150-D

** COPY ** COPY ** COPY ** COPY ** COPY ** COPY ** COPY ** COPY ** CO

NUCLEAR PLANT MAINTENANCE WORK ORDER NORMS (1 OF 2

1.CONTROL NO. 19003340 00 2.DATE 07/17/90 3.UNIT 1 4.SYSTEM 2403
5.MPL/TAG NO. 12403G4002 DIESEL GENERATOR 5A.REPAIR TAG ____

6.PROB/WORK REQ. MPL/TAG(S) ASSOCIATED WITH SPECIAL INDICATORS
THE STICKING OF SEVERAL AIR START VALVES WAS DETERMINED TO BE THE CAUSE OF THE RECENT 2A D/G FAILURE TO START. WRK ORD 13 IAW.

CONT. N

NPRD "Y"

7.INITIATOR DUSTY ADAMS 8.SUPRV JP REDDING LOC 1DGB1-
9.MWO CLASS S EQP CLASS 015 10.UNIT STAT - 11.FIRE PROTECT N
12.DCR N 13.NCR/DR N 14.TYPE MAINT P 15.DURATION

16.CRAFT	MECH(EST/ACT)	ELEC(EST/ACT)	I&C(EST/ACT)	CONT(EST/ACT)	HP/OT(EST/AC
CREW	0 4	0	0	0	0
HRS.	4 4				
EXP.	0	0	0	0	0
SCHED BEG					
SCHED END					
RESP FOREMAN					

17.CLR T D NO 52 1-98 (DIN) 7.18.90
QUALIFIED 18.WELD PERM N RWP PERM NA
19.QC HOLD POINTS 20.PROC
QC REVIEWED BY 7/18/90 21.PRI 24 22.LCO NA
23.WORK * INST. MAINT ZONE IV HOUSEKEEPING

CONT. Y

ALL 18 AIR START VALVES ARE TO BE "POP" TESTED PRIOR TO AND IMMEDIATELY FOLLOWING THEIR NEXT SURVEILLANCE RUN. THE "POP" TEST CAN BE PERFORMED BY CONNECTING HOUSE SERVICE AIR (REGULATED TO 100PSI TO THE 1/4" SUPPLY TUBING (COMING FROM THE AIR START DISTRIBUTOR) AT

24.INITIATE REVIEW
OPS DATE 7/18/90 MNT CX DATE 7/18/90 25.SPEC REV REQ N
HP N/A DATE 7/18/90 ENG KH DATE 7/18/90 SIG. 26.MWO RELEASE FOR WORK
DATE 7/18/90

27.ACT WORK PERFRMED

See Cont Sht MWO 7-18-90

CONT. N

HIST SUM

28.MTRL REQD 90-10433 10532
29.PERSON PERFORMING WORK(NAME) DATE 30.MAINTENANCE FOREMAN DATE
JH Moore 7/19/90 David Sedivy 7/19/90
31.INSPECTION PERFORMED BY WR Tomlinson DATE 7/20/90
32.METHOD OF F.T. OPS 70 prefm OSP-12R50-1
33.PROCEDURE # 12R50-1 34.PERFORMED BY
36.PROVES OPERABILITY 37.METHOD USED TO PROVE OPERABILITY 12R50-1 35.DATE 7/19/90
38.SATISFY / UNSATISFY 39.IF UNSAT .CORR. ACTION
40.UNIT STATUS AT TIME OF FAILURE N 41.TYPE FAIL N 42.MODE OF FAIL N
43.CAUSE OF FAILURE N 44.DETECT BY N 45.EFFECT ON SYS N
46.EFF ON PLANT N 47.MWO STAT D 48.CAUSE N 49.CORR ACT. N
50.NEW MWO N/A 51.OPER. ACCEPT BY WCB DATE 7/19/90
52.OSOS APPROVAL NA
53.SPEC REV COMP NA DATE DATE
55.CLOSE OUT APPROVAL BY QC 54.MEET. # NA DATE

13. Stuck Tr

** COPY ** COPY ** COPY ** COPY ** COPY ** COPY **COPY ** COPY ** COPY ** COPY
NUCLEAR PLANT MAINTENANCE WORK ORDER (CONTINUED)
CONTROL NO. 19003340 00 (2 OF 2)

WORK INSTRUCTIONS: POINT ENTERING SUB-COVER.
A QUICK BURST OF SERVICE AIR WILL ACTUATE THE AIR START VALVE AND AN AUDIBLE METALIC "CLICK" SHOULD BE HEARD. THE QUICK RELEASE OF THIS AIR WILL ALLOW THE AIR START VALVE SPRING TO CLOSE THE VALVE; AND AGAIN AN AUDIBLE "CLICK" SHOULD BE DETECTED. THE EVIDENCE OF THESE "CLICKS" WILL ASSURE THE VALVE IS OPERATING PROPERLY.

- UPON COMPLETION OF TEST · DISCONNECT SERVICE AIR AND RECONNECT PERMANENT AIR LINE.

- IF VALVE REQUIRES REWORKING RETURN MWO TO WPG FOR REVISION.

CSP 7/14/90

Nuclear Plant Maintenance Work Order Continuation Sheet

(1)

MPL No. 1-2403-G4-002 MWO No. 19003340

Work Description The sticking of several Air Start valves Was Found on D/G 1B. Valves found was 7L, 4L 2L 1L on the Left banks side were bad, on the right bank side were 8R 7R 6R 5R 2R 1R were bad. WCP 7-18-90 Maintained Zone IV Housekeeping.

Block 26 QC Inspect 7/15/90

Removed all 16 air start caps and piston from 1B D/G, to check flatness of Cap, and Clearence between the original piston and new Cap, the sub Cover were temporary Installed on heads Maintained Zone IV Housekeeping and Class-C-Cleanliness. WCP 7-18-90 Checked FLATNESS of CAPS by using granite SURFACE TABLE IN TOOL ROOM and a .001 feeler guage. 6 caps were acceptable and labeled as such. The 2 CAPS that Failed were .002-.00315 gthm 7-18-90

Block 27: lapped pistons to obtain .003 clearance between piston and cap. Used VP-3-2153 Calibr 10-2-90 and VP-3-2155 Calibr 10-2-90. Maintained zone IV housekeeping QCJ 7-18-90

Installed caps and pistons on Engine on all 16 air start valves. Some new caps were obtained on MER-90-10453 and checked for flatness to replace ones with unacceptable lapping on flatness test. Two old ones that were unacceptable had burrs on them causing none to seat. Removed burrs and then these were stoned down. Torqued all air start Valve caps down to 150-ft lbs using VP-3-2273 C/D 10-5-90.

VOGTLE ELECTRIC GENERATING PLANT

GEORGIA POWER CO.

MAINTENANCE WORK ORDER REVISION SHEET

1 CONTROL NO.	2 REVISION NO.	3 MPL TAG NO.	4 DATE
19003340	2	1-2403-G4-002	7-19-90

5 REASON FOR REVISION

After machining pistons & lifter cages on [illegible] Coolant for [illegible] 8E Air Start Valve Failed [illegible] Test

Block 23: Per Conversation with "Cooper" we can machine old cages up to .010 from bottom of cage to attain .001 or less flatness. Cage one of the old existing cages that were removed from engine to attain the clearance. Also, hone or machine piston when there is a .003 diametrical clearance between cage & piston. Record measurements on data sheet from 27598-C.

6 INITIATOR: [illegible signature]

REVIEW SIGNATURES

7 MAINTENANCE ENG: [initials] 7-19-90	8 OPERATIONS: [signature] — / 9 CLEARANCE REQUIRED: 1-90-10181
10 QC REVIEW: W.R. [signature] 7/19/90	11 HOLD POINTS: YES — HOLD POINT ATTACHED
12 HP REVIEW: [signature] 7-19-90	13 NEW RWP REQUIRED: NONE
14 ANII REVIEW: NA CAC 7-19-90	15 HOLD POINTS: NA
16 WORK PLANNER: [signature] 7/19/90	17 PROCEDURES: 27598-C
18 FIRE PROTECTION REVIEW: NO	19 SHIFT SUPERVISOR: [signature] — 7/19/90 (*)

20 REMARKS: (*) Notify U-1 CR SS prior to Beginning work

VOGTLE ELECTRIC GENERATING PLANT

GEORGIA POWER CO.

MAINTENANCE WORK ORDER REVISION SHEET

1 CONTROL NO.	2 REVISION NO.	3 MPL TAG NO.	4 DATE
1900334O	1	1-2403-G4-002	7/18/90

5 REASON FOR REVISION

- Several air start valves failed test.
- Add Work Instruction Block 23:
  - Remove cap from All air start valve (Total 16)
  - Remove Cap from NEW air start valve (Req from Warehouse)
  - O.C. Check NEW cap for flatness. (Flatness within .001 MAX clearance allowed.)
  - Check for a clearance between the orig (installed) piston and NEW cap. Clearance = .001" to .003". Ref. 27598-C
  - Install NEW cap per 27598-C.
  - See Below.

6 INITIATOR

L. Johnson Jr.

REVIEW SIGNATURES

7 MAINTENANCE ENG A.S. Heaton 7-18-90	8 OPERATIONS 7/19/90
10 QC REVIEW 7/19/90	11 HOLD POINTS HOLD POINT ATTACHED
12 HP REVIEW 7-18-90	13 NEW RWP REQUIRED NONE
14 ANII REVIEW N/A 7/19/90	15 HOLD POINTS N/A
16 WORK PLANNER 7/19/90	17 PROCEDURES 27598-C
18 FIRE PROTECTION REVIEW NO	19 SHIFT SUPERVISOR
20 REMARKS HOLD POINT Check orig (cap) (Removed from DG) cap for Flatness - Check orig cap for clearance .001" - .003" between pist. & cap, per 27598-C. ~~- Remove top the parts of cap(s)~~ (New Toxic) - Lap piston to obtain .001" - .003". Need max clearance which is .003".	9 CLEARANCE REQUIRED See Mod FTD

GEORGIA POWER COMPANY
VEGP QUALITY CONTROL

QC HOLD / WITNESS POINTS

35010-C FIG. 1
PAGE 1 OF 3

WO No: 19003340 (2)

PROCEDURE & REV No: 27598-C Revision 0

NOTIFY QUALITY CONTROL PRIOR TO PERFORMING THE WORK ACTIVITY OR STEP ASSOCIATED WITH THE HOLD (H) OR WITNESS (W) POINT

DO NOT BYPASS QC HOLD OR WITNESS POINTS

STEP No.	H/W	HOLD POINT / WITNESS POINT DESCRIPTION	ASSIGNED BY INIT	ASSIGNED BY DATE	NOTIFIED INIT	NOTIFIED DATE	QC ACTION INIT	QC ACTION I—N/A
		Notify QC to verify the following hold points:	DL	7/17/90	WRP	7/19/90	WRP	I
4.6.2b	H	Verify inside diameter of cap in x - x and y - y planes					WRP	I
4.6.2c	H	Verify outside diameter of piston in x - x and y - y planes					WRP	I
4.6.2d	H	Verify clearances			WRP	7/19/90	WRP	I
4.6.2e	H	Inspect following components for signs of corrosion and wear:						
		1) Valve stem				N/A WRP 7/19/90		
		2) Lower guide inside diameter, outside diameter and rings						
		3) Upper guide inside and outside diameter						
		4) Cap inside diameter						
		5) Piston outside diameter						
		6) Housing inside diameter						
4.6.2f	H	Inspect valve and seat for pitting	DL	7/17/90				

COMMENTS & IR NUMBERS: (initial and date entries)
IR# 35341, WRP, 7/19/90

GEORGIA POWER COMPANY
VEGP QUALITY CONTROL

QC HOLD / WITNESS POINTS

WO No: 19003340 (2)

PROCEDURE & REV No: 27598-C Revision 0

NOTIFY QUALITY CONTROL PRIOR TO PERFORMING THE WORK ACTIVITY OR STEP ASSOCIATED WITH THE HOLD (H) OR WITNESS (W) POINT

DO NOT BYPASS QC HOLD OR WITNESS POINTS

STEP No.	H/W	HOLD POINT / WITNESS POINT DESCRIPTION	ASSIGNED BY INIT	ASSIGNED BY DATE	NOTIFIED INIT	NOTIFIED DATE	QC ACTION INIT	QC ACTION I—W—N/A
4.6.2h	H	Verify bluing of valve	DG	7.17.90			A	
							N	WRP 7/19/90
4.6.3	H	Verify reassembly			WRP	7/19/90	WRP	I
4.7.2	H	Verify installation of gasket					WRP	N/A
4.7.3	H	Verify cleanliness					WRP	I
4.7.4	H	Verify length of cap screws					WRP	N/A
4.7.6	H	Verify torque					WRP	I
4.7.7	H	Verify torque			WRP	7/19/90	WRP	N/A
4.7.9c	H	Verify cleanliness						
4.7.9e	H	Verify cleanliness						
4.7.9h	H	Verify torque						
4.7.10	H	Verify valve adjustment					N.A	
							WRP 7/19/90	
4.7.11	H	Verify cleanliness prior to installation of cylinder head cover	DG	7.17.90				

COMMENTS & IR NUMBERS: (initial and date entries)

THIS FORM TO BE COMPLETED BY QUALITY CONTROL PERSONNEL ONLY

GEORGIA POWER COMPANY
VEGP QUALITY CONTROL

QC HOLD / WITNESS POINTS

WO No: 1900334O (2)

PROCEDURE & REV No: 27598-C Revision 0

NOTIFY QUALITY CONTROL PRIOR TO PERFORMING THE WORK ACTIVITY OR STEP ASSOCIATED WITH THE HOLD (H) OR WITNESS (W) POINT

DO NOT BYPASS QC HOLD OR WITNESS POINTS

STEP No.	H/W	HOLD POINT / WITNESS POINT DESCRIPTION	ASSIGNED BY INIT	ASSIGNED BY DATE	NOTIFIED INIT	NOTIFIED DATE	QC ACTION INIT	QC ACTION I—~~W~~—N/
4.6.2h	H	Verify bluing of valve	DCa	7.17.90			A	
							N/A WRP 7/19/90	
4.6.3	H	Verify reassembly			WRP	7/19/90	WRP	I
4.7.2	H	Verify installation of gasket					WRP	N/A
4.7.3	H	Verify cleanliness					WRP	I
4.7.4	H	Verify length of cap screws					WRP	N/A
4.7.6	H	Verify torque					WRP	I
4.7.7	H	Verify torque			WRP	7/19/90	WRP	N/A
4.7.9c	H	Verify cleanliness						
4.7.9e	H	Verify cleanliness						
4.7.9h	H	Verify torque						
4.7.10	H	Verify valve adjustment					N/A WRP 7/19/90	
4.7.11	H	Verify cleanliness prior to installation of cylinder head cover	DCa	7.17.90				

COMMENTS & IR NUMBERS: (initial and date entries)

THIS FORM TO BE COMPLETED BY QUALITY CONTROL PERSONNEL ONLY

GEORGIA POWER COMPANY
VEGP QUALITY CONTROL

QC HOLD / WITNESS POINTS

WO No: 19003340 Δ

PROCEDURE & REV No: 27598-C Revision 0

NOTIFY QUALITY CONTROL PRIOR TO PERFORMING THE WORK ACTIVITY OR STEP ASSOCIATED WITH THE HOLD (H) OR WITNESS (W) POINT

DO NOT BYPASS QC HOLD OR WITNESS POINTS

STEP NO.	H/W	HOLD POINT / WITNESS POINT DESCRIPTION	ASSIGNED BY INIT	ASSIGNED BY DATE	NOTIFIED INIT	NOTIFIED DATE	QC ACTION INIT	QC ACTION I-W-N/A
4.7.13	H	Verify main bearing cap oil lines reinstalled and tightened	DG	7/17/90			N/A WRP	7/19/90
4.8	H	Verify relanding of lifted leads	DG	7/17/90				
N/A	H	Notify QC to verify fixtures of caps	WRP	7/19/90	WRP	7/19/90	WRP	I

COMMENTS & IR NUMBERS: (initial and date entries)

THIS FORM TO BE COMPLETED BY QUALITY CONTROL PERSONNEL ONLY

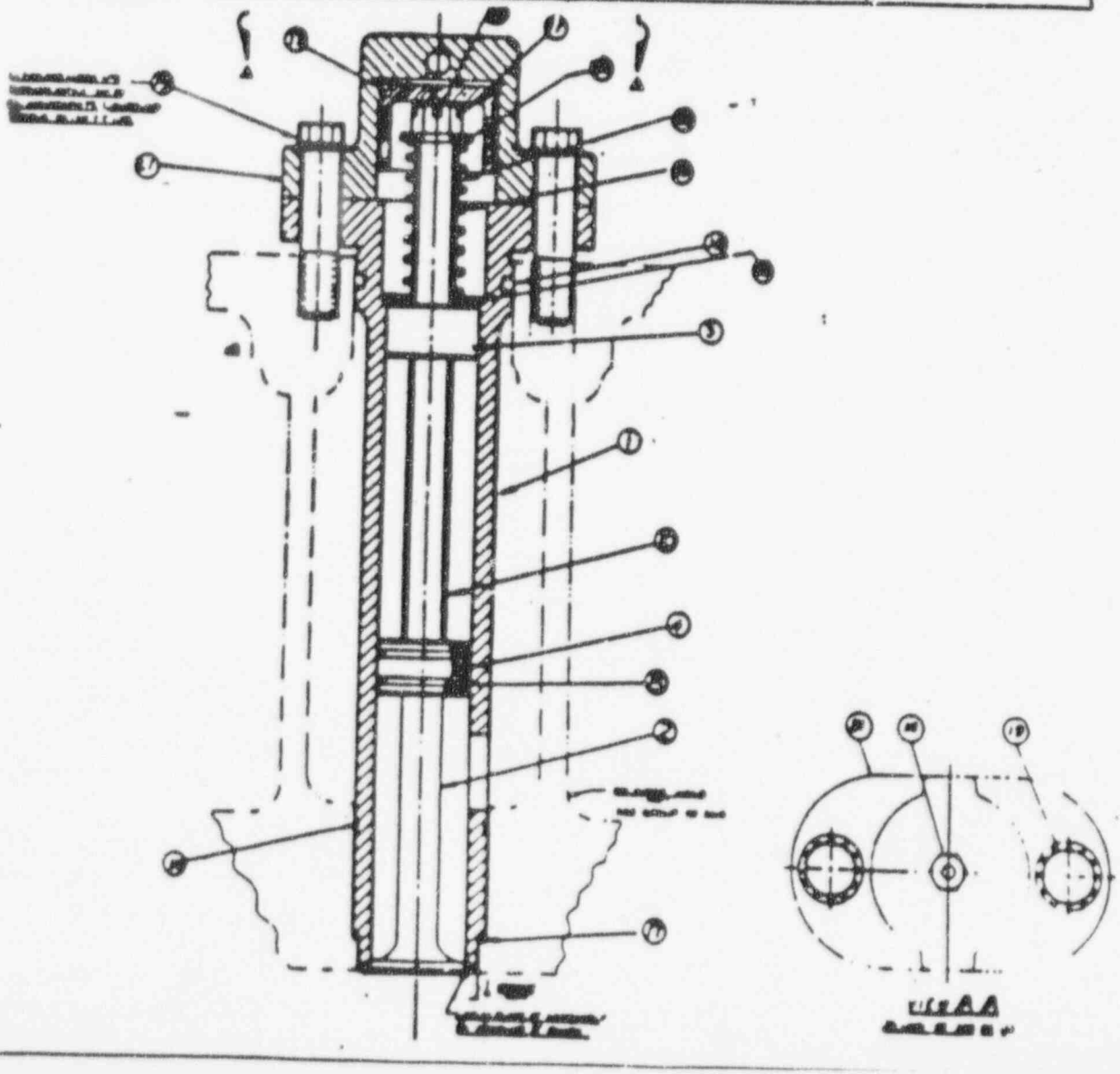
Sheet 1 of 4

FOR USE WITH CONTROL NO. 19003140

DATA SHEET 1 PARTIAL SET OF DATA SHEETS

AIR START VALVE INSPECTION

COMPONENT GROUP TITLE: AIR START VALVE	PARTS GROUP NO. 02-359
LOCATION: VOGTLE ELECTRIC GENERATING PLANT	UNIT NO. 1
TAG NUMBER: 1-2403-54-002	ENGINE SERIAL NO. 76022
TOTAL ENGINE HOURS: 7439	HOURS SINCE LAST INSPECTION: N/A
DATE THIS INSPECTION: 7-18-90	REFERENCE STEPS: 4.6, 4.7



DATA SHEET 1

AIR START VALVE INSPECTION

ENGINE TAG NO.: 1-24[illegible] DATE: 7-19-91

1) Step 4.6.2b,c and d: Cap To Piston Clearance

Valve	CAP x-x	CAP y-y	PISTON x-x	PISTON y-y	Clearance	Sat	Unsat	Performed By
1R								
1L								
2R								
2L								
3R								
3L								
4R								
4L								
5R								
5L N/A								
6R								
6L								
7R								
7L								
8R	2.750	2.750	2.747	2.747	0.003	X		[illegible]
8L N/A								

M&TE Serial No. VP-3-2155

Cal. Due Date 10/2/90

Clearance When New: 0.001/0.003" Replace When Over 0.009"

2) Step 4.6.2e: Valve Internals Inspection

Valve	Comments	Sat	Unsat	Performed By/Date
1R				
1L				
2R				
2L				
3R				
3L				
4R				
4L				
5R				
5L				
6R				
6L				
7R				
7L				
8R				
8L				

DATA SHEET 1

AIR START VALVE INSPECTIONS

ENGINE TAG NO. [illegible] DATE: [illegible]

3) Step 4.6.2f and h: Valve Seat Inspection

Valve	Valve/Seat Inspection	Bluing	Sat	Unsat	Performed By/Date
1R					
1L					
2R					
2L					
3R					
3L					
4R					
4L					
5R					
5L					
6R					
6L					
7R					
7L					
8R					
8L					

4) [illegible] Air start valve capscrews. ENGINE HOURS____

[illegible]	[illegible]	[illegible]	[illegible]	Torque	Performed	Witnessed
1R						
2R						
[illegible]						

[illegible]

COMPLETION SHEET

PROCEDURE NO.	REVISION	SHEET
27598-C	0	1 of 4
TAG NO.	DESCRIPTION	
1-2403-64-002	Standby Diesel Generator	
SERIAL NO.	MANUFACTURER	MODEL
76022	Transamerica Delaval	DSRV-16-4
TEST EQUIPMENT USED	[X] Safety Related/QC HoldPoints apply	
See applicable "Data" Sheet	[ ] Non-Safety Related	

PROCEDURE STEP	DESCRIPTION	MAINT. INIT/DATE	HOLD POINT (Yes/No)	QC INIT/DATE
4.1	Verify Prerequisites met	DJ 1/14/90	NO	WRP 1/14/90
4.2	Shift Supervisor Notified	DJ 1-14-90		/
4.3	Diesel Generator Isolated and Tagged	DJ 1-14-90	NO	WRP 1/14/90
4.6.2b through d	Measure Air Start Valve Cap to Piston Clearance "Data" Sheet 1, Sheet 2	DJ* 1-14-90	QC HOLD POINT	WRP* 1/14/90
4.6.2e	Inspect Air Start Valve Internals "Data" Sheet 1, Sheet 2	*/	N/A	*/
4.6.2f	Inspect Air Start Valve Seat For Pitting "Data" Sheet 1, Sheet 3	*/	N/A	*/
4.6.2h	Blue Air Start Valve "Data" Sheet 1, Sheet 3	*/	N/A	*/

* Document on Referenced "Data" Sheet

PROCEDURE STEP	DESCRIPTION	MAINT. INIT/DATE	HOLD POINT (Yes/No)	QC INIT/DATE
4.6.3	Air Start Valves Reassembled			
	1R		Q.C. HOLD POINT	
	2R			
	3R			
	4R			
	5R			
	6R			
	7R			
	8R			
	1L	See comment * [illegible] 7-19-90		WRP 7/19/90
	2L			
	3L			
	4L			
	5L			
	6L			
	7L			
	8L		Q.C. HOLD POINT	
4.7.2	Valve To Head Gasket Installed -			
	1R			
	2R			
	3R			
	4R			
	5R			
	6R			
	7R			
	8R			
	1L			
	2L			
	3L			
	4L			
	5L			
	6L			
	7L			
	8L			
4.7.4	Air Start Valve Capscrews Inspected "Data" Sheet 1, Sheet 3	N/A * 1	N/A	* 1
4.7.6	Air Start Valve Capscrews Torqued - "Data" Sheet 1, Sheet 3	[illegible] * 1 7-19-90	Q.C. HOLD POINT	[illegible] * 1 7/19/90

* Document on Referenced "Data" Sheet

PROCEDURE STEP	DESCRIPTION	MAINT. INIT/DATE	HOLD POINT (Yes/No)	QC INIT/DATE
4.7.7	Air Start Valve Capscrews Retorqued every 8 hours of engine operation "Data" Sheet 2	N/A	N/A	1
4.7.9h	Torque Rocker Arm Capscrews "Data" Sheet 1, Sheet 4	N/A*	N/A	*1
4.7.10	Adjust Intake And Exhaust valves			
	1R	1		1
	2R	1		1
	3R	1		1
	4R	1		1
	5R	1		1
	6R	1		1
	7R	1		1
	8R	1		1
	1L	1		1
	2L	1		1
	3L	1		1
	4L	1		1
	5L	1		1
	6L	1		1
	7L	1		1
	8L	1		1
4.7.11	Tools removed from engine	N/A	N/A	1
4.7.12	Cylinder head covers installed	N/A	N/A	1
4.7.13	Main Bearing Oil Lines installed	N/A	N/A	1
4.9	Notify Shift Supervisor required maintenance is complete	12/19/90	N/A	12/19/90

* Document on Referenced "Data" Sheet

PROCEDURE NO.	REVISION	PAGE NO.
VEGP 27598-C	0	31 of 3

COMMENTS/ADDITIONAL HOLD POINTS:

* Only caps and pistons were removed and reassembled

QC has reviewed this procedure for hold points

Signature 7/19/90

APPROVED ( )	DISAPPROVED ( )
FOREMAN	DATE
David Sackett	7-19-90

COMPLETED BY	DATE
Jerry Auld	7-19-90

GEORGIA POWER COMPANY
VEGP QUALITY CONTROL

QC HOLD / WITNESS POINTS

ISSUED FOR
PAGE 1 OF 3

WO No: 1902374(0 1/1

PROCEDURE & REV NO: 27598-C Revision 0

NOTIFY QUALITY CONTROL PRIOR TO PERFORMING THE WORK ACTIVITY OR STEP ASSOCIATED WITH THE HOLD (H) OR WITNESS (W) POINT

DO NOT BYPASS QC HOLD OR WITNESS POINTS

STEP NO.	H/W	HOLD POINT / WITNESS POINT DESCRIPTION	ASSIGNED BY INIT	ASSIGNED BY DATE	NOTIFIED INIT	NOTIFIED DATE	QC ACTION INIT	QC ACTION I—N/A
		Notify QC to verify the following			WRP	7/13/90	WRP	N/A
		hold points:	DW	7/17/90				
4.6.2b	H	Verify inside diameter of cap in						
		x - x and y - y planes					WRP	I
4.6.2c	H	Verify outside diameter of piston in						
		x - x and y - y planes						
4.6.2d	H	Verify clearances					WRP	I
4.6.2e	H	Inspect following components for						
		signs of corrosion and wear:					WRP	N/A
		1) Valve stem						
		2) Lower guide inside diameter, outside diameter and rings						
		3) Upper guide inside and outside diameter						
		4) Cap inside diameter						
		5) Piston outside diameter						
		6) Housing inside diameter					WRP	N/A
4.6.2f	H	Inspect valve and seat for pitting	DW	7/17/90	WRP	7/14/90	WRP	N/A

COMMENTS & IR NUMBERS: (initial and date entries)
IR# 35207 WRP 7/18/90

THIS FORM TO BE COMPLETED BY QUALITY CONTROL PERSONNEL ONLY

GEORGIA POWER COMPANY
VEGP QUALITY CONTROL

QC HOLD / WITNESS POINTS

ISSUED FOR
PAGE 2 OF 3

WO NO: 1900 [illegible]

PROCEDURE & REV NO: 27598-C Revision 0

NOTIFY QUALITY CONTROL PRIOR TO PERFORMING THE WORK ACTIVITY OR STEP ASSOCIATED WITH THE HOLD (H) OR WITNESS (W) POINT

DO NOT BYPASS QC HOLD OR WITNESS POINTS

STEP NO.	H/W	HOLD POINT / WITNESS POINT DESCRIPTION	ASSIGNED BY INIT	ASSIGNED BY DATE	NOTIFIED INIT	NOTIFIED DATE	QC ACTION INIT	QC ACTION I/N/A
4.6.2h	H	Verify bluing of valve	DG	7-17-90	WRP	7/16/90	[illegible] 7/17/90	N/A
4.6.3	H	Verify reassembly					WRP	I
4.7.2	H	Verify installation of gasket					WRP	N/A
4.7.3	H	Verify cleanliness					WRP	I
4.7.4	H	Verify length of cap screws					WRP	N/A
4.7.6	H	Verify torque					WRP	I
4.7.7	H	Verify torque					WRP*	I N/A 7/17/90
4.7.9c	H	Verify cleanliness					WRP	N/A
4.7.9e	H	Verify cleanliness					WRP	N/A
4.7.9h	H	Verify torque					[illegible] 7/17/90	N/A
4.7.10	H	Verify valve adjustment					[illegible] 7/17/90	N/A
4.7.11	H	Verify cleanliness prior to installation of cylinder head cover	DG	7-17-90	WRP	7/16/90	[illegible] 7/17/90	N/A

COMMENTS & IR NUMBERS: (initial and date entries)
* 3 torque checks [illegible]

THIS FORM TO BE COMPLETED BY QUALITY CONTROL PERSONNEL ONLY

GEORGIA POWER COMPANY
VEGP QUALITY CONTROL

QC HOLD / WITNESS POINTS

WO No: 1000334 0	PROCEDURE & REV NO: 27598-C Revision 0	BSEP-C FIG. PAGE 3 OF 3

NOTIFY QUALITY CONTROL PRIOR TO PERFORMING THE WORK ACTIVITY OR STEP ASSOCIATED WITH THE HOLD (H) OR WITNESS (W) POINT

DO NOT BYPASS QC HOLD OR WITNESS POINTS

STEP NO.	H/W	HOLD POINT / WITNESS POINT DESCRIPTION	ASSIGNED BY INIT	ASSIGNED BY DATE	NOTIFIED INIT	NOTIFIED DATE	QC ACTION INIT	QC ACTION I-W-N/A
4.7.13	H	Verify main bearing cap oil lines reinstalled and tightened	DCA	11790			[illegible] 1/1/90	N/A
4.8	H	Verify relanding of lifted leads	DCA	11790			[illegible] 1/3/90	N/A
N/A	H	Notify QC to verify [illegible] cap fit for flatness	JLS	1/12/90	[illegible]	1/15/90	[illegible]	I
N/A	H	Notify QC to Verify Head Cap fit for FLATNESS 2nd time	JLS	1/16/90	[illegible]	1/17/90	[illegible]	I

COMMENTS & IR NUMBERS: (initial and date entries)

EE - 1/16/90

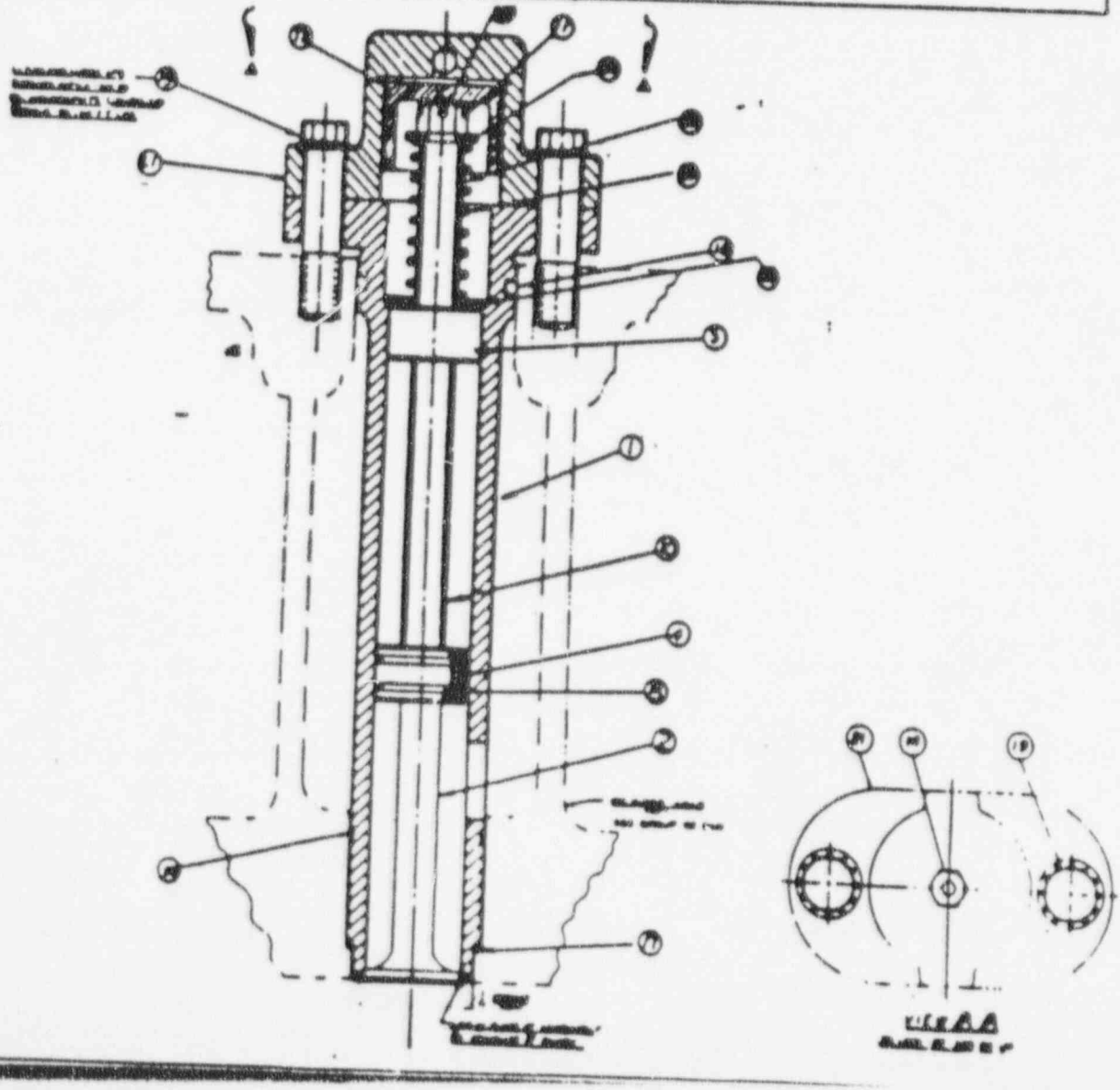
THIS FORM TO BE COMPLETED BY QUALITY CONTROL PERSONNEL ONLY

Sheet 1 of 4

DATA SHEET 1

AIR START VALVE INSPECTION

COMPONENT GROUP TITLE: AIR START VALVE	PARTS GROUP NO. 02-359
LOCATION: VOGTLE ELECTRIC GENERATING PLANT	UNIT NO. 1
TAG NUMBER: 1-2403-G4-0002	ENGINE SERIAL NO. 76022
TOTAL ENGINE HOURS: 743.9	HOURS SINCE LAST INSPECTION: N/A
DATE THIS INSPECTION: 7-17-90	REFERENCE STEPS: 4.6, 4.7



DATA SHEET 1

AIR START VALVE INSPECTION

ENGINE TAG NO.: 1-2403-G4-002 DATE: 2-14-90

1) Step 4.6.2b,c and d: Cap To Piston Clearance

Valve	CAP x-x	CAP y-y	PISTON x-x	PISTON y-y	Clearance	Sat	Unsat	Performed By
1R	2.250	2.250	2.247	2.247	0.003	X		[illegible]
1L	2.250	2.250	2.247	2.247	0.003	X		[illegible]
2R (N5)	2.250	2.250	2.247	2.247	0.003	X		[illegible]
2L	2.250	2.250	2.247	2.247	0.003	X		[illegible]
3R (N3)	2.250	2.250	2.247	2.247	0.003	X		[illegible]
3L	2.250	2.250	2.247	2.247	0.003	X		[illegible]
4R	2.250	2.250	2.247	2.247	0.003	X		[illegible]
4L	2.250	2.250	2.247	2.247	0.003	X		[illegible]
5R (N4)	2.250	2.250	2.247	2.247	0.003	X		[illegible]
5L (N6)	2.250	2.250	2.247	2.247	0.003	X		[illegible]
6R	2.250	2.250	2.247	2.247	0.003	X		[illegible]
6L	2.249	2.249	2.246	2.246	0.003	X		[illegible]
7R (N1)	2.250	2.250	2.247	2.247	0.003	X		[illegible]
7L (N2)	2.249	2.249	2.246	2.246	0.003	X		[illegible]
8R	2.250	2.250	2.247	2.247	0.003	X		[illegible]
8L	2.250	2.250	2.247	2.247	0.003	X		[illegible]

M&TE Serial No. VP3-2157 VP3-2165

Cal. Due Date 10/2/90 10/2/90

Clearance When New: 0.001/0.003" Replace When Over 0.009"

2) Step 4.6.2e: Valve Internals Inspection

Valve	Comments	Sat	Unsat	Performed By/Date
1R				
1L				
2R				
2L				
3R				
3L				
4R				
4L				
5R				
5L				
6R				
6L				
7R				
7L				
8R				
8L				

DATA SHEET 1

AIR START VALVE INSPECTIONS

ENGINE TAG NO. 1-3403-G4-0002 DATE: 7/16/90

3) Step 4.6.2f and h: Valve Seat Inspection

Valve	Valve/Seat Inspection Bluing	Sat	Unsat	Performed By/Date
1R				
1L				
2R				
2L				
3R				
3L				
4R				
4L				
5R				
5L				
6R				
6L				
7R				
7L				
8R				
8L				

4) Step 4.7.4 and 4.7.6: Air start valve capscrews. ENGINE HOURS _____

Cylinder	Capscrew = 2-3/4" Torque 1	2	1	2	Performed	Witnessed
1R						
2R						
3R						
4R						
5R						
6R						
7R						
8R						
1L						
2L						
3L						
4L						
5L						
6L						
7L						
8L						

M&TE Serial No. KF-3-2127

Cal. Due Date 10/5/90

DATA SHEET 1

ENGINE TAG No. 1-7403-C4-002 DATE: 7/18/90

5) Step 4.7.9h: Rocker Arm Capscrew Torque

Cylinder	Rocker Arm Capscrew 1	2	Performed	Witnessed
1R				
2R				
3R				
4R				
5R				
6R				
7R				
8R				
1L		N/A		
2L				
3L				
4L				
5L				
6L				
7L				
8L				

M&TE Serial No. _____ _____ _____ _____

Cal. Due Date _____ _____ _____ _____

Sheet 1 of 2

DATA SHEET 2

AIR START VALVE CAPSCREW TORQUING

ENGINE TAG No.: 1-2403-G41-0012

DATE: 7/15/70

Step 4.7.7

ENGINE HOURS

Cylinder	Capscrew 1	Capscrew 2	Did Screw Move?	Performed	Witnessed
1R					
2R					
3R					
4R					
5R					
6R					
7R					
8R					
1L					
2L					
3L					
4L					
5L					
6L					
7L					
8L					

M&TE Serial No.

Cal. Due Date

Step 4.7.7:

ENGINE HOURS

Cylinder	Capscr. 1	Capscr. 2	Performed	Witnessed
1R				
2R				
3R				
4R				
5R				
6R				
7R				
8R				
1L				
2L				
3L				
4L				
5L				
6L				
7L				
8L				

M&TE Serial No.

Cal. Due Date

Sheet 2 of 2

DATA SHEET 2

AIR START VALVE CAPSCREW TORQUING

ENGINE TAG No.:

DATE:

Step 4.7.7

ENGINE HOURS

Cylinder	Capscrew 1	Capscrew 2	Did Capscrew Move?	Performed	Witnessed
1R					
2R					
3R					
4R					
5R					
6R					
7R					
8R					
1L					
2L					
3L					
4L					
5L					
6L					
7L					
8L					

M&TE Serial No.

Cal. Due Date

Step 4.7.7:

ENGINE HOURS

Cylinder	Capscrew 1	Capscrew 2	Did screw Move?	Performed	Witnessed
1R					
2R					
3R					
4R					
5R					
6R					
7R					
8R					
1L					
2L					
3L					
4L					
5L					
6L					
7L					
8L					

M&TE Serial No.

Cal. Due Date

Sheet 1 of 1

POWER AND SIGNAL REMOVAL/REPLACEMENT DATA SHEET

[X] Safety Related/QC Holdpoints [ ] Non-Safety Related

NOTES

a. To install jumpers and/or lift wires, other than those directly associated with the equipment tag(s)/scheme number(s) listed on the Work Order, notify the Shift

b. Ensure that each lead (wire) is marked so it can be uniquely identified with its termination point.

c. Independent verification is only required on safety related equipment. Place N/A in independent verification block for non-safety related equipment.

d. If the worker leaves the immediate proximity of the work or the work is interrupted, complete and install a "Jumper and Lifted Wire" tag per 00306-C, "Temporary Jumper And Lifted Wire Control". Instead of Control Number use the Procedure number on the tag.

e. If holdpoints do not apply, NA QC Verification block.

f. If applicable, tags shall remain intact and will only be removed by the independent verifier.

		REMOVAL			RECONNECTION		
IDENTIFY LEADS LIFTED, JUMPERS INSTALLED, LINES OPEN, ETC.	LOCATION PANEL OR JUNCTION BOX	PERFORMED BY/DATE	INDEPENDENT VERIFICATION BY/DATE	QC VERIF. BY/DATE	PERFORMED BY/DATE	INDEPENDENT VERIFICATION BY/DATE	QC VERIF. BY/DATE
			N/A				

19003340

COMPLETION SHEET

PROCEDURE NO.	REVISION	SHEET
27598-C	0	1 of 4
TAG NO. 1-2403-64-002	DESCRIPTION Standby Diesel Generator	
SERIAL NO. 76022	MANUFACTURER Transamerica Delaval	MODEL DSRV-16-4
TEST EQUIPMENT USED See applicable "Data" Sheet	[ ] Safety Related/QC HoldPoints apply [ ] Non-Safety Related	

PROCEDURE STEP	DESCRIPTION	MAINT. INIT/DATE	HOLD POINT (Yes/No)	QC INIT/DATE
4.1	Verify Prerequisites met	[illegible] 7-18-90	No	[illegible] 7/18/90
4.2	Shift Supervisor Notified	[illegible] 7-18-90		
4.3	Diesel Generator Isolated and Tagged	[illegible] 7-18-90		
4.6.2b through d	Measure Air Start Valve Cap to Piston Clearance "Data" Sheet 1, Sheet 2	[illegible] 7-18-90	Q.C. HOLD POINT	[illegible] *1 7/18/90
4.6.2e	Inspect Air Start Valve Internals "Data" Sheet 1, Sheet 2	N/A *1	Q.C. HOLD POINT	N/A WRP 7/19/90 *1
4.6.2f	Inspect Air Start Valve Seat For Pitting "Data" Sheet 1, Sheet 3	N/A *1	Q.C. HOLD POINT	N/A WRP 7/19/90 *1
4.6.2h	Blue Air Start Valve "Data" Sheet 1, Sheet 3	N/A *1 7/19/90		N/A *1

* Document on Referenced "Data" Sheet

PROCEDURE STEP	DESCRIPTION	MAINT. INIT/DATE	HOLD POINT (Yes/No)	QC INIT/DATE
4.6.3	Air Start Valves Reassembled			
	1R	* See Comments	Q.C. HOLD POINT	WRP 7/18/90
	2R	MWB 7-17-1990		
	3R			
	4R			
	5R			
	6R			
	7R			
	8R			
	1L			
	2L			
	3L			
	4L			
	5L			
	6L			
	7L			
	8L	MWB 7-17-90		WRP 7/18/90
4.7.2	Valve To Head Gasket Installed			
	1R		~~Q.C.~~ N/A HOLD POINT	WRP 7/18/90
	2R			
	3R			
	4R			
	5R			
	6R			
	7R			
	8R			
	1L			
	2L			
	3L			
	4L			
	5L			
	6L			
	7L			
	8L			
4.7.4	Air Start Valve Capscrews Inspected "Data" Sheet 1, Sheet 3	N/A * / DAS 7-19-90 DW 7-19-90	~~Q.C.~~ N/A HOLD POINT	WRP * / 7/18/90
4.7.6	Air Start Valve Capscrews Torqued - "Data" Sheet 1, Sheet 3	DAS * / 7-19-90	Q.C. HOLD POINT	WRP * / 7/18/90

* Document or Referenced "Data" Sheet

PROCEDURE STEP	DESCRIPTION	MAINT. INIT/DATE	HOLD POINT (Yes/No)	QC INIT/DATE
4.7.7	Air Start Valve Capscrews Retorqued every 8 hours of engine operation "Data" Sheet 2	N/A 1-19-90	~~Q.C. HOLD POINT~~	N/A 1/19/90
4.7.9h	Torque Rocker Arm Capscrews "Data" Sheet 1, Sheet 4	N/A 1/19/90		*/
4.7.10	Adjust Intake And Exhaust valves			
	1R	N/A		/
	2R			/
	3R			/
	4R			/
	5R			/
	6R			/
	7R			/
	8R			/
	1L			/
	2L			/
	3L			/
	4L			/
	5L			/
	6L			/
	7L			/
	8L			/
4.7.11	Tools removed from engine	N/A 1/19/90		/
4.7.12	Cylinder head covers installed	N/A 1/19/90		/
4.7.13	Main Bearing Oil Lines installed	N/A 1/19/90		/
4.9	Notify Shift Supervisor required maintenance is complete	N/A 1-19-90	N/A	N/A 1/19/90

* Document on Referenced "Data" Sheet

PROCEDURE NO.	REVISION	PAGE NO.
VEGP 27598-C	0	31 of 31

COMMENTS/ADDITIONAL HOLD POINTS: IR# 35207, WR#, 7/19/96

* Only Cage and Pin were removed from assembled

** 4.7.6 SIGNED AFTER THE FACT BASED ON INSPECTION REPORT 35207

QC has reviewed this procedure for hold points [signature] 7/19/96
Signature

APPROVED (✓) DISAPPROVED ( )	
FOREMAN	DATE
[signature]	7-19-96

COMPLETED BY	DATE
[signature] for [signature]	7-19-96

AEGP QUALITY CONTROL

QC HOLD / WITNESS POINTS

ASCO-C FIG. PAGE 1 OF 1

MWO No: 19003540

PROCEDURE & REV No: N/P

NOTIFY QUALITY CONTROL PRIOR TO PERFORMING THE WORK ACTIVITY OR STEP ASSOCIATED WITH THE HOLD (H) OR WITNESS (W) POINT

DO NOT BYPASS QC HOLD OR WITNESS POINTS

STEP No.	H/W	HOLD POINT / WITNESS POINT DESCRIPTION	ASSIGNED BY INIT	ASSIGNED BY DATE	NOTIFIED INIT	NOTIFIED DATE	QC ACTION INIT	QC ACTION I-W-N/A
1	H	RETURN MWO TO QC UP	Leb	7/10/90	WRP	7/19/90	WRP	*
		IF REVISED FOR ASSIGNMENT OF ADDITIONAL HOLD POINTS	/	/				

COMMENTS & IR NUMBERS: (initial and date entries)

* assigned one hold point to sect 2 of MWO WRP 7/19/90

THIS FORM TO BE COMPLETED BY QUALITY CONTROL PERSONNEL ONLY

Quality Control Inspection Report

VOGTLE GENERATING PLANT—UNITS 1 & 2 35207

Georgia Power

Page 1 of 1

MWO/ODR/DR No.	Building	Procedure/Spec. No./Rev.
19003340	UNIT 1 DIESEL MAINT BLDG	27543-C, R/0
Room No./Level No. WAP 7/13/90 ~~N/A~~ B-Train	Sys./Start-Up Designator 2403	Tag No. 1-2403-G4-002
Drawing No./Rev. N/A	Vendor Manual Log No. N/A	Other 85022-C, R/1

1. Inspector will use separate form for each completed inspection function(s) and insert original with work package, use continuation sheets when needed.
2. Use simple narrative type report procedure. Reference all applicable drawing numbers, specifications, special instructions, etc., connected with your inspection. Use sketches, when applicable, showing dimensions checked, alignment, physical location of defects found, etc. N/A all blocks not used.
3. Upon completion of the inspection activity, enter results below and sign and date.

Remarks Performed a visual examination for the following procedures steps 4.6.2b Verify x and y planes on inside of cap. 4.6.2c Verified x-y planes of piston. 4.6.2d verified clearances. See recorded measurements below. Checked caps and pistons for damage and cleanliness prior to reinstalling on air start valves. Checked mating surfaces and bolting for cleanliness and damage. 4.6.3 Verified reassembly. 4.7.6 Verified final torque of 150 FT/lbs. Work performed on this IR is for all Caps, valves and air valves.

MER# 90-10453, air start valves. M&TE# VP-3-2273, wrench, Cal Due Date 10/5/90

M&TE VP-3-2153, 2-3" Mic, Cal Due Date 10/2/90

Sketch

CAP ID	CAP X-X	CAP Y-Y	PISTON X-X	PISTON Y-Y	CLEARANCE
1R	2.250	2.250	2.247	2.247	0.003
1L	2.250	2.250	2.247	2.247	0.003
2R	2.250	2.250	2.247	2.247	0.003 (N5)
2L	2.250	2.250	2.247	2.247	0.003
3R	2.250	2.250	2.241	2.247	0.003 (N3)
3L	2.250	2.250	2.247	2.247	0.003
4R	2.250	2.250	2.247	2.247	0.003
4L	2.250	2.250	2.247	2.247	0.003
5R	2.250	2.250	2.247	2.247	0.003 (N4)
5L	2.250	2.250	2.247	2.247	0.003 (N6)
6R	2.250	2.250	2.247	2.247	0.003
6L	2.249	2.249	2.246	2.246	0.003

CAP ID	CAP X-X	CAP Y-Y	PISTON X-X	PISTON Y-Y	CLEARANCE
7R	2.250	2.250	2.247	2.247	0.003 (N1)
7L	2.249	2.249	2.246	2.246	0.003 (N2)
8R	2.250	2.250	2.247	2.247	0.003
8L	2.250	2.250	2.247	2.247	0.003

M&TE VP-3-2155, 2"-3" Mic, Cal Due Date 10/2/90

Inspection Results

☒ SAT. ☐ UNSAT—ODR/DR NO.(s):

705516A MC5191

Inspector W. R. Podhradsky Jr. Date 7/15/90

WHITE—Work Package CANARY—O.C. Supv PINK—Inspector

Quality Control Inspection Report

VOGTLE GENERATING PLANT—UNITS 1 & 2

35341

Georgia Power

Page 1 of 1

MWO/ODR/DR No.	Building	Procedure/Spec. No./Rev.
19003340	UNIT 1 DIESEL MAINT BLDG	27598-C, R10
Room No./Level No.	**Sys./Start-Up Designator**	**Tag No.**
B-Train	2403	1-2403-G4-002
Drawing No./Rev.	**Vendor Manual Log No.**	**Other**
N/A	N/A	85027-C, R1

1. Inspector will use separate form for each completed inspection function(s) and insert original with work package, use continuation sheets when needed.
2. Use simple narrative type report procedure. Reference all applicable drawing numbers, specifications, special instructions, etc., connected with your inspection. Use sketches, when applicable, showing dimensions checked, alignment, physical location of defects found, etc. N/A all blocks not used.
3. Upon completion of the inspection activity, enter results below and sign and date.

Remarks Performed the following visual examinations. Verified flatness of used cap ≤ 0.001". 4.6.2 b,c verified X & Y planes of cap and piston. See recorded measurements below. 4.6.2 d verified clearance. Checked cap & piston for damage & cleanliness prior to reinstalling. Checked mating surfaces and bolting for cleanliness and damage. 4.6.3 Verified reassembly. 4.7.6 Verified final torque of 150 FT/LBS.

M&TE VP-3-2406 granite surface plate, Cal Due Date 11/15/90
VP-3-2155, Mic 2"-3", Cal Due Date 10/2/90
VP-3-2273, Torque Wrench, Cal Due Date 10/5/90

Sketch

Cap
ID
2.250" X-X
2.250" Y-Y
WRP 3/19/90
Valve piston
OD
2.247" X-X
2.247" Y-Y

Clearance
0.003"

MER# 90-10453, air start valves

Inspection Results

☒ SAT. ☐ UNSAT—ODR/DR NO.(s):

05516A MC5191

Inspector	Date
W.R. Podlesnik Jr.	7/19/90

Quality Control Inspection Report

VOGTLE GENERATING PLANT—UNITS 1 & 2

35002

Georgia Power

Page 1 of 1

MWO/ODR/DR No.	Building	Procedure/Spec. No./Rev.
19003340	Maint Shop	27598-C 1-10
Room No./Level No.	Sys./Start-Up Designator	Tag No.
NA	2403	1-2403-G4-002
Drawing No./Rev.	Vendor Manual Log No.	Other
NA	NA	85022-C 24, Block 23

1. Inspector will use separate form for each completed inspection function(s) and insert original with work package, use continuation sheets when needed.
2. Use simple narrative type report procedure. Reference all applicable drawing numbers, specifications, special instructions, etc., connected with your inspection. Use sketches, when applicable, showing dimensions checked, alignment, physical location of defects found, etc. N/A all blocks not used.
3. Upon completion of the inspection activity, enter results below and sign and date.

Remarks

Method Of Inspection Visual

Verified Factors Of 8 New As Start Valve Caps, Verified Factors Of 2 Used As Start Valve Caps. 6 New Caps Acceptable As Marked As Such. 2 New Caps Have .002" - .035" Gap 2 Used Caps Have .002" to .035" Gap. NITE Visual - Gramata Surface Plate VP-3-2406

CDD 11.5.94

N.E.R. 90-10453

Sketch N/S

Inspection Results

☐ SAT ☑ UNSAT—ODR/DR NO.(s): 19003340

Inspector	Date
DC Lewis	7.18.90

705516A MCS191

Quality Control Inspection Report

VOGTLE GENERATING PLANT—UNITS 1 & 2 33500

Georgia Power

Page 1 of 1

MWO/ODR/DR No.	Building	Procedure/Spec. No./Rev.
1202240	Main Steam	27378-C 2/C
Room No./Level No.	Sys./Start-Up Designator	Tag No.
N/A	2469	1-2469-64-002
Drawing No./Rev.	Vendor Manual Log No.	Other
N/A.	N/A.	85022-C 2/1

1. Inspector will use separate form for each completed inspection function(s) and insert original with work package, use continuation sheets when needed.
2. Use simple narrative type report procedure. Reference all applicable drawing numbers, specifications, special instructions, etc., connected with your inspection. Use sketches, when applicable, showing dimensions checked, alignment, physical location of defects found, etc. N/A all blocks not used.
3. Upon completion of the inspection activity, enter results below and sign and date.

Remarks

Method of inspection Visual

Verified Flatness of 4360 Air Start Valve Caps. 10 Caps are acceptable, These Valve-Caps were marked as following

2BE - 4BE - 4B2

2B6 - 4B6 - 4B1 These Caps gap is .001" or less

2B4 - 4B4

2B1 - 4B3

Other Caps had a gap of .0025" to .0045"

N/A used Granite Surface-Plate VP-2466 Cal 11-15-90

Sketch

N/A

Inspection Results

☒ SAT. ☐ UNSAT—ODR/DR NO.(s):

705516A MCS191

Inspector C. W. Brown Date 7/20/92

WHITE—Work Package CANARY—Q.C. Supv. PINK—Inspector

Quality Control Inspection Report

VOGTLE GENERATING PLANT—UNITS 1 & 2

35217

Georgia Power

Page 1 of 1

MWO/ODR/DR No.	Building	Procedure/Spec. No./Rev.
19003340	MAINT Shop	52022-C 4/ 85020-C 6/
Room No./Level No. N/A	Sys./Start-Up Designator 2403	Tag No. 1-2403-G4-002
Drawing No./Rev. N/A	Vendor Manual Log No. N/A	Other MWO INSTRUCTIONS

1. Inspector will use separate form for each completed inspection function(s) and insert original with work package, use continuation sheets when needed.
2. Use simple narrative type report procedure. Reference all applicable drawing numbers, specifications, special instructions, etc., connected with your inspection. Use sketches, when applicable, showing dimensions checked, alignment, physical location of defects found, etc. N/A all blocks not used.
3. Upon completion of the inspection activity, enter results below and sign and date.

Remarks

Method of inspection: Used Verified minimum inside bore of air start valve caps as follows

Identification: Bore:

N3	2.250"
N1	2.250"
N2	2.249"
N4	2.250"
N5	2.250"
N6	2.250"

Sketch

M & TE VP-3-2155 DUE 10-2-90

THIS REPORT IS FOR INFORMATION FOR THE PURPOSE OF MATCHING CAP TO PISTON AND RECORDING FINAL CLEARANCE AT A LATER TIME.

Inspection Results

☐ SAT. N/A SAT 9/10/90 ☐ UNSAT—ODR/DR NO.(s).

705516A MC5191

Inspector [signature] Date 9/10/90

Georgia Power

Page 1 of 1

Procedure/Spec. No./Rev.	27578-C, R/0
Tag No.	1-2403-G4-002
Other	85022-C, R/1

... and insert original with work package,

... drawing numbers, specifications, special ... applicable, showing dimensions checked, ... not used

... and sign and date

... for the following ceps

... with IE# 35217

Date 7/18/90

EQ EVALUATION CHECKLIST

FOR USE ON PROJECT CLASSES Q111, Q212, Q313, Q013, Q015, Q11E, Q11J, Q12E, 61J

MWO NO. 19003340

SECTION I

PART A ORIGINAL PART

1. DESCRIPTION D.G.
2. TAG NO. 1240364002
3. PROJECT CLASS 015
4. SPECIFICATION (EQDP) NO. X9AK01
5. MANUFACTURER DELAVAL
6. MODEL NO. _____
7. PART NO. _____

PART B REPLACEMENT PART

1. DESCRIPTION _____
2. MEK NO. _____
3. STOCK NO. _____
4. SPECIFICATION (EQDP) NO. _____
5. MANUFACTURER N/A SEE ATTACHED SHEET
6. MODEL NO. _____
7. PART NO. _____
8. PO NO. _____

COMMENTS _____

SECTION II WORK PLANNING

1. ARE PROCEDURES, VENDOR MANUALS, DRAWINGS OR INSTRUCTIONS AVAILABLE TO DISASSEMBLE/REWORK COMPONENT? ✓ YES ___ NO — CSP / 7/18/90 (Init. Date)
2. ARE SPECIFICATION NUMBERS FOR ORIGINAL AND REPLACEMENT ITEMS THE SAME? X YES ___ NO
3. ARE MANUFACTURER MODEL/PART NUMBERS OF THE ORIGINAL AND REPLACEMENT PARTS THE SAME? X YES ___ NO
4. IS BULK MATERIAL LISTED ON ATTACHMENT ACCEPTABLE? LIST ITEM NO. FROM ATTACHMENT IF "NO" IS CHECKED. ✓ YES ___ NO — (Item No.) — CAL / 7/19/90 (Init. Date)

NOTE

If items 2, 3, or 4 are checked No, the Checklist must be reviewed by the EQ Group.

[X] PART(S) ARE ACCEPTABLE FOR USE
[ ] SEND TO EQ GROUP

WPG 7/19/90 DATE

SECTION III EQ GROUP EVALUATION

[ ] PART IS ACCEPTABLE FOR USE [ ] PART IS UNACCEPTABLE FOR USE

JUSTIFICATION FOR ACCEPTANCE:

EQ ENGINEER DATE

FIGURE 3

SHEET 2 OF 2

EQ EVALUATION CHECKLIST
FOR BULK MATERIAL

MWO NO 1900 3340

1. DESCRIPTION OF ITEM AIR START VALVE ASSEMBLY
   MER 90 10453 PO 2434, 25350, 2549, 5
2. DESCRIPTION OF ITEM AIR START VALVE ASSEMBLY
   MER 90-10532 PO PAV-481
3. DESCRIPTION OF ITEM _____
   MER _____ PO _____
4. DESCRIPTION OF ITEM _____
   MER _____ PO _____
5. DESCRIPTION OF ITEM _____
   MER _____ PO _____
6. DESCRIPTION OF ITEM _____
   MER _____ PO _____
7. DESCRIPTION OF ITEM _____
   MER _____ PO _____
8. DESCRIPTION OF ITEM _____
   MER _____ PO _____

REMARKS: ITEMS BOUGHT SPECIFICALLY FOR DIESELS

FIGURE 3 (CONT'D.)

Material/Equipment Request—NUCLEAR OPERATIONS
VOGTLE ELECTRIC GENERATING PLANT

Q mwp 7-18-90

COPY 2

Department/Contractor	Design Change No.	Date	Stores Register No.
MEOP		7-18-90	JUL 1 8 '90 0453

Description/Tag	Stock Number	Location	Quantity Ord.	Filled	U/M	P.O. No.	MIR No.	Maint. Work Order	Unit	Account Number	Resp. Center	Anly. Code
Valve, Gate, Std, Assembly, AN-37983	29060-6512	D-62-A	4	2	Ea.	AW #NB 99239	87 0881	1506333, 3340				
" " AN-64219	"	D-72-A	4	2	Ea.	AW #2 25350	88 0545					
" " AN-38850	"	D-62-A	2	2	EA.	AW #NB 99239	87 1120					
" " AN-3353	"	D-72-A	2	2	EA.	CWE #0 259175	2599 75					

Ordered By	Approved By	Filed By	Received By	Date
MW Goldsmith	MW Goldsmith	David Bo	MW Goldsmith	7-18-90

598 MCS122

Material/Equipment Request—NUCLEAR OPERATIONS
VOGTLE ELECTRIC GENERATING PLANT

Q J.M F
7-19-90

COPY 2

Department/Contractor	Design Change No.	Date	Stores Register No.
Maint			Ja 1990010532

Description/Tag	Stock Number	Location	Quantity Ord.	Quantity Filled	Quantity U/M	P.O. No.	MIR No.	Maint. Work Order	Unit	Account Number	Resp. Center	Anly. Code
Valve, Air Start (7327)	29060 6512	D-88-4	1	1	EA	TA-481	105165	9900359				

Ordered By	Approved By	Filled By	Received By	Date
J. M. Flanders	RA Mullinax	RA Hoge	J. M. Flanders	7-19-90

6898 MCS122

Left Bank AIR START - (8L) Good
(7L) Failure
(6-L) Good
(5-L) Good
(4-L) Failure
(3-L) Good
(2-L) Failure
(1-L) Failure

Right Bank Air Starts - (8R) Failure
(7R) Failure
(6R) Failure
(5R) Failure
(4R Good
(3R) Good
(2R) Failure
(1R) Failure

VEGP FIRE PROTECTION CHECKLIST

1. MWO NO. 9003345 2. MPL/TAG NO. 1240364002
3. LOCATION D.G. "B" TRAIN

4. WILL THE WORK INSTALL, IMPAIR, MODIFY, ISOLATE, DEFEAT, OR REMOVE ANY OF THE FOLLOWING? IF THE ANSWER IS "YES" CHECK THE BOX, AND INDICATE APPROPRIATE DETAILS.

( ) SPRINKLER SYSTEM
( ) INTERIOR HOSE STATION
( ) HALON SYSTEM
( ) DETECTION SYSTEM
( ) EMERGENCY LIGHTING SYSTEM
( ) PERMANENT COMBUSTIBLES (CABLE, WOOD, PLASTIC, ETC.)
( ) STRUCTURAL STEEL, OR RACEWAY FIREPROOFING
( ) FIRE SUPPRESSION SUPPLY SYSTEM (PUMPS, TANKS, ETC.)
( ) CONDUIT SEALS OR EQUIPMENT ENCLOSURE (CABINET HOUSING)
( ) FIRE EXTINGUISHER
( ) COMMUNICATIONS SYSTEM
( ) RCP OIL COLLECTION SYSTEM
( ) SEISMIC STANDPIPE SYSTEM

5. WILL THE WORK DEFEAT, MODIFY OR IMPAIR ANY OF THE FOLLOWING FIRE SEPARATION FEATURES? IF THE ANSWER IS "YES" CHECK THE BOX, AND INDICATE APPROPRIATE DETAILS.

( ) A. FIRE AREA BOUNDARY (WALL, ETC.)
( ) B. PASSIVE AREA BOUNDARY PENETRATION SEAL ASSEMBLY.
PENETRATION SEAL
WALL BLOCKOUT
FLOOR PLUG OR HATCH
CABLE TRAY OR CONDUIT WRAP
RADIANT ENERGY SHIELD
( ) C. ACTIVE FIRE AREA BOUNDARY PENETRATION SEAL.
FIRE DOOR
FIRE DAMPER

6. IF ALL THE ANSWERS IN BLOCKS 4 and 5 ARE "NO", STOP THE EVALUATION HERE, AND ENTER "NO" IN BLOCK 11 OF THE MWO FORM.
IF ANY QUESTIONS WERE ANSWERED "YES", ENTER "YES" IN BLOCK 11 OF THE MWO FORM.
EVALUATOR [signature] DATE 7/18/95

POST WORK REVIEW (COMPLETE "A, B, OR C" BELOW)

(A) THE CONDITION IMPACTING THE FIRE PROTECTION COMPONENTS LISTED ABOVE HAS BEEN REMOVED. FPE _____ DATE _____

N/A

(B) THE FIRE PROTECTION COMPONENT IS STILL IMPAIRED.
FPE _____ DATE _____

(C) RESTORATION OF THE IMPAIRMENT HAS BEEN TRANSFERRED (Ref: _____) AND THE FIRE PROTECTION LCO LOG HAS BEEN CHANGED TO REFERENCE THE NEW MWO FOR THIS IMPAIRMENT. FPE _____ DATE _____

FIGURE 1