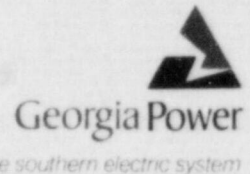


Georgia Power Company
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Atlanta, Georgia 30308
Telephone 404 526-6526

Mailing Address:
Post Office Box 4545
Atlanta, Georgia 30302

L. T. Gucwa
Manager Nuclear Safety
and Licensing



SL-2042
0110m

March 4, 1987

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

NRC DOCKETS 50-424, 50-425
OPERATING LICENSE NPF-61, CONSTRUCTION PERMIT CPPR-109
VOGTLE ELECTRIC GENERATING PLANT UNITS 1, 2
RESPONSE TO REQUEST FOR ADDITIONAL INFORMATION
RELATIVE TO NRC I&E BULLETIN 85-03

Gentlemen:

During a telephone conversation between Ms. M. A. Miller, the NRC NRR Vogtle Licensing Project Manager, and Georgia Power Company (GPC) personnel on February 4, 1987, it was requested that GPC provide additional information in response to NRC I&E Bulletin 85-03, "Motor-Operated Valve Common Mode Failures During Plant Transients Due To Improper Switch Settings," for Vogtle Units 1 and 2. Specifically, it was requested that GPC provide a clarification of system designators and copies of applicable drawings to assist in the NRC's review of our responses to the subject bulletin. Our response to the request for additional information is discussed herein and should be forwarded to the Director of Nuclear Reactor Regulation for action.

Georgia Power letter GN-905 dated May 13, 1986 (see Enclosure 1), indicated that GPC was developing a program to ensure that valve operator switches are selected, set, and maintained in accordance with the design basis for the operation of each valve. In addition, it was indicated that GPC had identified the motor-operated valves in the "high pressure coolant injection, core spray, and emergency feedwater systems" that are required to be tested for operational readiness in accordance with 10 CFR 50.55a(g). The phrase "high pressure coolant injection, core spray, and emergency feedwater systems" apparently has caused some confusion and should not have been used since these are common boiling water reactor (BWR) system designators rather than pressurized water reactor (PWR) system designators. The May 13, 1986 submittal should have indicated that the PWR-equivalent of those systems would be addressed in our subsequent response(s) to NRC I&E Bulletin 85-03. Page 1 of the attachment to GPC letter GN-1065 dated August 28, 1986 (see Enclosure 2), indicated that the PWR-equivalent of those BWR systems were being addressed in our response(s) to the Bulletin and specified the appropriate PWR systems. The systems at Vogtle Units 1 and 2 that are addressed in response to the Bulletin are the Safety Injection, Chemical and Volume Control, and Auxiliary Feedwater systems.

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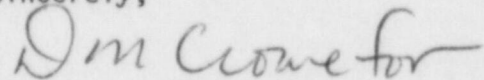
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U. S. Nuclear Regulatory Commission
March 4, 1987
Page Two

In addition to the above clarification, it was requested that six (6) copies of the piping and instrumentation drawings (P&IDs) for the affected systems at Vogtle Units 1 and 2 be provided to assist the NRC in the review of our responses to the Bulletin. Enclosed are six (6) copies of each P&ID for the affected systems from point-of-suction to point-of-injection. A list of the drawings is included as Enclosure 3.

Should you require any additional information in this regard, please contact this office at any time.

Sincerely,



L. T. Gucwa

JAE/lm

Enclosures

U. S. Nuclear Regulatory Commission
March 4, 1987
Page Three

c(w/o): Georgia Power Company

Mr. R. E. Conway
Mr. J. P. O'Reilly
Mr. G. Bockhold, Jr.
Mr. R. E. Folker
GO-NORMS

Southern Company Services

Mr. J. A. Bailey

Shaw, Pittman, Potts & Trowbridge

Mr. B. W. Churchill, Attorney-at-Law

Troutman, Sanders, Lockerman & Ashmore

Mr. J. E. Joiner, Attorney-at-Law

U. S. Nuclear Regulatory Commission

Dr. J. N. Grace, Regional Administrator
Mr. H. H. Livermore, Senior Resident Inspector-Construction, Vogtle
Ms. M. A. Miller, Licensing Project Manager, NRR
Mr. J. F. Rogge, Senior Resident Inspector-Operations, Vogtle

Georgians Against Nuclear Energy

Mr. D. Feig
Ms. C. Stangler

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6122B

ENCLOSURE 1
TO
GEORGIA POWER COMPANY
LETTER SL-2042

R. E. Conway
Senior Vice President

CORRECTED COPY

the southern electric system

May 13, 1986

United States Nuclear Regulatory Commission
Region II
Suite 2900
101 Marietta Street, Northwest
Atlanta, Georgia 30323

Reference:
RII: JNG:
50-424
50-425

File: X78C24
Log: GN-905

Attention: Mr. J. Nelson Grace

The following information is submitted in response to I&E Bulletin 85-03, "Motor-Operated Valve Common Mode Failures During Plant Transients Due To Improper Switch Settings:"

Georgia Power Company is currently developing a program to ensure that valve operator switches are selected, set, and maintained in accordance with the design basis for the operation of each valve. At this point, Georgia Power Company has identified the motor-operated valves in the high pressure coolant injection, core spray, and emergency feed-water systems that are required to be tested for operational readiness in accordance with 10 CFR 50.55a(g). The Vogtle Project architect-engineer, Bechtel Power Corporation, has been requested to provide the necessary design information to complete action item "a" of the bulletin. Upon receipt of this information, a schedule will be developed for implementation of action items "b" through "d" of the bulletin. Georgia Power Company expects to provide the USNRC with this schedule by September 12, 1986.

This response contains no proprietary information and may be placed in the NRC Public Document Room.

Yours truly,

R. E. Conway
R. E. Conway

REF/DOF/tdm

8608130077

2pp

MAY 28 1986

R. E. Conway states that he is the Senior Vice President, Project Director of the Vogtle Project and is authorized to execute this oath on behalf of Georgia Power Company and that to the best of his knowledge and belief the facts set forth in this letter are true.

GPC:

R. E. Conway

Sworn to and subscribed before me this 12th day of May, 1986.

Josephine B. Smith

My Commission expires 4/11/88

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

J. H. Miller
G. F. Head
J. T. Beckham
R. E. Conway
J. P. O'Reilly
R. H. Pinson
P. D. Rice
B. M. Guthrie
D. E. Dutton
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W. T. Nickerson
D. S. Read
Sr. Resident (NRC)
D. L. Kinnsch (BPC)
F. B. Marsh (BPC)
C. S. McCall (OPC)
D. A. Bartol (W)
J. E. Joiner
(Troutman, et. al.)
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RECEIVED
R. E. Conway
SEP 04 1986

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ENCLOSURE 2
TO
GEORGIA POWER COMPANY
LETTER SL-2042

NUCLEAR SAFETY AND LICENSING

August 28, 1986

United States Nuclear Regulatory Commission
Region II
Suite 2900
101 Marietta Street, Northwest
Atlanta, Georgia 30323

Reference:

RII: JNG:

50-424

50-425

File: X78C24

Log: GN-1065

Attention: Mr. J. Nelson Grace

The attached information is submitted further to our letter of May 13, 1986 (File: X78C24, Log: GN-905), and completes Georgia Power Company's initial response to I&E Bulletin 85-03, "Motor-Operated Valve Common Mode Failures During Plant Transients Due To Improper Switch Settings."

Georgia Power Company will submit a final response as required by the Bulletin within 60 days of completion of the valve operator switch verification program for each unit of the Vogtle Electric Generating Plant.

This response contains no proprietary information and may be placed in the NRC Public Document Room.

Yours truly,


R. E. Conway

REF/REC/tdm

Attachment

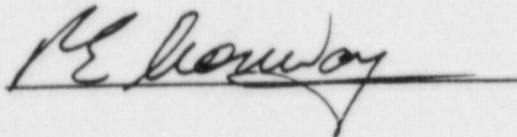
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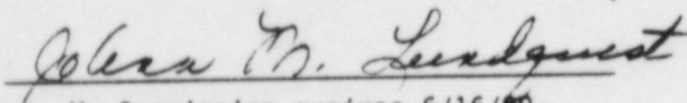
Page Two

R. E. Conway states that he is the Senior Vice President, Project Director of the Vogtle Project and is authorized to execute this oath on behalf of Georgia Power Company and that to the best of his knowledge and belief the facts set forth in this letter are true.

GPC:



Sworn to and subscribed before me this 28th of August, 1986.


My Commission expires 6/16/90

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

J. H. Miller
J. P. O'Reilly
G. F. Head
D. O. Foster
J. T. Beckham
R. H. Pinson
P. D. Rice
B. M. Guthrie
D. E. Dutton

R. A. Thomas
D. R. Altman
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C. W. Hayes
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Sr. Resident (NRC)
C. S. McCall (OPC)
J. E. Joiner (TSLA)
D. C. Teper (GANE)
NORMS

RESPONSE TO IEB 85-03

SUBJECT: USNRC IE Bulletin 85-03, "Motor-Operated Valve Common Mode Failures During Plant Transients Due To Improper Switch Settings"

REFERENCES: 1) GN-905 dated May 13, 1986
2) 10CFR50.55 a(g) "Inservice Inspection Requirements"

INTRODUCTION: The following information is provided in response to IEB 85-03 Action Item (e), parts 1 and 2, pursuant to the provisions and commitments of our letter dated May 13, 1986 for Vogtle Electric Generating Plant Units 1 and 2.

PURPOSE: The purpose of this response is to provide information relative to program development and implementation plans for Plant Vogtle commensurate with the requirements of IEB 85-03.

DISCUSSION: Past performance/industry related experience clearly reflect the need for enhanced maintenance and setpoint controls for motor-operated valves. Consistent with Plant Vogtle's evolving motor-operated valve reliability program, based on lessons learned and experience gained, programmatic aspects associated with setpoint requirements have been evaluated per IEB 85-03.

RESPONSE: IEB 85-03 directly targets motor-operated valves in high pressure coolant injection/core spray and emergency feedwater systems (RCIC for BWR's), which are required to be tested for operational readiness in accordance with 10CFR50.55 a(g). Corresponding motor-operated valve selections have been made as deemed appropriate consistent with the "Four Loop Westinghouse Pressurized Water Reactor Nuclear Steam Supply System" and associated design aspects for Plant Vogtle, with respect to the high pressure coolant systems identified in the bulletin. In accordance with 10CFR50.55 a(g) and consistent with IEB 85-03, valve selections specifically have been made on the basis of applicable "active" in-service test program motor-operated valves in appropriate portions of the Safety Injection, Chemical and Volume Control, and Auxiliary Feedwater Systems. Enhanced programmatic aspects associated with IEB 85-03 response requirements for these valves are represented per the following items:

- °Valve Design Information
- °Setpoint Requirements
- °Operability Testing
- °Procedures
- °Initial Response/Schedule
- °Test Reports

ITEM #1: VALVE DESIGN INFORMATION (Ref. IEB 85-03 Action Item "a")

Valve, valve operator, and maximum expected differential pressure information is provided in Table 1 for selected valves in the appropriate portions of the Safety Injection, Chemical and Volume Control, and Auxiliary Feedwater Systems. Valve operator nameplate information for Table 1 was collected by means of equipment walkdowns/field verification. (Reference Table 1)

ITEM #2: SETPOINT REQUIREMENTS (Ref. IEB 85-03 Action Item "b")

Setpoint review and revision requirements/methods have been evaluated with interim setpoint requirements established within the maintenance program for motor-operated valves at Plant Vogtle. Specific plant design aspects, relative to potential consequences associated with setpoint change implementation, were also considered as a part of the Plant Vogtle program evaluations. As a result of these evaluation efforts, appropriate wiring changes have been implemented for Unit 1 to enhance limit torque operator control switch function adjustment capabilities, with similar changes planned for Unit 2. With the exception of butterfly valves, dampers, and some special design change application requirement valves, wholesale separation of open bypass rotor functions are being enacted to allow open torque switch bypass adjustments without impacting other control switch functions. These changes provide an independent means of setpoint adjustment, eliminating the need for excessive compensatory actions such as raising torque or torque bypass switch settings significantly above that required.

Adjustments in setpoint requirements will be made as warranted per test results obtained in Item #3.

ITEM #3: OPERABILITY TESTING (Ref. IEB 85-03 Action Item "c")

The Plant Vogtle motor-operated valve reliability program has implemented initial program testing by using a "Motor-Operated Valve Analysis and Test System" (MOVATS) to provide demonstrated operability of valves, to the extent possible, to verify the switch setpoint criteria established per Item 2 above such that these valves will perform their design function when exposed to maximum differential pressure conditions. Initial testing includes evaluation of static signatures for valve degradation, incorrect adjustments, and other abnormalities in motor-operated valves. Additional demonstrated operability testing will include evaluation of dynamic signatures for optimizing setpoint criteria, such that appropriate protection margins may be adjusted to ensure valve operability when subjected to

maximum differential pressure conditions, without unduely jeopardizing valve protection against catastrophic failure during normal plant operations. In addition to verifying valve operability, dynamic test results also provide a tangible means of re-evaluating setpoint criteria as established in Item 2 above, thereby formulating a system of checks and balances within the valve reliability program.

ITEM #4:

PROCEDURES (Ref. IEB 85-03 Action Item "d")

Procedural requirements for program implementation are being integrated into existing Plant Vogtle procedures to prevent duplication of program effort and to assure maximum benefit potential from lessons learned.

Current procedural actions include the generation of a MOVATS test procedure and extensive motor-operated valve maintenance and checkout/setup procedure upgrades to provide a higher degree of detail consistent with valve performance/switch setting requirements. Additional procedural and training enhancements will be enacted as deemed appropriate pursuant to the test results and findings per Items 2 and 3 above.

ITEM #5:

INITIAL RESPONSE/SCHEDULE (Ref. IEB 85-03 Action Item "e")

This response meets IEB 85-03, Action Item "e", initial response requirements.

A collateral completion schedule has been selected to facilitate ongoing program adjustments commensurate with the lessons learned and experience gained during IEB 85-03 test program implementation at Plant Vogtle. In view of system availability and required plant configurations to support dynamic testing under simulated accident conditions, the scheduled parallel completion of programmatic goals and test phase requirements is forecasted for Unit 1 on or before the commencement date of commercial operation.

Unit 2 programmatic goals and test phase requirements, pending system completion/operational availability to support dynamic testing, are forecasted for completion prior to the date of Unit 2 operating license issuance in accordance with the provisions and requirements of IEB 85-03 Action Item "e", part 2.

ITEM #6:

TEST REPORTS (Ref. IEB 85-03 Action Item "f")

Appropriate written reports of test results will be submitted within 60 days after program completions to the governing Regional Administrator pursuant to the requirements of IEB 85-03.

Response To IEB 85-03
Page Four

Any changes in program form or content within this response
as a result of program development will be amended as applicable
in the final test reports.

August 27, 1986

VOGTLE ELECTRIC GENERATING PLANT
UNITS 1 & 2

TAG NUMBER	TYPE/ SIZE	MANUFACTURER/ * MODEL	VALVE			VALVE OPERATOR			VALVE FUNCTION
			ANSI RATING (lbs)	DESIGN PRESS. (PSIG)	DESIGN (PSID) C/O	MANUFACTURER/ MODEL	MOTOR (RPM)	OPERATOR (RPM)	
HV-3009	GATE 4IN.	ANCHOR/DARLING E9001-12	900#	1185	1185 1185	LIMITORQUE SMB-00	1900	63.3	STEAM GEN TO AFPT STEAM ISOLATION VALVE
HV-3019	GATE 4IN.	ANCHOR/DARLING E9001-12	900#	1185	1185 1185	LIMITORQUE SMB-00	1900	63.3	STEAM GEN TO AFPT STEAM ISOLATION VALVE
HV-5106	GATE 4IN.	ANCHOR/DARLING E9001-59	900#	1185	1185 1185	LIMITORQUE SMB-00	1900	82.6	AUX. FEEDWATER PUMP TURBINE ISOLATION VALVE
HV-5113	BFLY 10IN.	FISHER 9280	150#	150	40 40	LIMITORQUE SMB-000	1900	57.6	CONDENSATE STORAGE TANK V4002 TO PUMP P4001
HV-5118	BFLY 8IN.	FISHER 9280	150#	150	40 40	LIMITORQUE SMB-000	3600	57.6	CONDENSATE STORAGE TANK V4002 TO PUMP P4002
HV-5119	BFLY 8IN.	FISHER 9280	150#	150	40 40	LIMITORQUE SMB-000	3600	57.6	CONDENSATE STORAGE TANK V4002 TO PUMP P4003
HV-5120	GLOBE 4IN.	FISHER SS-120	900#	1800	1715 1715	LIMITORQUE SMB-00	1900	76.6	AUXILIARY FEEDWATER PUMP P4001 DISCHARGE
HV-5122	GLOBE 4IN.	FISHER SS-120	900#	1800	1715 1715	LIMITORQUE SB-00	1900	76.6	TURBINE DRIVEN AFWP DISCHARGE TO HEADER
HV-5125	GLOBE 4IN.	FISHER SS-120	900#	1800	1715 1715	LIMITORQUE SB-00	1900	76.6	TURBINE DRIVEN AFWP DISCHARGE TO HEADER
HV-5127	GLOBE 4IN.	FISHER SS-120	900#	1800	1715 1715	LIMITORQUE SB-00	1900	76.6	TURBINE DRIVEN AFWP DISCHARGE TO HEADER
HV-5132	GLOBE 4IN.	FISHER SS-120	900#	1800	1645 1645	LIMITORQUE SB-00	3400	78.0	AUXILIARY FEEDWATER PUMP DISCHARGE
HV-5134	GLOBE 4IN.	FISHER SS-120	900#	1800	1645 1645	LIMITORQUE SB-00	3400	78.0	AUXILIARY FEEDWATER PUMP DISCHARGE

Table 1

Page: 2

August 27, 1986

VOGTLE ELECTRIC GENERATING PLANT
UNITS 1 & 2

TAG NUMBER	TYPE/ SIZE	MANUFACTURER/ * MODEL	VALVE			VALVE OPERATOR			VALVE FUNCTION
			ANSI RATING (lbs)	DESIGN PRESS. (PSIG)	DESIGN (PSID) C/O	MANUFACTURER/ MODEL	MOTOR (RPM)	OPERATOR (RPM)	
HV-5137	GLOBE 4IN.	FISHER SS-120	900#	1800	1645 1645	LIMITORQUE SB-00	3400	78.0	AUXILIARY FEEDWATER PUMP DISCHARGE
HV-5139	GLOBE 4IN.	FISHER SS-120	900#	1800	1645 1645	LIMITORQUE SB-00	3400	78.0	AUXILIARY FEEDWATER PUMP DISCHARGE
HV-8104	GLOBE 2IN.	VELAN 2TH78FN	1500#	2500	2750 2750	LIMITORQUE SMB-00	1700	16.7	BORIC ACID TANK TO CHARGING PUMP
HV-8105	GATE 3IN.	WESTINGHOUSE 3GM78FN	1500#	2500	2750 2750	LIMITORQUE SB-00	3400	82.9	CHARGING PUMP TO RCS ISOLATION
HV-8106	GATE 3IN.	WESTINGHOUSE 3GM78FN	1500#	2500	2750 2750	LIMITORQUE SB-00	3400	82.9	CHARGING PUMP TO RCS ISOLATION
HV-8110	GLOBE 2IN.	VELAN 2TH78FN	1500#	2500	2750 2750	LIMITORQUE SMB-00	1700	16.78	CHARGING PUMP TO MINIFLOW ISOLATION
HV-8111A	GLOBE 2IN.	VELAN 2TH78FN	1500#	2500	2750 2750	LIMITORQUE SMB-00	1700	18.1	CHARGING PUMP TO MINIFLOW ISOLATION
HV-8111B	GLOBE 2IN.	VELAN 2TH78FN	1500#	2500	2750 2750	LIMITORQUE SMB-00	1700	16.78	CHARGING PUMP TO MINIFLOW ISOLATION
HV-8146	GATE 3IN.	WESTINGHOUSE 3GM98FNI	1500#	2500	500 2750	LIMITORQUE SMB-000	1700	46.6	CHARGING TO RCS ISOLATION
HV-8147	GATE 3IN.	WESTINGHOUSE 3GM98FNI	1500#	2500	500 2750	LIMITORQUE SMB-000	1700	46.4	CHARGING TO RCS ISOLATION
HV-8438	GATE 4IN.	WESTINGHOUSE 4GM78FN	1500#	2500	2750 0	LIMITORQUE SB-00	1700	44.0	CHARGING PUMP & DISCHARGE
HV-8471A	GATE 6IN.	WESTINGHOUSE 6GM72FB	150#	200	200 200	LIMITORQUE SMB-000	3400	93.2	CHARGING PUMP A SUCTION

Table 1
Page: 3

August 27, 1986

VOGTLE ELECTRIC GENERATING PLANT
UNITS 1 & 2

TAG NUMBER	TYPE/ SIZE	MANUFACTURER/ * MODEL	VALVE			VALVE OPERATOR			VALVE FUNCTION
			ANSI RATING (lbs)	DESIGN PRESS. (PSIG)	DESIGN (PSID) C/O	MANUFACTURER/ MODEL	MOTOR (RPM)	OPERATOR (RPM)	
HV-8471B	GATE 6IN.	WESTINGHOUSE 6GM72FB	1500	200	200 200	LIMITORQUE SMB-000	3400	93.2	CHARGING PUMP B SUCTION
HV-8485A	GATE 4IN.	WESTINGHOUSE 4GM78FN	1500	2500	100 2750	LIMITORQUE SB-00	1700	44	CHARGING PUMP A DISCHARGE
HV-8485B	GATE 4IN.	WESTINGHOUSE 4GM78FN	1500	2500	100 2750	LIMITORQUE SB-00	1700	44	CHARGING PUMP B DISCHARGE
HV-8508A	GLOBE 2IN.	VELAN 2TM78FN	1500	2500	2750 2750	LIMITORQUE SMB-00	1700	26.98	CHARGING PUMP A RECIRC TO RWST (CHRG. PMP. MINFLW)
HV-8508B	GLOBE 2IN.	VELAN 2TM78FN	1500	2500	2750 2750	LIMITORQUE SMB-00	1700	26.98	CHARGING PUMP B RECIRC TO RWST (CHRG. PMP. MINFLW)
HV-8801A	GATE 4IN.	WESTINGHOUSE 4GM78FN	1500	2500	0 2750	LIMITORQUE SB-00	1700	41.46	BORON INJECTION TANK DISCHARGE ISOLATION VALVE
HV-8801B	GATE 4IN.	WESTINGHOUSE 4GM78FN	1500	2500	0 2750	LIMITORQUE SB-00	1700	41.46	BORON INJECTION TANK DISCHARGE ISOLATION VALVE
HV-8802A	GATE 4IN.	WESTINGHOUSE 4GM78FN	1500	2500	0 2750	LIMITORQUE SB-00	1700	41.46	RCS HOTLEG LOOPS 1&4 HEADER ISOLATION
HV-8802B	GATE 4IN.	WESTINGHOUSE 4GM78FN	1500	2500	0 2750	LIMITORQUE SB-00	1700	44	RCS HOTLEG LOOPS 2&3 HEADER BYPASS
HV-8806	GATE 8IN.	WESTINGHOUSE 8GM72FB	1500	200	200 200	LIMITORQUE SB-00	1700	49.85	SAFETY INJECTION PUMP SUCTION HEADER ISOLATION
HV-8807A	GATE 6IN.	WESTINGHOUSE 6GM72FB	1500	200	200 200	LIMITORQUE SMB-000	3400	93.15	SAFETY INJECTION PUMP SUCTION HEADER
HV-8807B	GATE 6IN.	WESTINGHOUSE 6GM72FB	1500	200	200 200	LIMITORQUE SMB-000	3400	93.15	SAFETY INJECTION PUMP SUCTION HEADER

Table 1

Page: 8

August 27, 1986

VOGTLE ELECTRIC GENERATING PLANT
UNITS 1 & 2

TAG NUMBER	TYPE/ SIZE	MANUFACTURER/ * MODEL	VALVE			VALVE OPERATOR			VALVE FUNCTION
			ANSI RATING (lbs)	DESIGN PRESS. (PSIG)	DESIGN (PSID) C/O	MANUFACTURER/ MODEL	MOTOR (RPM)	OPERATOR (RPM)	
HV-8813	GLOBE 2IN.	VELAN 2TM78FN	1500#	2500	2750 2750	LIMITORQUE SMB-000	1700	15.6	SAFETY INJECTION MINIFLOW HEADER ISOLATION
HV-8814	GLOBE 1.5IN	VELAN 1.5TM78FN	1500#	2500	2750 2750	LIMITORQUE SMB-00	1700	16.78	SAFETY INJECTION MINIFLOW ISOLATION
HV-8821A	GATE 4IN.	WESTINGHOUSE 4GM77FH	900#	1750	1500 1500	LIMITORQUE SMB-00	1700	34.69	SAFETY INJECTION PMP "A" RCS LOOP HEADER ISOLATION
HV-8821B	GATE 4IN.	WESTINGHOUSE 4GM77FH	900#	1750	1500 1500	LIMITORQUE SMB-00	1700	34.69	SAFETY INJECTION PMP "B" LOOP HEADER ISOLATION
HV-8835	GATE 4IN.	WESTINGHOUSE 4GM78FN	1500#	2500	0 2750	LIMITORQUE SB-00	1700	41.46	SAFETY INJECTION SYS RCS COLDLEG INLET ISOLATION VALVE
HV-8920	GLOBE 1.5IN	VELAN 1.5TM78FN	1500#	2500	2750 2750	LIMITORQUE SMB-00	1700	16.78	SAFETY INJECTION PMP "B" MINIFLOW ISO. VALVE
HV-8923A	GATE 6IN.	WESTINGHOUSE 6GM72FB	150#	200	200 200	LIMITORQUE SMB-000	3400	93.15	SAFETY INJECTION PMP INLET TRAIN A
HV-8923B	GATE 6IN.	WESTINGHOUSE 6GM72FB	150#	200	200 200	LIMITORQUE SMB-000	3400	93.15	SAFETY INJECTION PMP INLET TRAIN B
HV-8924	GATE 6IN.	WESTINGHOUSE 6GM72FB	150#	200	200 200	LIMITORQUE SMB-000	3400	93.15	CHARGING PUMP TO SAFETY INJECTION PMP CROSS TIE
LV-0112B	GATE 4IN.	WESTINGHOUSE 4GM72FB	150#	200	100 200	LIMITORQUE SMB-000	1700	46.6	VOLUME CONTROL TANK OUTLET ISOLATION
LV-0112C	GATE 4IN.	WESTINGHOUSE 4GM72FB	150#	200	100 200	LIMITORQUE SMB-000	1700	46.6	VOLUME CONTROL TANK OUTLET ISOLATION
LV-0112D	GATE 8IN.	WESTINGHOUSE 8GM72FB	150#	200	200 200	LIMITORQUE SMB-00	1700	49.85	REFUELING WATER STOR AGE TANK TO CHARGING PUMP

August 27, 1986

VOGTLE ELECTRIC GENERATING PLANT
UNITS 1 & 2

TAG NUMBER	TYPE/ SIZE	MANUFACTURER/ * MODEL	VALVE			VALVE OPERATOR			VALVE FUNCTION
			ANSI RATING (lbs)	DESIGN PRESS. (PSIG)	DESIGN (PSID) C/O	MANUFACTURER/ MODEL	MOTOR (RPM)	OPERATOR (RPM)	
LV-0112E	GATE 8IN.	WESTINGHOUSE 86H72FB	1500	200	200 200	LIMITORQUE SMB-00	1700	49.85	REFUELING WATER STOR AGE TANK TO CHARGING PUMP
PV-15129	GLOBE 4IN.	GINPEL	9000	1500	1185 1185	LIMITORQUE SMB-000	1900	56.72	TERRY TURBINE TRIP AND THROTTLE VALVE

* APPLICABLE E-SPEC DESIGNATIONS HAVE BEEN PROVIDED
FOR WESTINGHOUSE SUPPLIED VALVES.

ENCLOSURE 3
TO
GEORGIA POWER COMPANY
LETTER SL-2042

The following list of prints represents the piping and instrumentation drawings (P&IDs) from the point-of-suction to the point-of-injection for the Vogtle Units 1 and 2 Safety Injection, Chemical and Volume Control, and Auxiliary Feedwater systems. Six (6) copies of each print are included herein. Drawing numbers for those valves identified in the attachment to Georgia Power Company letter GN-1065 dated August 28, 1986 are also noted below.

Vogtle Unit 1

1X4DB111
1X4DB112
1X4DB114 (See Note 1)
1X4DB115
1X4DB116-1 (See Note 2)
1X4DB116-2 (See Note 3)
1X4DB117
1X4DB118
1X4DB119 (See Note 4)
1X4DB120
1X4DB121 (See Note 5)
1X4DB122
1X4DB131
1X4DB159-2 (See Note 6)
1X4DB161-1
1X4DB161-2 (See Note 7)
1X4DB161-3 (See Note 8)
1X4DB168-3

Vogtle Unit 2

2X4DB111
2X4DB112
2X4DB114 (See Note 1)
2X4DB115
2X4DB116-1 (See Note 2)
2X4DB116-2 (See Note 3)
2X4DB117
2X4DB118
2X4DB119 (See Note 4)
2X4DB120
2X4DB121 (See Note 5)
2X4DB122
2X4DB131
2X4DB159-2 (See Note 6)
2X4DB161-1
2X4DB161-2 (See Note 7)
2X4DB161-3 (See Note 8)
2X4DB168-3

Notes:

- (1) Denotes valves HV-8146, HV-8147
- (2) Denotes valves HV-8104, HV-8105, HV-8106, LV-0112B, LV-0112C
- (3) Denotes valves HV-8110, HV-8111A, HV-8111B, HV-8438, HV-8471A, HV-8471B, HV-8485A, HV-8485B, HV-8508A, HV-8508B, HV-8924, LV-0112D, LV-0112E
- (4) Denotes valves HV-8801A, HV-8801B
- (5) Denotes valves HV-8802A, HV-8802B, HV-8806, HV-8807A, HV-8807B, HV-8813, HV-8814, HV-8821A, HV-8821B, HV-8835, HV-8920, HV-8923A, HV-8923B
- (6) Denotes valves HV-3009, HV-3019
- (7) Denotes valves HV-5113, HV-5118, HV-5119, HV-5120, HV-5122, HV-5125, HV-5127, HV-5132, HV-5134, HV-5137, HV-5139
- (8) Denotes valves HV-5106, PV-15129