

17095

BD-8

BOOKETED
USTPRC
8

'95 SEP -8 P4:02

TO
John Lamberski

Post-It brand fax transmittal memo 7671		# of pages: 6
To: Melvin Gruffis	From: Ken Stokes	
Co.	Co.	
Dept.	Phone #	
Fax #	Fax #	

OFFICE OF SECRETARY
DOCKETING & SERVICE
BRANCH

Deficiency Card

023044

Completed By Initiator	Card #	1-91-303	Unit 1 <input type="checkbox"/> Unit 2 <input type="checkbox"/> Common <input type="checkbox"/>
	1: Description of Deficiency	Calcon Switch F-573-156 (1P5L4859A) required replacing due to it leaking control air.	
	MPL Tag Number	1P5L4859A	
	Location Of Deficiency?	Diesel Gen 1B	
	What is Affected By The Deficiency?	Diesel Gen 1B Maintenance Run	
	How Was The Deficiency Discovered?	During pressure testing	
Completed By USS Within 2 Hours	Event Time	0900	Date 10-1-91
	Discovered By?	J Tucker	Work # 19104783 Dept. 19C
	2: Shift Supervisor Review	JOHN BOWLES	
	Name Of USS Reported To?	1A-2-91	Time 0039 Date 10-2-91
	Plant Mode/Condition:	DEFUELED	
	Is Immediate Notification Required?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
	If Yes, <input type="checkbox"/> 1 hour <input type="checkbox"/> 2 hour <input type="checkbox"/> 24 Hour	N/A	
	Tech. Spec. Required Action Taken?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No N/A	
List Applicable Tech. Spec. Section(s)	NONE		
Summarize Compensatory Action Taken:	P5L-4859A replaced and calibrated PAC MWD 1-91-04783		
LCO Initiated:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
WRT Initiated:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Signature Of USS	MWD 1-91-04783 PERMANIS		
Date	10-2-91	Time 0043	

9509120245 950811
PDR ADOCK 05000424
PDR

NUCLEAR REGULATORY COMMISSION
 Docket No. 50-4214 425 CLA.3 EXHIBIT NO. II-8
 In the matter of La Tour/Vogel
 Staff Applicant Intervenor Other BOARD
 Identified Received Rejected Reporter ALW
 Date 8-11-95 Witness SHIPMAN

Completed in 1 Day	3: NSAC Evaluation/Review (Check Appropriate Box) Date Received: 10-2-91	
	A	No Deficiency Card Required. Send Copy To Responsible Dept., Close Original
	B	Reportable Deficiency Report #
	C	<input checked="" type="checkbox"/> Deficiency, Not Reportable.
Completed in 1 Month By Responsible Dept.	Explanation: <u>Emergency start capability is not affected by this condition and the DG would continue to perform its safety function. Therefore, operability is not affected and this condition is not reportable per 10 CFR 50.73.</u>	
	Responsible Dept.: <u>Eng. Support</u>	
	NSAC Reviewer: <u>Tom Webb</u> Date: <u>10-2-91</u> NSAC Supervisor: <u>[Signature]</u> Date: <u>10/2/91</u>	
	4: Responsible Dept. Review RCCA Required <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
	Explanation: <u>This is the first occurrence of this type of failure on the Galcon Pressure Sensor, however due to the nature of the failure a RCCA would be prudent.</u>	
	Disposition: <u>REWORK; Replaced 1956 4859A per mnc 19104783.</u>	
	<u>Tom Webb 11-1-91</u>	
	Cause Code(s): <u>F4</u> Event Code(s): <u>9d</u> Tech. Spt. Initials: <u>TEW</u>	
	Causing Dept(s): <u>None</u>	
	Department Manager: <u>[Signature]</u> Date: <u>11-1-91</u>	

UNIT 1 INVESTIGATION CATEGORY 3 SHEET 1 OF 2

11-1-91
XCS 2

- EVENT INVESTIGATED: Failure of low lube oil pressure sensor during DG-1B functional test following 5 year outage inspection. The sensor was found to be continuously venting during engine operation. DC 1-91-303 documented the failure.
- LEAD RESPONSIBLE DEPARTMENT OR EVENT REPORT NO.: Engineering Support
ADDITIONAL DEPARTMENT(S) PROVIDING INPUT: None
- SEQUENCE OF EVENTS (if not provided elsewhere): (1) "low oil press sensor malfunction" was announced during initial run of DG-1B, (2) system engineer found 1 PSI VACUUM venting, (3) MWO 1910478 was written to replace the sensor (4) MWO 1910512 was written for failure analysis.
- BROADNESS REVIEW: Based on a review of the DC database, NPMIS, NPREDS, LER files, and/or other applicable databases, 1) Identify any prior or similar occurrences, or 2) State if the event/problem is an isolated occurrence. Failures have previously occurred on calcon pressure sensors largely due to calibration deficiencies. This is the first fail. of this type.
- ROOT CAUSE ANALYSIS TECHNIQUE(S) USED: Causal Factor Worksheet
- CAUSE (Use continuation sheet for additional causes): Inexperienced vendor personnel was setting up and testing the "Bubble" leak test device. He connected to the low lube oil pressure line which is vented in steady condition. This allowed water to enter the pressure sensor. Thinking the quantity of water too small to create own problem, he reconnected the line

CAUSE CODE/EVENT CODE: F4 19d

7. RECOMMENDED CORRECTIVE ACTION(S) (Include actions to prevent recurrence):

SEE PAGE 2

Resp. Dept. Mgr. Approval: MAA DATE: SEE PAGE 2
Estimated Completion Date: _____ OIT Number: SEE PAGE 2

8. INVESTIGATOR SIGNATURE Kam Stokes DATE 11-1-91 LEAD RESP. MANAGER/EXTL DATE 11-1-91

9. OITs initiated; consultants reviewed; corrective action approved.

MANAGER TECHNICAL SUPPORT DATE

cc 11/5/91

FIGURE 2 (EXAMPLE)

CAUSAL FACTOR WORKSHEET

F. Work Practices - Method workers use to ensure safe and timely completion of task.

Applicable Not Applicable

1. Document That States the Work Practice

	I	II	III	IV
a. Administrative procedure				
b. Job procedure				
c. Other job documents				
d. Not commonly used				

2. Interval or Required Error Detection Method

	I	II	III	IV
a. Self-checking				<input checked="" type="checkbox"/>
b. Immediate check by second person				
c. Delayed check by second person				
d. Documented				
e. Direct				
f. Indirect				

Why were work practices a cause?

Rate (1, 2, 3) each contributing factor

1 = Primary
2 = Secondary
3 = Possible

- Error Detection Practices**

	I	II	III	IV
a. Self-checking not applied to ensure correct unit or flow				
b. System alignment, signal, restoration not verified				
c. General equipment condition (temperature, pressure, etc.) not checked before starting work				
d. Self-checking not applied to ensure correct component error in each action				<input checked="" type="checkbox"/>
e. Self-checking not applied to ensure intended action is correct before it is performed				
f. Self-checking not applied to ensure expected response				
g. Other interval or required verification not performed				
- Document Use Practices**

	I	II	III	IV
a. Required procedure drawings, etc. not used				
b. Documents not followed carefully				
c. Up-to-date documents not used				
- Equipment/Material Use Practices**

	I	II	III	IV
a. Used tools not designed for job				
b. Made unauthorized material substitution				
c. Improper use of protective environmental gear				
- Worker's Preparation Practices**

	I	II	III	IV
a. Not having needed materials, tools, or equipment at job site before starting job				
b. Not having proper information/instructions at job site before starting job				
- Other (specify)**

	I	II	III	IV
a. Other (specify)				

Recommended Corrective Actions:

This incident occurred while setting up and testing the "bubbler" leak detection device. Inexperienced vendor personnel connected to the lube oil pressure line by mistake causing water to enter the pressure sensor. The device should be equipped with a water trap or possibly use light oil as a medium. The vendor has been notified and is working on a solution.

FIGURE 8 - CAUSAL FACTOR WORKSHEETS (CONT'D) EXAMPLE

BD-9

PAGE 1

UNIT ONE B TRAIN

DOCKETED
USNRC

RCUR VOZ

"OF"

N

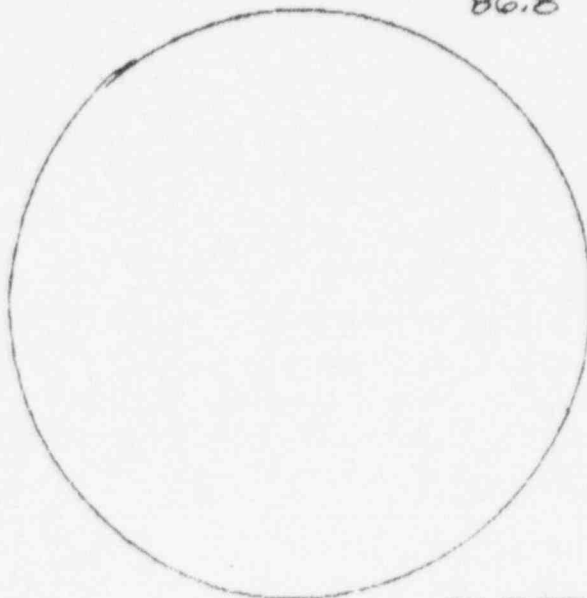
CONTACT AMB
86.8 87.0

95 SEP -8 P4:02

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BRANCH

CONTACT AMB
86.8 89.4

W



E

CONTACT AMB IEL
87.0 89.2

S

CONTACT AMB
87.8 89.6

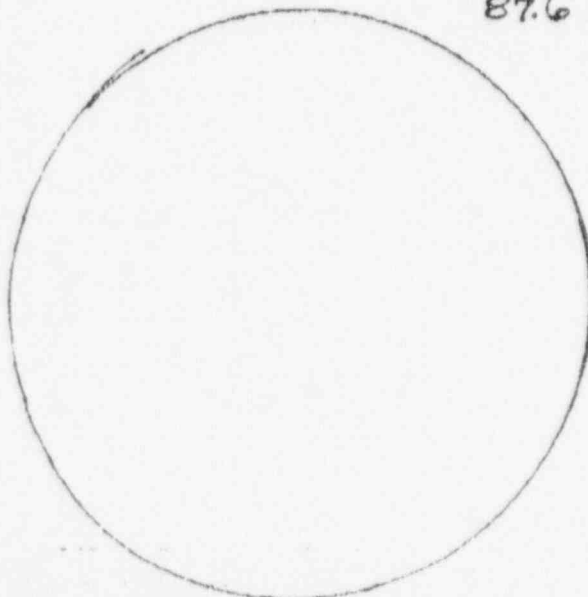
RCUR VOI

N

CONTACT AMB
87.6 90.0

CONTACT AMB
88.0 89.4

W



E

CONTACT AMB
87.4 89.2

S

CONTACT AMB
88.4 89.2

NUCLEAR REGULATORY COMMISSION BOARD

Docket No. 50-424425-02-3 EXHIBIT NO. II-9

In the matter of SA PENN / VEST

Staff Applicant Intervenor Other BOARD

Identified Received Rejected Reporter WLV

Date 8-24-95 Witness DA YOUNG / JOANSTON

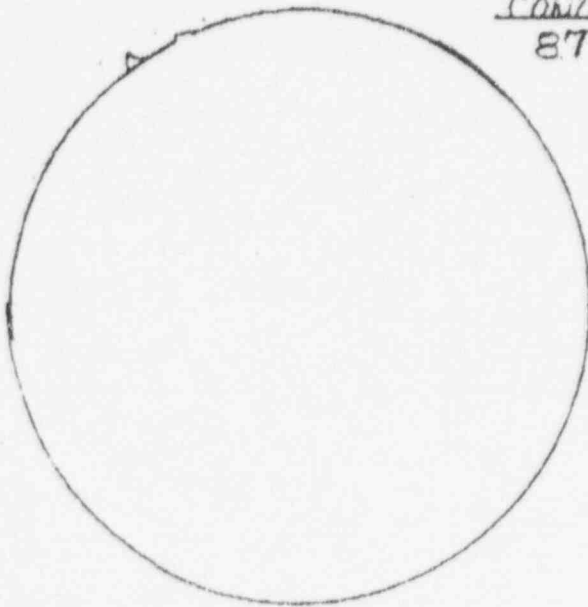
BOARD 9

UNIT ONE A TRAIN

°F

N RCVR VOZ

CONTACT AMBIENT
87.6 89.4



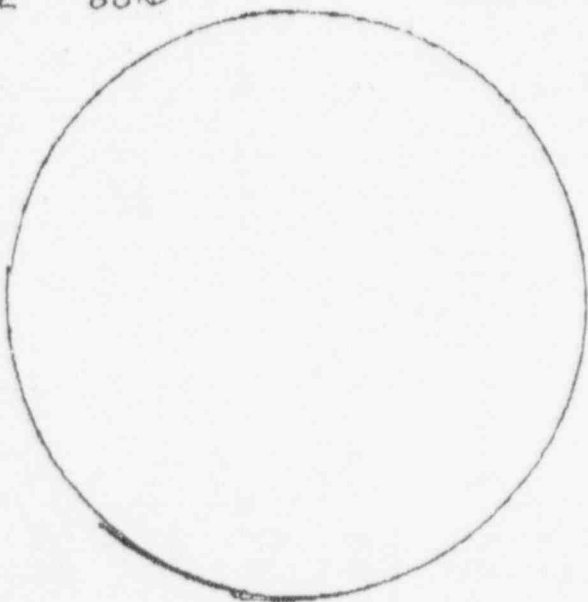
CONTACT AMBIENT
87.6 90.0 W

E CONTACT AMBIENT
88.8 90.8

S CONTACT AMBIENT
88.6 90.2

CONTACT AMB.
86.2 88.6

N RCVR VOI



CONTACT AMB.
86.2 89.0 W

E CONTACT AMB.
86.6 89.0

S CONTACT AMB.
86.8 89.2

OF

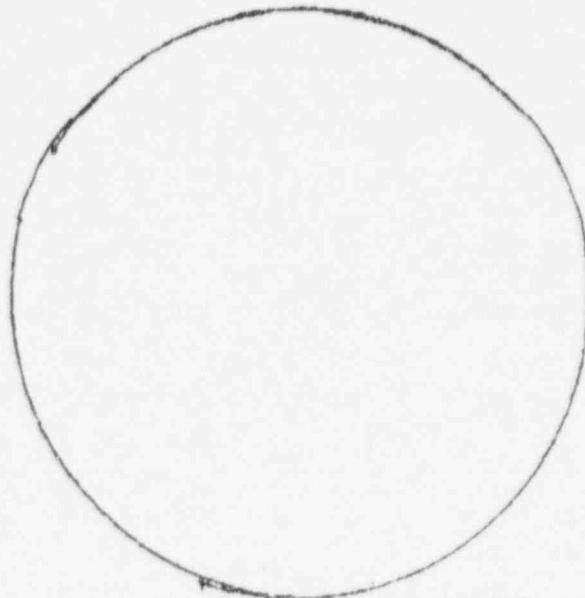
UNIT ONE A TRAIN

RCVR VOZ

READINGS TAKEN 5 MIN.
AFTER COMPRESSOR
SHUT OFF.

N

CONTACT AMBIENT
88.4 89.2



CONTACT AMB
88.4 89.4

W

CONTACT AMB.
E 89.0 89.8

S

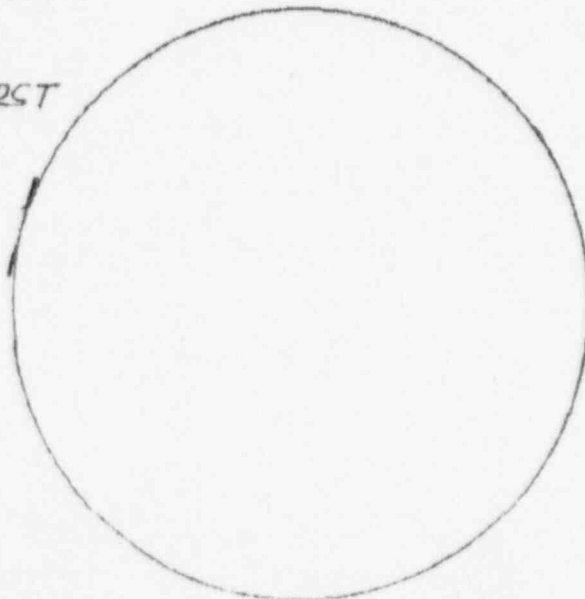
CONTACT AMB.
89.4 90.6

CONTACT AMB
89.0 89.8

N

RCVR VOZ

READINGS TAKEN
7 MIN. AFTER FIRST
READINGS.



W

CONTACT AMB.
90.0 90.6

E

CONTACT AMB.
88.6 89.4

S

CONTACT AMB.
90.0 90.2

USED DIGITAL TEMP. IND. VP-3117 CAL. DUE 1/5/96

17094

INDEX OF EXHIBITS
WORK ORDER - 290
IN THE MATTER OF:
GEORGIA POWER CO.: VOGTLE UNITS 1 & 2 '95 SEP -8 P4:02
DOCKET NO:
50-424/425-OLA-3

DOCKETED
USNRC

OFFICE OF SECRETARY
DOCKETING & SERVICE
BRANCH

AUGUST 8, 1995

<u>EXHIBIT NO.</u>	<u>DESCRIPTION</u>	<u>NO. OF PAGES</u>
STAFF II-20(A)	VOGTLE PROC. 6.4.1	6
GPC II-141	DC 1-90-0087	5
GPC II-142	DC 1-90-307	BOUND
INT II-176	MOSBAUGH COLLEGE TRANS	4
INT II-185	8-29-90 MEMO, AJLUNI	1

INDEX OF EXHIBITS
WORK ORDER - 290
IN THE MATTER OF:
GEORGIA POWER CO.: VOGTLE UNITS 1 & 2
DOCKET NO:
50-424/425-OLA-3

AUGUST 9, 1995

<u>EXHIBIT NO.</u>	<u>DESCRIPTION</u>	<u>NO. OF PAGES</u>
INT II-22(A)	4-9-90 TELE CONF	STIPULATED 05-17-95
INT II-25	TAPE 40 TRANS	RETAINED BY INTERVENOR
INT II-26	4-10-90 MEMO, MOSBAUGH	STIPULATED 05-17-95
INT II-82	BOCKHOLD, K	STIPULATED 05-17-95
INT II-104	6-20-90 GPC BD BRIEFING	2
INT II-170	TAPE 207, SIDE A	RETAINED BY INTERVENOR
INT II-171	TAPE 172, 6-19-90	REJECTED
INT II-174	COURSEY DEPOSITION	RETAINED BY INTERVENOR
INT II-175	KOCHERY DEPOSITION	9
INT II-177	PHONE LOG, 07-90	1
INT II-179	7-13-90 MEMO, MOSBAUGH	1
INT II-180	EXCERPT CASH INTERVIEW	1
INT II-181	EXCERPT BOCKHOLD INT.	5
INT II-182	EXCPT AUFDENKAMP INT.	3
INT II-183	EXCPT MOSBAUGH INT.	REJECTED
INT II-184	EXCPT 9-11-90 DEPO	WITHDRAWN
INT II-186	EXCPT SHIPMAN DEPO	2
INT II-190	EXCPT CASH INT.	4
INT II-191	WORK ORDER 4-3-90, EXCPT	2
INT II-192	NUREG 1410, J-14	1

INDEX OF EXHIBITS
WORK ORDER - 290
IN THE MATTER OF:
GEORGIA POWER CO.: VOGTLE UNITS 1 & 2
DOCKET NO:
50-424/425-OLA-3

AUGUST 9, 1995

<u>EXHIBIT NO.</u>	<u>DESCRIPTION</u>	<u>NO. OF PAGES</u>
INT II-195	FAX, 8-16-93 11:33am	RETAINED BY INTERVENOR
INT II-196	MWO 1-90-01576	RETAINED BY INTERVENOR
INT II-197	7-6-90 MEMO, BOCKHOLD	1
INT II-198	EXCERPTS OI EXHIBIT 31	9
INT II-199	DC 1-90-0055, 3-2-90	RETAINED BY INTERVENOR
INT II-200	2-15-90, TO B. LYONS	RETAINED BY INTERVENOR
INT II-201	3-16-90, TO B. LYONS	RETAINED BY INTERVENOR
INT II-202	6-1-90, TO B. LYONS	RETAINED BY INTERVENOR
INT II-203	EXCERPT 6-12-90 TAPE	5
INT II-205	6-20-90 PRB MEETING	2
INT II-206	MWO 1-90-01629	38
STAFF VERSION GPC II-116(A)		26

INDEX OF EXHIBITS
WORK ORDER - 290
IN THE MATTER OF:
GEORGIA POWER CO.: VOGTLE UNITS 1 & 2
DOCKET NO:
50-424/425-OLA-3

AUGUST 10, 1995

<u>EXHIBIT NO.</u>	<u>DESCRIPTION</u>	<u>NO. OF PAGES</u>
INT II-106	STAFF DISCOVERY RESP.	32
INT II-120	IDENTIFIED	07-17-95
INT II-170	7-17-90 TAPE EXCERPT	6
GPC II-143	6-14-93 CASH EXCERPT	3

INDEX OF EXHIBITS
WORK ORDER - 290
IN THE MATTER OF:
GEORGIA POWER CO.: VOGTLE UNITS 1 & 2
DOCKET NO:
50-424/425-OLA-3

AUGUST 11, 1995

<u>EXHIBIT NO.</u>	<u>DESCRIPTION</u>	<u>NO. OF PAGES</u>
GPC II-144	SHIPMAN A	BOUND
GPC II-145	SHIPMAN B	BOUND
GPC II-146	SHIPMAN C	BOUND
GPC II-147	SHIPMAN D	BOUND
BOARD 8	DEF. CARD 1-91-303	5
INT II-207	MWO 1-90-01789, 4-6-90	BOUND

INDEX OF EXHIBITS
WORK ORDER - 290
IN THE MATTER OF:
GEORGIA POWER CO.: VOGTLE UNITS 1 & 2
DOCKET NO:
50-424/425-OLA-3

AUGUST 14, 1995

<u>EXHIBIT NO.</u>	<u>DESCRIPTION</u>	<u>NO. OF PAGES</u>
INT II-73	4-1-91 PARTIAL RESP.	STIPULATED 05-17-95
INT II-74	10-3-91 McDONALD LTR	STIPULATED 05-17-95
INT II-208	9-17-90 McDONALD DEPO	BOUND
INT II-209	McDONALD INTERROG. EXPT	BOUND
INT II-210	OI REPORT EXB 48 PARTIAL	6
INT II-211	COURSEY DEPO EXCERPT	RETAINED BY INTERVENOR
INT II-212	REPORT OF ECKERT INT.	RETAINED BY INTERVENOR
GPC II-148	ECKERT EXHIBIT A	BOUND

INDEX OF EXHIBITS
WORK ORDER - 290
IN THE MATTER OF:
GEORGIA POWER CO.: VOGTLE UNITS 1 & 2
DOCKET NO:
50-424/425-OLA-3

AUGUST 15, 1995

<u>EXHIBIT NO.</u>	<u>DESCRIPTION</u>	<u>NO. OF PAGES</u>
GPC II-149	HANDFINGER EXHIBIT A	3
GPC II-150(A-E)	HANDFINGER B (MWOs)	184
INT II-79	IDENTIFIED/STIPULATED	05-17-95
INT II-213	DEMONSTRATIVE AID	RETAINED BY INTERVENOR
INT II-214	7-31-90 LETTER, ESQ	BOUND

INDEX OF EXHIBITS
WORK ORDER - 290
IN THE MATTER OF:
GEORGIA POWER CO.: VOGTLE UNITS 1 & 2
DOCKET NO:
50-424/425-OLA-3

AUGUST 16, 1995

<u>EXHIBIT NO.</u>	<u>DESCRIPTION</u>	<u>NO. OF PAGES</u>
GPC II-151	3-30-93 LETTER	BOUND

INDEX OF EXHIBITS
WORK ORDER - 290
IN THE MATTER OF:
GEORGIA POWER CO.: VOGTLE UNITS 1 & 2
DOCKET NO:
50-424/425-OLA-3

AUGUST 17, 1995

<u>EXHIBIT NO.</u>	<u>DESCRIPTION</u>	<u>NO. OF PAGES</u>
GPC II-152(A)	ATTENDANCE LIST	BOUND
GPC II-152(B)	SLIDES, SENATE SUBCOMM	BOUND
STAFF II-11	4-12-93 LTR TO VORSE	1
STAFF II-13	EXCERPT OI EXHIBIT 50	23

INDEX OF EXHIBITS
WORK ORDER - 290
IN THE MATTER OF:
GEORGIA POWER CO.: VOGTLE UNITS 1 & 2
DOCKET NO:
50-424/425-OLA-3

AUGUST 22, 1995

<u>EXHIBIT NO.</u>	<u>DESCRIPTION</u>	<u>NO. OF PAGES</u>
GPC II-153	BRINEY A	1
GPC II-154	BRINEY B	10
GPC II-155	BRINEY C	10
GPC II-156	BRINEY D	14
GPC II-157	BRINEY E	10
GPC II-158	BRINEY F	12
GPC II-159	BRINEY G	1
INT II-213A	CORRECTED DEMO. AID 14	RETAINED BY INTERVENOR
INT II-215	CERT OF TRACEABILITY	RETAINED BY INTERVENOR
INT II-216	MEMO 5-11-90, JOHNSTON	RETAINED BY INTERVENOR

INDEX OF EXHIBITS
WORK ORDER - 290
IN THE MATTER OF:
GEORGIA POWER CO.: VOGTLE UNITS 1 & 2
DOCKET NO:
50-424/425-OLA-3

AUGUST 23, 1995

<u>EXHIBIT NO.</u>	<u>DESCRIPTION</u>	<u>NO. OF PAGES</u>
GPC II-160	4 DCs & 2 CALIB. SHTS	10
GPC II-161	OWYOUNG/JOHNSTON A	BOUND
GPC II-162	" B	BOUND
GPC II-163	" C	BOUND
GPC II-164	" D	BOUND
GPC II-165	" E	BOUND
GPC II-166	" F	BOUND
INT II-218	5-11-90 JOHNSTON MEMO	RETAINED BY INTERVENOR
INT II-219	3-20-90 MEMORANDUM	RETAINED BY INTERVENOR
INT II-220	DG TRIP CONTROL SUMMARY	RETAINED BY INTERVENOR
INT II-221	MWO 1-90-01684	RETAINED BY INTERVENOR
INT II-222	COOPER OUTAGE LOGBOOK	RETAINED BY INTERVENOR
INT II-223	JOHNSTON PERSONAL LOG	RETAINED BY INTERVENOR
INT II-224	JOHNSTON OUTAGE EXPN RPT	RETAINED BY INTERVENOR
INT II-225	CORRES. RE 7/90 PRBLM	RETAINED BY INTERVENOR
INT II-226	JOHNSTON NOTES	RETAINED BY INTERVENOR
INT II-227	CORRES. RE PNEU. CNTRL	RETAINED BY INTERVENOR
INT II-228	TWO NEWSPAPERS	RETAINED BY INTERVENOR

INDEX OF EXHIBITS
WORK ORDER - 290
IN THE MATTER OF:
GEORGIA POWER CO.: VOGTLE UNITS 1 & 2
DOCKET NO:
50-424/425-OLA-3

AUGUST 24, 1995

<u>EXHIBIT NO.</u>	<u>DESCRIPTION</u>	<u>NO. OF PAGES</u>
GPC II-167	NUREG 14.10, APPENDIX J	19
INT II-226	JOHNSTON NOTES, 7/90	12
INT II-229	SIGNED COOPER REPORT	26
BOARD 9	MEASUREMENTS	3
STAFF II-68	GENERIC LETTER 88-14	4

INDEX OF EXHIBITS
WORK ORDER - 290
IN THE MATTER OF:
GEORGIA POWER CO.: VOGTLE UNITS 1 & 2
DOCKET NO:
50-424/425-OLA-3

AUGUST 25, 1995

<u>EXHIBIT NO.</u>	<u>DESCRIPTION</u>	<u>NO. OF PAGES</u>
INT II-217A	LOG PAGES 010828,29,51	3
GPC II-168	RER NO. 88-0707 PROCEDURE NO. 00400-C	10