86

1. IF POSSIBLE

2. IF NOT POSSIBLE, ADDITIONAL EXIST IS NOT DOCUMENTED IN PROCEDURE.

TOTAL ACTUAL MAN HOURS

22

PERFORMED BY	CODE	TASK	INDIVIDUAL JOB EXPOSURE	W O C O D E	STATUS	CAUSE OF FAILURE	EFFECT OF FAILURE	ACTION TAKEN
D. Haining								
D. Haining	MS	S			1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	A	D	A
D. Haining	MS	S			BC	AV		AV
D. Haining	MS	S						

RADIATION WORK PERMIT NO. 945

REVIEWED BY

QA DEPARTMENT
OPERATIONS, DIVISION
DATE 4/14/86
REPRESENTATIVE

INSPECTOR

NOTIFIED BY

DATE

TIME

4EB

DATE

DATE

PROCEDURE NUMBER

BY GROUP

DATE

DATE

Hand cycled valve. 1/16

Hand cycled valve. 1/16

DATE

104108185

W.E. Mathers

1331 515.5 031215.6

DATE

DATE

DATE

DATE

104108185

ENCLOSURE 13.2
Pressure Test Data Sheet

Oconee Nuclear Station Unit 1 System No: 56 System Name Spent Fuel
ASME Class of System 3
ISI Item Number NA/85 ISI ID Number NA/85
ISI Piping Class NA/85 Duke Piping Class C
Addendas (if applicable) ASME SECT XI IWA 5211(a)
Test Description System Junct Seal
Test Boundaries Visual inspection will be performed on 15F-45 for leaks

Test Requirements

Test Pressure: System is at nominal operating/in-service pressure as defined in Section 6.4 (B)
Test Press. of Buried Components:
a) Acceptable rate of pressure loss NA/85 or
b) Acceptable change in flow NA/85
Minimum Holding Time at Test Pressure 10 mins.
Applicable Code: ASME Section XI 1980 Ed. thru Winter 1980 Addenda
Information Source for Test Requirements: Duke Power OPS, ASME Section XI
Article IWA-5000
Prior Review by ANI/ANII R.F. Elgin/W.R. Grant Date: 9-22-87

Test Conditions

Pressure Gauge Ser./Ident. NA/85 Cal Date: NA/85
Temperature Gauge Ser./Ident. No. NA/85 Cal. Date: NA/85
Pressure Gauge is in current calibration in accordance with NPD Cal. Program.
Verified by I&E Rep. NA/85 Date NA/85
Temperature Gauge is in current calibration in accordance with NPD/QA Cal. Programs.
I&E Rep. NA/85 or QA Rep. _____ Date _____
Insulated _____ Uninsulated ☒ Buried _____
Test Temperature NA/85
Test Pressure:
Test Start 10.83 PSIG Time 1030 Date 9/22/87
Operations Rep. Donna Dumas Date 9/22/87
Examination Start Time 1040 Date 9/22/87
Examination End Time 1040 Date 9/22/87
Test Finish 10.83 PSIG Time 1040 Date 9/22/87
Operations Rep. Bobby Adams Date 9-22-87

NOTE: Test Inspector shall wait the minimum holding time specified after test start prior to beginning the Examination.

Buried Components:

- a) Rate of pressure loss NA/85 or
b) Change in flow NA/85

Optical Aids: NONE

Leaks: NONE

Remarks: Pressure is determined by calculating at Head of water 25 x 4.33 = 10.83 PSIG Head Pressure was Calculated by depth of water in Canal to point 15F-45

Test Inspectors: B&WQC PS Elmer Level II Date 9-22-87

Proc. No. QCL-15 Rev. No. 4

Test Results Accepted:

Test Coord. James S. Cobb Date 9/22/87
QA Tech. Sup. Review W. R. Grant Date 9-22-87
ANI/ANII Witness/Review R. F. Elgin Date 9-22-87

ON 1		EDMW A 329		B-0TSG		I. D. TAG PLACED		YGO	
QTA	UNIT	QTD	QPT. TYPE	LOOP OR COG. U	AUX. COOP. U	BLD.	ELDV.	LOCATION	
DESCRIPTION OF WORK REQUESTED <u>Please investigate and repair IFDW-329 Valve has a seat leak. Repair Needed for Completion of Performance Leak Rate Testing.</u>									
FAILURE DESCRIPTION <u>A+B BIK CIE DUE D2G</u>									
DUKE CLASS <u>F</u>									
1st CLASS <u>B</u>									
IF LEADER APPLICABLE SEC.		REQ'D YES NO		DETERMINED BY		MP0A/1200/1 PROCEDURE NUMBER(S) <u>MP0A/1200/2</u>			
SAFETY RELATED / CONTROL DESIGNATED		1		J Copeland		MIP/12/1/1800/1 MIP/12/1/1200/79			
RETEST OR FUNCTIONAL VERIFICATION		M.P.G.A		H.C. Thompson		PT/12/1/150/136 W.O. # 34772 TYPE OF WORK			
RWP		✓		GCC		CHARGE TO ACCT. NO. <u>530.13</u> 61710			
CONFINED SPACE ENTRY PERMIT		✓		GCC		NO. _____ THRU _____ CLEARED _____			
RED TAG(S)		✓		GCC		NO. _____ THRU _____ CLEARED _____			
GC		✓		B9 Hunt		PRIOR TO JOB START _____ AFTER JOB _____			
CLEANLINESS_ZONE		II		GCC		PERSONNEL SAFETY REMINDER			
CLEARANCE TO BEGIN WORK ON EQUIP.		APPLICABLE YES NO		OPERATION REP. (SIGN OR CONTACT BY)		DATE		OPERATION CONTROL ACCEPTED	
✓				J. McCall		03/13/86		C. McCall 050686	
JOB. SEQ.		JOB SEQUENCE DESCRIPTION						SKILL	
		<u>COMPLETE/VERIFY ATTACHED LEAK TEST</u>							
		<u>Install + remove scaffold</u>						B 2X4 8	
		<u>Repair seat leak</u>						M 2X10 20	
PLANNER		GCC		CODE <u>P14</u>		DATE <u>31/4/86</u>		TOTAL EST. MAN HOURS <u>28</u>	
MATERIAL DESCRIPTION		SEQ. NO.		EST. QTY.		STATUS		LOCATION	
<u>See attached parts list</u>									
<u>BOUNNET GASKET 4"</u>		<u>244106155</u>		<u>EA</u>		<u>3-18-86</u>		<u>ISSUE</u>	
						<u>R-1</u>			
				<u>163455</u>					
MATERIALS TO BE PRESTAGED		YES <input type="checkbox"/> NO <input type="checkbox"/>		PRESTAGE LOCATION					
SPECIAL TOOLS OR EQUIPMENT REQUIRED									
		CORRECT COMPONENT IDENTIFIED BY <u>John Ray</u>						DATE <u>3-13-86</u>	
		CORRECT COMPONENT VERIFIED BY <u>Tom 1006</u>						DATE <u>3-13-86</u>	

EQUIPMENT HISTORY FILE

P4 PU

ACTION TAKEN	SEQ.	ACTUAL MHRS.	DATE
DISASSEMBLED THE VALVE. BROKE THE VALVE APART AT BONNETT. REMOVED AND CLEANED THE DISC, CLEANED THE SEAT RINGS. BLUE CHECKED THE DISC - BLEED 100 %.		M 2X10	3-13-86
Blue checked 1-FDW-329 FOR Q.A. Put NEW B/B Gasket on Tapped B/A Nuts Per Pinc. Repacked VALVE.		M 9X4	3-19-86
REPACKED 1-FDW-329 TO SATISFY PERFORMANCE TEST. PACKED WITH 11 PILES OF 187-I		M 2X8	3-21-86

LIST TEST EQUIPMENT SERIAL NO. AND TYPE ON ADDITIONAL SHEET IF NOT DOCUMENTED IN PROCEDURE.															TOTAL ACTUAL MAN HOURS									
PERFORMED BY	CODE	TASK	INDIVIDUAL JOB EXPOSURE	WR	STATUS	CAUSE OF FAILURE										EFFECT OF FAILURE		ACTION TAKEN						
John Ray																								
Tom Tate			60																					
Philip Brown																								
Otto Sanders			60															A.P.A.M.						

FROM SECTION II IF REQUIRED

RADIATION WORK PERMIT NO. **RWP-845**

DUKE POWER COMPANY

QA RECORDS APPROVED

FROM SECTION II IF REQUIRED	QA REPRESENTATIVE	INSPECTOR NOTIFIED	NOTIFIED BY	DATE	TIME	INSPECTED BY
PRIOR TO JOB START	<u>Donnie Spears</u>	<u>DONNIE CARPENTER</u>	<u>TONY TATE</u>	<u>3-13-86</u>	<u>1800</u>	<u>WCL</u>
AFTER JOB	<u>7-2-86</u>	<u>W.C. Paul</u>	<u>Otto Sanders</u>	<u>3-19-86</u>	<u>1500</u>	<u>WCL</u>

REMARKS: OK out 2.7.3.52 Dup 42185 Trough work

FROM SECTION II IF REQUIRED	DATE	PROCEDURE NUMBER	BY GROUP	SATISFACTORILY PERFORMED BY
Pressure Test per procedure 440.2.86 P.T. 1.1.50.36			Ref	Ref
VT-2 PER QA Test RFO Per VWA# 51255, James Scott 4/2/86				
METHOD: Cycle & VALVE Manually / Leak Tested				
RESULTS: Cycle & Valve Manually, VALVE Operated Properly				
VALVE works Properly				
Met Acceptance				
Supervisor: <u>Darryl L. Daniel</u>	<u>T31130</u>	<u>040886</u>		
<u>Ben Owens</u>	<u>CODE HR MN</u>	<u>DATE</u>		
		<u>0410286</u>		
			<u>APPROVED BY: [Signature]</u>	<u>0510786</u>
				<u>DATE</u>

LOG SHEET

[illegible]

[illegible]

[illegible]

INFORMATION ONLY

ENCLOSURE 13.2 PRESSURE TEST DATA SHEET

12/01/1720/16
Page 1 of 2

NOTE: Additional copies may be made as necessary.

6.2 Compared By: James Scott Date: 2/12/89

6.5 NR 0/Component: 17754C NR 0/Component: _____

NR 0/Component: _____ NR 0/Component: _____

NR 0/Component: _____ NR 0/Component: _____

6.6 Minimum Holding Time at Test Pressure: 10 minutes

6.7 Unit 0: 1 System No: 54.8 System Name: RPS

ISI Item 0: NO/PA ISI ID 0: NO/PA

ISI Piping Class: B Duke Piping Class: B

Addendas (if applicable): Page SECT II Para 52.11 (B)

Test Description: Supra. Check Port

Test Boundaries: Visual inspection will be performed on
18.14 for leaks

6.8 Acceptable Rate of Pressure Drop: NO/PA

Acceptable Flow Rate: NO/PA

6.9 QA Technical Support: T. Johnson Date: 2-10-89

6.11 NR 0: _____ Date: _____

6.13 Pressure Gauge Location: Small indicator in unit 1 Control room

Pressure Gauge Ser./Ident.: 11P15-0002 Cal. Date: 11/21/87

I&E Representative: Jim Cochran Date: 2/12/89

6.14 Temperature Gauge Location: NO/PA

Temperature Gauge Ser./Ident. No.: NO/PA Cal. Date: NO/PA

I&E Representative: NO/PA Date: NO/PA

6.15 Insulated: _____ Uninsulated: ☒ Buried: _____

11.2 Test Start Pressure: 21 Psia Time: 1030 Date: 2-10-89

Operations Representative: [Signature] Date: 2-10-89

ENCLOSURE 13.2
PRESSURE TEST DATA SHEET

NOTE: Additional copies may be made as necessary.

11.3 Rate of Pressure Drop: None

Flow Rate: None

11.4 Examination Start Time: 10:40 Date: 2/10/89

Examination End Time: 11:00 Date: 2/10/89

11.5 Test Finish Pressure: 21 Psig Date: 2/10/89

Operations Representative: [Signature] Date: 2-10-89

11.6 Optical Aids: FLOSHLIGHT

Leaks: None

Remarks: Pressure will be determined by Calculating at barrel
21 Psig @ 0.433 AMPS = 21 Psig

VT-2 Level: II Procedure 0: 04-5 Revision 0: 5

QC: JE [Signature] Date: 2-10-89

B&W/QC: _____ Date: _____

B&W/QC: _____ Date: _____

B&W/QC: _____ Date: _____

11.7 Evaluation: None

M.R.O.(s): None

Responsible Engineer: [Signature] Date: _____

11.8 Test Coordinator: [Signature] Date: 2/10/89

QA Tech. Support: [Signature] Date: 2-14-89

ANI/ANII Review: RT [Signature] 4/1/89 Date: 2-15-89