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Vogtle Electric Generating Plant NUCLEAR OPERATIONS

Unit COMMON

A

Georgia Power

Procedure No.	-
27563-C	
Revision No.	-
2	
Page No.	-

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05-25-90

## GENERATOR AND ENGINE CONTROL PANEL FUNCTIONAL TEST PROCEDURE

REV.	REASONS FOR REVISTOR	and an appropriate to the second
0	New Procedure	DATE
I	REASONS FOR REVISION New Procedure Correct Typos Correct Typos, Correct completion Sheet	11/02/89
2	COTTON	102/20/90
	Sheet completion	1
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PROCEDURE NO	Paradan and Language and Company	Inc	
VEGP	27563-C	REVISION	PAGE NO.
	2/202-0	2	2 of 75
1.0	PURPOSE		
	The purpose system funct verify the c	of this procedure is to ions. This procedure a alibration of the device	o verify the control is not intended to ces within the panel.
2 0	PRECAUTIONS .	AND LIMITATIONS	
211	If only port	ions of the procedure a	are required.
2,1.1		Maintenance Foreman.	
2.1.2		steps that apply.	
2,1.3	Document the	steps used in the comm or "Data" sheet.	ents section of the
2,1.4	N/A the steps	that were not used.	
2,2		Procedure may be now for	ormed out of
2.2.1	With prior ap	proval of the Maintenan	nce Foreman.
2.2.2	If they do no	t violate the intent of	f the Procedure.
2.2.3	Are documented "Completion"	d in the "Commonte"	ction of the
2.3	Maintenance an 21427-C, "Main Control".	rea cleanliness in accontenance Cleanliness An	ordance with Procedure ad Housekeeping
3.0	PREREQUISITES	AND INITIAL CONDITIONS	
3.1		ning work, notify QC i	
3,1.1		e indicated on the "Co	
3.1.2	The MWO/Work P	ackage has a QC hold p	oint
3,2		ressure must be availal	
3,3	AC and DC powe	r to the panel must be	available
3.4		the engine is isolated	

OCEDURE NO			REVISION		PAS	ENO
VEGP	27563	- C		2		3 of 75
<b>1</b> 5	DG bre	aker	is racke	d out to p	revent inad	vertent
3.6	Local/	Remot	e switch	is in the	remote pos	ition
3.7		tarti				low alarm set
6.0	TEST S	ET-UP	MAINTENA	ANCE MODE A	AND ENGINE	ROLL CHECKOUT
4 1	TEST S				CONTRACTOR OF THE PROPERTY OF	Commence of the Control of the Contr
4.1.1	Verify been m	all p	rerequis	ites and I	nitial cond	iitions have
411.2	Notify	Shift	supervi	sor of wor	k to be per	formed.
41.3	Co. Sept. on the	101 C 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	pplicabl cordance d taggin	W L U D TO TO CO.	t is fully edure 00304	isolated and -C, "Equipmen
4.2.4	Disconr from th	nect a ne equ	nd lift ipment a	instrument s required	, control a	nd power lead
	a. En	sure i	each wir y identi	e is marked	d so that i	t can be tion point.
	b. Re	cord rminar	their rep	noval by w	re number	
	nu					ner than those on the Work
	(1	) Not	ify Shif	t wis	or.	
	(2			his instr		

NOTE

The following procedural steps are intended to prepare the engine control system for actual functional tests. All numbers shown in ( ) are wire numbers.

PROCEDURE NO	TANDES CONTRACTOR OF THE SAME	The sales of the s	
VEGP	27563-C	REVISION 2	PAGE NO
VARIOUS DE COMO MOS DESERVAÇÃOS ESCA	- A soft fill with a target of the second test to the second test to the second	A contract the second s	4 of 75
45.1	19875.6.4	Pressure Lube Oil":	
* //9	panel and ca	incoming tubing at bulkhers bulkhers bulkhers fitting.	ad fitting FlO-A in
4 . 5 . 2	The second secon	ncoming tubing at bulkher bulkher bulkhead fitting.	ad fitting E-10B in
4.1.5.3	Disconnect i panel and ca	ncoming tubing at bulkhe p bulkhead fitting.	ad fitting E-10C in
4.1.6	Trip - "Low	Pressure Turbocharger Lu	be oil";
4.3.6.1	Disconnect i	ncoming tubing at bulkhe p bulkhead fitting.	
4.12.7	Trip - "Low !	Pressure Jacket Water";	
4.1.7.1	Disconnect in panel and cap	ncoming tubing at bulkher p bulkhead fitting.	ad fitting E-14 in
4.1.8	Open the fol:	lowing sliding link termi	inals:
4.1%8.1 */**	A-Bank Starti	ing Air Valve. (4) and E4 (2).	
4.1.8.2	B-Bank Starti Terminals L5	ing Air Valve. (105) and L4 (102).	
4.1.8.3	Field Flash, Terminals Eig	Exciter Reg Enable. (53), E22 (56), E17 (51	), and E21 (55).
4.1.8.4	Preset V.R. a	nd Gov.: (57), E18 (52), and E24	
4.1.8.5 */*	Ready to Load		
4.1.8.6	Res to Load Te inals E57	, HVAC Sys.: (46) and E58 (47).	
4.1.8.7	Ready to Load	, Spare. (48) and E60 (49).	
4.1.8.8	Start, Spare.	(73) and F2 (74).	

4.8.9 Stop, Spare.

\*/8 Terminals F3 (75) and F4 (76).

\*.1.8.10 Pre-position Gov and V.R. Terminals L30 (170) and L31 (171).

4.128.11 186C Trip Pelay Terminals L32 (172) and L33 (173).

4.1.8.12 Field Flash, Exciter Reg Enable. \*/\*\*\* Terminals L23 (153), L20 (141), L21 (144), and L24 (155).

4.1 8.13 Trip 52G. \*/\* Terminals L51 (159) and L52 (160).

4.1.8.14 Emergency Stop. \*/\* Terminals L53 (164) and L54 (165).

4.1.8.15 Running, Spare.

1/48 Terminals L55 (166) and L56 (167).

4.1.8.16 Running, Spare. \*/\*\* Terminals L57 (168) and L58 (169).

4.18.17 Overspeed, Spare. \*/n Terminals L59 (179) and L60 (180).

4.1.8.18 Running W/Delay. \*/\* Terminals L35 (175) and L36 (176).

4.1.8.19 Ready to Load - HVAC System. \*/\* Terminals L9 (137) and L10 (138).

4.1.8.20 Ready to Load - Spare. \*/\* Terminals L11 (139) and L12 (140).

4.1.8.21 Emergancy Stop. \*/\* Terminals L14 (336) and L15 (337).

4.1.8.22 ERF Computer. \*/\* Thrminals L49 (S4B1) and L50 (S4B2).

4.11.8.23 Emergency Stop Annunciation. \*/\*\* Terminals L25 (79-180) and L26 (90-180).

4.1.8.24 CC Fan #1. \*/\*: Terminals C3 (244) and C9 (245).

PROCEDURE NO	tion of AAAA and the State of	REVISION		NAMES AND POST OFFICE ADDRESS OF THE PERSONS ASSESSMENT	
VESP	27563-C	100000	2	PAGENO	7 of 75
4.1.10 4.1.10.1	At on-engin	rting Air V ne "EJBA" J ' 4 and tap	alve; unction Box, e wire end.	disconnec	t engine
4.1.11	B-Bank Star				
4-1.11.1	At on-engin	e "EJBB" J	anction Box, ape wire end	disconnect	engine
4.V.12			t breakers		
4,1.13	Verify 60 p	si at contr	ol air pres	sure gauge.	
4 . 1 . 14 */**	Verify 125 CB-3 and CB	dc across	circuit brea	akers CB-1	and CB-2,
4.1.15	Manual Permi	Issive Star	t - "A" Side		
4.1.15.1	Jumper termi	inals E49 (	3) and E50 (	11).	
4 4.16			t - "B" Side		
42.16.1	Jumper termi	nals L37 (	106) and L42	(110).	
4.2	MAINTENANCE				
4.2.1	Jumper termi permissive f	nals L45 (	1011 and 7:0		ntrol Room
4.2.2	Lockout Alar				
4.2.2.1 */*	Disconnect j (286) and ve	umper acros	s terminals	H4 (278) 8	and H12
4.2.2.2 */*	Open contact	across ter	winals H3 (	277) and H4	(278).
4.2.2.3 */*	Open contact	across ter	minals H9 (	283) and H1	0 (284).
4.2.2.4 */*	Open contact	across ter	minala Hll (	(285) and H	12 (286).
4.2.2.5	Contact closu (288).	ire across	terminals HI	3 (287) an	d H14
4.2.2.6 */*	Contact closu (290).	ire across	terminals H1	5 (289) an	d 1116

PROCEDURE NO.	AND THE PROPERTY OF THE PROPER
VEGP	27563-C 2 PEVISION 2 PAGE NO 8 of 75
	and the second s
4.2.3	Depress maintenance mode pushbutton and verify:
4.2.3.1	
4.2.3.2 */*	Maintenance lockout alarm is energized.
4.2.3.3	Unit available emergency status light is deenergized.
4.2.3.4	Group I pressure gauge indicates 0 psi.
4.2.3.5 */*	The engine barring device lockout pin can be removed.
4.2.3.6	The stopping light is energized.
4.2.3.7	Contact closure across terminals B21 (565) and B22 (566).
4.2.3.8	Convact closure across terminals H3 (277) and H4 (278).
4.2.3.9 */*	Contact closure across terminals H9 (283) and H10 (284).
4.2.3.10 */*	Contact closure across terminals H11 (285) and H12 (285).
4.2.3.11 */*	Open contact across terminals H/3 (287) and H14 (288).
4.2.3.12 */*	Open contact across terminals H15 (289) and H16 (290).
4.2.4	Reconnect jumper across H4 (278) and H12 (286).
4.2.5	Push engine roll pushbutton and verify:
4.2.5.1 */*	125 vdc across terminal E4 (2) and E5 (4), "A" side starting valve.
4.2.6	Push normal start pushbutton and verify:
4.2.6.1	No voltage across terminals E4 (2) and E5 (4), "A" side starting air valve.

A CL TOWNE NO	C MANAGEMENT CHANGE AND CONTRACTOR OF THE PARTY AND ADDRESS OF THE PARTY ADDRESS OF THE PARTY ADDRESS OF THE PARTY ADDRESS OF THE PARTY ADDRESS OF	TREVISION	energence
VEGP	275e3-C		PAGE NO
The state of the s		2	9 of 75
4.2.6.2	No voltage	scross terminals L4 (10 ng sir valve.	2) and L5 (105), "B"
4.2.7	Disconnect v	vire 564 (tape wire) at	PS-46N and verify:
4.2.7.1	Relay R35 is	de-energized.	
4.2.7.2	Open contact	across terminals B21	(565) and 822 (566).
4,2.7.3	Maintenance	lockout alarm is de-en	ergized.
4.2.8	Release engi	ne barring device and	verify:
4.2.8.1		ce engaged alarm energ	
4.2.8.2 */*	Contact close (591).	ure across terminals B	27 (590) and B28
4.2.8.3	Relay R35 is	energized.	
4.2.9	Push return	to operational pushbutt	on:
4.2.9.1		roll pushbutton and ver	
4.2.9.1.1 */*		ss terminals E4 (2) and	
4.2.9.2	Push normal s	start pushbutton and ve	rify:
		cross terminals E4 (2)	
4.2.9.2.2	No voltage ac side starting	ross terminals L4 (102	) and L5 (105), "B"
4.2.10	Lockout engin	e barring device and v	erify:
4.2.10.1	(4.8-7	e engaged alarm is de-	
4.2.10.2	Open contact	across terminals B27 (	590) and B28 (591).

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PROCEDURE NO.	THE RESERVE OF THE PARTY OF THE	REVISION	And the second designation of the second second second second	
VEGP	27563-C	2	PAGE NO	
PERSONAL PROPERTY AND ADDRESS OF THE PARTY O	THE RESIDENCE OF THE PARTY AND THE	Acres and a superior		10 of 75
				Pall year
4.2.10.3	Relay R35 1	s de-energized.		
4.2.11	Reconnect w Maintenance	ire 564 at pressure lockout alarm and	switch PS-461 verify:	N,
4.2.11.1 */*	Relay R35 1	s energized.		
4.2.11.2	Maintenance	Lockout slarm is e	nergized.	
4.2.12	Push return	to operational pus	hbutton and ve	rify:
4.2.12.1		lown cylinder is re		
4.2.12.2 */*	Group I pres	sure gauge indicate	es 60 psi.	
4.2.12.3 */#	Maintenance	lockout alarm is de	e-energized.	
4.2.12.4	Unit availab	le emergency status	light is ene	rgized.
4.2.12.5 */*	The ergine be position.	arring device locks	out pin is in	the locked
4.2.12.6	The stopping	light is de-energi	zed.	
4.2.12.7	Ensure barrir	ng device is retrac	ted.	
4.2.12.8	Locking pin i	installed.		٤
4.2.13	Push engine r	coll pushbutton and	varify:	
4.2.13.1 */*		ross terminals FA		, "A" side
4.2.14	Open circuit	breakers CB-1 and	CB-2 and verif	v :
4.2.14.1	No voltage ac	ross solenoid valve wer Solenoid), wire		
4.2.14.2		ilable light is de-		

PROCEDURE NO	A COUNTY AND ADDRESS OF THE PARTY OF THE PAR	REVISION	The state of the s	the section of the se
VEGP	27563-C		2	11 of 75
	TO THE REPORT OF THE PARTY OF T		PERSONAL SERVICE SERVI	1.1 OI /5
4.2.14.	3 Engine cont energized.	rol panel	"A" failure	(pos 8-2) alarm is
4.2.14. */*	4 Contact clo (467).	sure acros	s terminals	A17 (466) and A18
4.2.15	Remove time	r TD-1B fr	om relay so	cket, field flash
4.2.16	Push normal	start pus!	n button an	d verify.
4.2.16.1 */*		oss termina	Te TA (102	\ 1 to
4.2.16.2 */*				zed after 5 seconds.
6.2.16.3 */*	Relay R1 is	de-energiz	ed.	
4.2.16.4 #/#	Contact clos	ure across	terminals	H7 (281) and H8 (282)
4.2.16.5	Contact clos	ure across	terminals	K33 (581) and K34
4.2.16.6	Relay R35 is	energized		
4.2.16.7	Horn is energ	gized.		
4.2.17	Push the annu pushbutton ar	inciator sind verify:	lent, ackn	owledge and reset
4.2.17.1	Horn is de-er			
4.2.17.2	Open contact	across ter	minals H7	(281) and H8 (282).
	Kelay R35 is			
4.2.17.4	Failed to sta	rt alarm i	s de-energi	zed.
.2.18	Connect frequence (119). Put within 5 second and verify:	ency gener sh normal nds turn o	ator to ter start pushb	minals L7 (118) and outton again and to 490 Hz (450 RPM)

PROCEDURE NO	CONTAIN THE RESIDENCE AND A SECRET CONTRACTOR OF THE PROPERTY	TREVISION	
VEGP	27563×C	2	12 of 75
		al tractical contract contracts of the contract for an extendition that a larger representation is	
4.2.18.1		sure across terminals L approx. 60 sec delay.	35 (175) and L36
4.2.18.2 */*	Contact clos (173) after	sure across terminals L approx. 60 sec delay.	32 (172) and L33
4.2.18.3		Cross terminal 14 /102	
4.2.18.4	Contact clos	ure across terminals L	55 (166) and L56
4.2.18.5	Open contact	across terminals L57	(168) and L58 (169).
4.2.18.6	Unit running	light is energized.	
4.2.18.7	Failed to sta	art alarm remains de-en	nergized.
4.2.18.8	Closure acros	ss terminals L23 (153) re switch.	and L21 (144), field
4.2.18.9 */*	Open circuit exciter reg e	across terminal L24 (1	55) and L23 (153).
4.2.18.10	Contact closu (S4B2), ERF c	re across terminals L4	9 (S4B1) and L50
4.2.18.11 */*	Relays R1, R1	AUX1, R2, R2AUX2 and R	8 are energized.
4.2.18.12 */*	Contact closu	re across terminals C3	(244) and C9 (245),
4.2.18.13 */*	Contact closu (247), CC Fan	re across terminals C5	(246) and C11
4.2.18.14	Contact closu	re across terminals G3	(253) and G4 (254).
4.2.18.15	Contact closus	re across cerminals G5	(255) and G6 (256).
4.2.18.16	Open contact a	across terminals G7 (25	57) and G8 (258).
4.2.18.17	Open contact a	across terminals G9 (25	9) and G10 (260).

PROCEDURE NO.	ACT APPLY BOTH CASE ADMINISTRATION AND ADMINISTRATION AND ADMINISTRATION OF THE PARTY AND ADMINISTRATION ADMINISTRATION ADMINISTRATION AND ADMINISTRATION ADMINISTRATION ADMINISTRATION AND ADMINISTRATION	REVISION	THE REAL PROPERTY AND ADDRESS OF THE PERSON NAMED IN	
VEGP	27563-C	THE TOTAL	2	13 of 75
	THE RESERVE OF THE PARTY OF THE	A STATE OF THE PARTY OF THE PAR	Mintel - Approximate to Approximate the Approx	
4.2.18.18	Open contact	across te	rminals G11 (	261) and G12 (262).
4.2.18.19	Contact close (264),	ure across	terminals G1	3 (263) and GG14
4.2.18.20	Contact close (266).	ure across	terminals G1	5 (265) and 0016
4.2.18.21	Contact closu (268).	ire across	terminals GI	7 (267) and GM18
4.2.18.22 */*	Open contact	across ter	rminals G19 (	269) and G20 (270).
4.2.18.23 */*	Open contact	across ter	minals G21 (2	271) and G22 (272).
4.2.18.24 (	Open contact	across ter	minals G23 (2	73) and G24 (274).
4.2.19 */*	oush Maintena	nce Pushbu	tton and veri	fy:
4.2.19.1 N	faintenance m	ode alarm	remains de-en	ergized.
4.2.20 F	ush local strength	op push bu verify:	tron and turn	off frequesmcy
4.2.20.1 O */*	pen circuit , ield flash p	across tem ressure sw	ninals L23 (1	53) and L21 (144),
4.2.20.2 E	ngine shutdov here is no as	wn cylinder ir leakage	r is extended at the pneum	and verify that atic cylindeer.
4.2.20.3 A		120 sec. 3	periiv angina	shutdown crylinder
4.2.20.4 0	pen contact a	eross term	ninals L55 (1)	66) and L56 (167).
4.2.20.5	Concact c (169).	losure acr	oss terminal:	s L57 (168) and L58
4.2.20.6	Unit runn	ing light	is de-energi:	ed.
4.2.20.7	Open cont (176).	act across	terminals L3	35 (175) ared L36

VEGP 27		REVISION	PAGENO	A COMPANY OF THE STREET, M. L. STREET, ST.
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			THE STREET PERSONS ASSESSED FOR THE PARTY OF	
4.2.20.8 */*	Open co (173).	ontact across term	ninals L32 (172	2) and L33
4.2.20.9	Open co (S4B2),	entact across term	ninals L49 (S4)	31) and L50
4.2.21	Push ma	intenance pushbut	ton and verify	n
4.2.21.1		ance mode alarm :		
4.2.22	Push re	turn to operation	al pushbutton	and verify.
4.2.22.1 */*		ance mode alarm i		
4.2.23	Install timer.	timer TD-1B into	Relay Socket,	field flash
3021280F	Momenta:	rily jumper termi remote emergency	nals L37 (106) start and veri	and L43
4.8324.1 */	1.25 VDC	across terminals g air solenoid.		
4.2.24.2	Push ma:	Incenance mode pu	shbuttom and v	erify:
4.2 24.2.1 */		ance mode alarm i		
4.2.24.3 */*	Contact (144),	closure across t	erminals L23 (	153) and L21
4.2.24.4	Turn on 490 Hz). energize	frequency genera Check that rel ed, if not, manua	tor (setting says R1, R1A and lly set relays	hould be at d R2 are
4.2.24.5	Closure	across Terminals	1 23 /1521	
4.2.24.6		njection signal		ized.
4.2.24.7	Shutdown	system active 1	ight de-energi:	zed.
4 2.24.8	No volta	ge across terminair air solenoid.	al L4 (102) and	d L5 (105),

PROCEDURE NO.	-	REVISION		
VEGP 27	563-C	NET ISION	2	PAGE NO 15 of 75
1/*	Verify (104)1	jumper acts removed.	ross termina	als L37 (106) and L43
\$100 miles	Emerge	ncy start a	alarm is en	ergized.
4.2.24.11	Contact (602),	closure a	cross termi start remot	nals B33 (601) and E e annunciator.
4.2.24.12	Contact		cross termi	nals L22 (151) and L
4. System				and verify:
4.2.25.1				e-energized.
4.2.26	THE R. LEWIS CO., LANSING, MICH.	7 R. L. L. BETTIET 1	13 73 63 75 77 7 21 70 4 6	t bulkhead fitting tdown, after 60 24 above and verify:
4.2.26.1				below 25 psi.
4.2.26.2	Engine	shutdown c	vlinder is	not extended.
4.2.26.3	Trip his	gh temp lub	e oil alar	n is energized.
4.2.20.4.1 */*	The stop	pping light	is not ene	ergized.
4.2.26.5	Contact (427), t	closure ac	ross termin	als J9 (426) and J10 1 remote annunciator
4.2.26.6	Contact	closure actor pos 5-	ross cormin	als 6 and 7 at h temp lube oil,
4.2.27 ml */2	Re-conne E-18, hi	ct incomin gh temp lu	g tubing at be oil shut	bulkhead fitting down and verify:
*/*			auge reads	
*/*	Trip hig	h temp lub	e oil alarm	is de-energized.
4.2.27.3 */*	Open con (427), to	tact across	s terminals emp lube oi	J9 (426) and J10 1 remote annunciator.

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			The state of the s
4.2.27.4	Open co annunci	ntact across terminals 60 ator pos 5-1.	6 and 7 at
4.2.24%		set from loca pushbuttom d fitting E-92, trip low n off frequency generator	
4 2 28.1		oping light is energizeen	
4 . A. T. 27	Trip lov	Pressure turbo oil alaz	ern is energized.
4.2.28.3	Contact (458), T annuncia	closure across terminall rip low press turbo oill tor.	a J21 (457) and J22 remote
4.2.28.4	Contact annuncia spare co	closure across terminall tor pos 5-2, trip low pp ntact.	s 10 and 11 at ress turbo oil
4,2.28.51 */8	Engine s	hutdown cylinder is extr	ended.
4.2.29	Manually time, pu	transfer R10B relay coorsh maintenance pushbuttre	ntacts at the same on and verify:
4.2.29.1		nce mode alarm indication	
4.2.30	101 and 1 transmits	plug on bulkhead fitter turbo oil and jumper coo 23, ready to load, at ' er and jumper wires 1223 der voltage relay and v	B: side speed
4.2.30.1		1B is energized.	
4.2.30.1.1 */*	Contact c	losure across terminalls nning-HVAC system.	L9 (137) and 1.10
4.2.30.1.2× */*		losure across terminalls	Ll1 (139) and Ll2
4.2.30.1.3	Contact c	losure across terminalls dy to load - DG breakeer	F5 (77) and F6

PROCEDURE NO		REVISION	COLUMN TO A CONTRACTOR A COLUMN TO A COLUM	FAGEN	Ö	
VEGP 27	563+0		2			£ 75
1/4	Ready c	o load light	is energize	ed.		
* 47 30 . 2 M	TO COLOR A C	Remove jumper at SS3B contact, wires 101 and 123, ready to load at "B: side speed transmitter and remove jumper across wires 123 and 124 and verify:				
4.2.30.2.1	Open co	ntact across trunning-HVAC s	erminals L			
4.2.30.2.2 */*	Open co (140),	ntact across trunning-spare.	erminals L	11 (13	9) and 1	L12
4.2.30.2.3	Open corready to	ntact across to load-DG brea	erminals F	5 (77)	and F6	(78),
30.2.1 S	Ready to	load light i	s de-energ	ized.		
4.2.31	Release	Emergency Sta	rt Button and verify:	and tuz	n on	
4.2 31.1	No volts starting	ge across tem	minal L4 (	.02) an	d L5 (1	.05),
4.2131.2	Relay R5	B is energized	d.			
4.2.32	Trip ove	rspeed trip valuency generate	alves on er	ngine a	nd then	turn
\$.2.32.1 1 */*		3B is energize				
4.2.32.2	Contact (160), t	closure across	terminals	L51 (	159) an	d L52
4.2.32.3 */*	Contact (165), e	closure across mergency stop.	terminals	L53 (	164) an	d L54
4.2.32.4	Contact	closure across	terminals	L59 (	179) an	d L60
4.2.32.5	Contact (337), er	closure across mergency stop.	terminals	L14 (	336) an	d L15
4.2.32.6 M		stop light e				

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	The sto	pping light energice	ed.
4.2.32.8	Pressur	e at cylinder port o	of solenoid 3B.
4.2.32.9 */*	Unit ava	ailable emergency st	atus light is
4.2.32.9.1	Momentar 225 and	rily jumper pressure 226 and note no cha	switch PS-23N, wires nge in light status.
4,2 32.10		d trip alarm is ene	
4.2.32.11 */*	Contact (443), o	closure across term verspeed remote ann	inal A9 (442) and AlO unclator.
*/# 32.12M */#		5 is energized, loc	
4.1.32.12.1	Momentar and rese	ily open sliding lin t annunciator and ve	nk Fl1 (79) erify.
4.3.32.12.1.1		5 remains energized,	
4.2.32.12.1.2 */*	Disabled de-energ:	non-reset of emerge	ency trip alarm is
4.2.32.13	Push nors	mal start pushbuttor	and verify:
4.2.32.13.1	No voltag	ge across terminals arting air valve.	
6.2.32.13.2 */*	No voltag B-Bank st	e across terminals arting air valve.	L5 (105) and L4 (102),
4.2.33	Verify the	at break glass cove start pushbutton.	r is reinstalled on
4.2.34	Depress r	eset from 1.0CA push	button.
4.2735			located on engine and
4.2.35.1 */*	Open cont (180), ov	act across terminal erspeed-spare.	s L59 (179) and L60

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V Los F Z	563-C	4	19 of 75
*/*	Overspeed Trip	alarm is de-ener	gized.
4.2.35.3 A	Open contact ac	cross teerminals A	9 (442) and A10
6.2.36	Push emergency	stop reeset pushb	utton and wanter
4.2.36.1	Relay R23B is d	e-energaized.	accon and verify:
4.2.36.2	Open contact ac (160), trip 52G	ross teerminals L	51 (159) and L52
4.2.36.3 */*	Open contact ac (165), emergenc	ross teerminals L	53 (164) and L54
4.2.36.4	Open contact ac (337), emergenc	ross teerminals L.	14 (336) and L15
*/*		light llight de-en	nergized.
4.36.6	The stopping lig	ght de-energized.	
4.3.36.7		e-energaized, lock	
4.3.37	Jumper across to loss of offsite	erminalls L39 (101 power and verify	) and L38 (113),
4.2.37.1		tarminuals 14 am	
4.2.37.2		gnal Hight is en	ergized.
4.2.38	Remove jumper ac (113), loss of c	ross tterminals L ffsitee power and	39 (101) and L38
4.2.38.1		s terminals TA	
4.2.38.2		ngal Llight is de	-energized.
2.39	Manually transfe same time push e verify:	r R6B crelay cont mergermey stop re	acts and at the set button and

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PROCEDURE NO	THE RESERVE ASSESSMENT	REVISION	PAGE NO
VEGP 27	563-C	2	20 of 75
		The second secon	
4.2.39.1 */*	Contact (160).	t closure across termin	als L51 (159) and L52
2/2/39/20	Ralease relay o	e emergency stop reset 1 contacts and verify:	outton and then R6B
4.2.39.2.1	Relay R	123B is energized.	
4.2.39.2.2	Contact (160).	closure across termina	als L51 (159) and L52
4.2.39.2.3 */*	Contact (165).	closure across termina	ls L53 (164) and L54
272,403	Push em	ergency stop reset butt	on to reset relay
14.2.41.38	Push eme	ergency stop pushbutton	and woulder
\$7×42.750		d non-reset of emergence	
4.2.41.2 * '*	Contact (504), 6	closure across termina emergency trip-remote a	ls A33 (503) and A34
*/*		35 is energized, locked	
4.2.42	Push eme	rgency stop reset pushi	outton and verify:
6.2.42.13 ***	Disabled de-energ	non-reset of emergence	trip alarm is
4.2.42.2 */*	Open con (504), e	tact across terminals A	133 (503) and A34 inunciator.
*/*		5 is de-energized, lock	
4.2.43	Disconne (118) an	ct frequency generator d L8 (119).	from terminals 1.7
*/*	Disconne L48 (129 mode:	ct jumper across termin ), control room permiss	als L45 (101) and ive for maintenance
4.2.45	Close Cin	rcuit Breakers CB-1 and	CB-2, and verify:

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	R DOGS - F SECRET - SPECIAL PROPERTY SPECIAL		THE THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.		
4.2.45.1 */*	125 vd circui	c across s	olenoid valv	ve Sol 202-	6A, "A"
4.2.45.2 */*			ble light is		
4.2.45.3 */*	Peset a power A	nnunciato: failure	and verify	at engine	control energized.
4.2.45.4 */*			ss terminal		
8.2.46/	Open ci	rcuit brea	kers CB-3 a	nd CB-4 an	d verify:
4.2.46.1	No volt	age across	solenoid v	alve Sol 2	
*/* */*			le light is		zed.
272.46.20	Engine energis	control po	wer B Failu	re (pos 9-	2) alarm is
4.2.46.4	Contact 20 (470	clos re a	cross termin	nals Al9 (	469) and A
A.2.47	Remove	cimer TD-1	A from sock	et, field i	flash timer:
4.2.48			pushbutton		
4.2.48.1	125 vdc		rminal E4 (		
4.2.48.2	Failure seconds.	to start	alarm is ene	ergized aft	er 5
4.2.49	and with		generator to normal staturn on gene		
4.2.49.1	No volta starting	ge across air soler	terminal Z4	(2) and E	5 (4),
4.2.49.2	Closure (51), fi	across par eld flash	el terminal pressure sw	s E19 (53)	and E17
4.2.49.3 */*	Open cir		s terminals		and El9

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VESP 275	563-C 2 22 of 75
4.2.49.4	Contact closure across terminals F1 (73) and F2 (74), strart singal for customer's use.
*/=	Starting light is energized, for 5 seconds.
4.2.49.6	Relay Rl is energized, run/stop relay.
4.2.49.7	The running light is energized.
4.2.50	Disconnect incoming tubing line E-19, high temperature main bearing shutdown, to allow the system two shutdown, then turn off frequency generators and verify:
8.2.50.133 */*	Engine swhutdown cylinder is extended for approximmately 2 minutes.
4.2.50.2	Closure macross terminals E21 (55) and E19 (53), exciter reg enable after approx 2 minutes.
\$ 2.50.3 A	Trip high temperature engine main bearing alarm is energizeed.
4.2.50.4 */*	Open cirrcuit across terminals E19 (53) and E17 (51), fixeld flash pressure switch.
4.2.50.5 A	Relays RE1, R1 aux, and R2 are reset.
4.2.50.6	Contact closure across terminals L30 (170) and L31 (171) form approximately 2 minutes, pre-position go
4.2.50.7	Contact closure across terminals F3 (75) and F4 (76) for approximately 2 minutes, stop signal.
4.2.50.0 SERN	Unit running light is de-energized.
*,2,50.9	Unit stompping light is energized for approximately 2 minutess.
4.2.50.10 */*	Contact closure across terminals A3 (432) and A4 (433), musain bearing trip-remote annunciator.
4.2.50.11 */*	Contact closure across terminals 6 and 7 at annunciamtor pos. 7-1, main bearing Trip.

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Barrage I	After a	reconnecting line E	2-19, main bearing trip,
\$12.50.108	Trip hi de-ener	igh temp engine bes	rings alarm is
#.2.51.2 #/#	Concact (433),	is open across te	rminals A3 (432) and A4 remote annunciator.
4.2.51.3 */*	Contact	is open across te ator pos 7-1, main	amiliants of the standard
4.2.52			relay socket, field flash
5.2.53	Momenta for rem	rily jumper termin	als E49 (3) and E51 (7) t and verify:
53.4	125 vdc	across terminals	
4.2.53.2	Closure field f	across terminals lash pressure swit	E19 (53) and E17 (51),
*/# */#	Turn on be at 4	frequency general	or (setting should still
4.2.53.4			the is de-energized.
4.2.53.5 */*	No volta	age across terminal B air solenoid.	ls E4 (2) and E5 (4),
4-2.53.6		jumper across rermi	nals E49 (3) and E51 (7)
4.2.53.7 */*	Contact (52), pi	closure across ter	minals E23 (57) and E18
4.2.545	Disconne		14 200
\$7\$ 56 E			se alarm is energized.
8.2.54.2 */*	The engi	ne shutdown cylind	er is not extended.

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VEGP 275	63-C	2	24 of 75
		The second secon	
4.2.54.3 */*	Contact (436), h	closure across termingh pressure cranko	ninals AS (435) and A6 ase remote annunciator.
4.2.54.4	Contact	closure across term tor pos 8-1, high n	
#/# */*	Resonaco	t incoming tubing 1 crankcase shutdown	ine E-68, trip high
4.2.55.13 */*		h pressure crankcae	
4.2.55.2 */*	Open con (436) hi	tact across termina gh pressure crankca	1s A5 (435) and A6 se remove annunciator.
4.2.55.3 */*	Open cons	tact across termina	
*/*	Engine st	nutdown cylinder is	not extended.
1.2,56		et from loca pushbut tubing line E-23H, Turn off frequence	
\$12.56.11 */*	No voltage starting	ge across terminals air solenoid.	E4 (2) and E5 (4),
4.2.56.2 */*	Closure s	eg. enable, after	(55) and E19 (53, approximately 2
4.2.56.3	Engine sh minutes.	utdown cylinder is	extended for approx 2
*/*	Trip vibr	ation alarm is ener	gized.
4.2.56.5	Contact c (440), tr	losure across termi ip vibration remote	nals A7 (439) and A8 annunciator.
4.2.56.6	Contact c	losure scross toma	
4.2.56.7	Open cont	act across terminal set V.R. and gov.	

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VEGP 2	75563-C	2	PAGEN	25 of 75
*/*	Reconne	ect incoming tubing	line E-23-H	F. 1880-18-18-18-18-18-18-18-18-18-18-18-18-18-
4.2.57.28		bration alarm is d	e-energized.	
4.2.57.2 */*	Open co	ntact across termi trip vibration rem	nals A7 (439	and A8
4.2.57.3 */*	Open co	ntact across terminator pos 9-1, trip	nole 6 and 7	
4.2.50	and inst	emergency start purcy generator. After tall glass in the etton, push reset from ect plugged tubing water shutdown, and	er 60 seconds emergency sta om loca pushb	, depress
2.50.10	Trip low	pressure jacket w	ater alarm i	s energized.
\$2.58.28 */*	Engine s	hutdown cylinder i	s extended f	or
4.2.58.3	Contact (495), t annuncia	closure across ter rip low pressure j tor.	minals A27 ( acket water	494) and A28 remote
4.2.58.4	Contact annuncia spare co	closure across ter tor pos 17-1, low p ntact.	minals 6 and pressure jack	7 at ket water
4.2.58.5	Contact (160), f	closure across termor approximately 2	ninals L51 ()	159) and L52
4.2.58.6 */*	Contact	closur> acrons term keiter reg lockout	of no.1 = 1 00 /1	153) and L20 Lmately 2
4.2.58.7 */*	Contact (56), exc minutes.	closure across term citer reg lockout,	inals E19 (5 for approxim	33) and E22 nately 2
\$ 590	The second second second	plug to panel tub jacket water. Tur and verify:	ing line E14 n off freque	, trip low

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VEGP	27563-C	2	26 of 75
1/*	Trip 1 de-ene	ow pressure jacket wa	ter alarm is
4.2.59.2 */*	Open co (495), annunc	ontact across termina trip low pressure ja lator.	ls A27 (494) and A28 cket water remote
4.2.59.3 */*	annunci	ontact across termina lator pos 17-1, low p	ls 6 and 7 at ressure jacket water
4.2.60	40.5	STUTE SUPPLE Transhitte	1 and 27, ready to loa er, jumper wires 27 an Itage relay and verify
4.2.60.1	Relay R		d romano dumana afe
4.2.60.2	Contact (47), r	closure across termi eady to load, HVAC sy	inals E57 (46) and E58
4.2.60.3	Contact		nals E59 (48) and E60
4.2.60.4		o load lights energiz	ed.
4.2.60.5	Open cor (47) rea	ntact across terminal ady to load - HVAC sy	s E57 (46) and E58
4.2.60.6 */*	Open cor	ntact across terminal ady to load - HVAC sy	F50 (/R) and P60
4.2.60.7 */*		load light is de-en	
4.2.60.8	THE TOP 151 NOT AND THE	umper contact SS-3A, at "A: side speed to 27 and 28 at relay	wires 1 and 27, ready ransmitter and jumper UVRIA, under voltage
4.2.61	Jumper a of Off-s	cross terminals E54	(1) and E52 (15), loss

125 VDC Across terminals E4 (2) and E5 (4), starting air solenoid.

Contact closure across terminals E23 (57) and F18 (52), preset V.R. and gov.

4.2.61.1

4.2.61.2

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4.2.61.3	DC aut	start s	ignal light	is energiz	ed.
4.2.62	Remove (15),	jumper ac	cross termin	nals E54 (1 er and veri	) and E52 fy:
4.2.62.1 */*	No volt	tage acros	s terminals lenoid.	E4 (2) an	nd E5 (4),
4.2.62.2 */*	Open cc (52), p	ontact acr	coss termina L. and gov.	ls E23 (57	) and E18
4.2.62.3 */*	DG auto	start si	ngal light	is de-ener	gized.
4.2.63	Open ci	rcuit bre	akers CB-1	and CB-2 a	nd verify:
4.2.63.1		ailable e	mergency st		
4.2.63.2	Disable energiz	d D.C. st ed, pos 2	art power f	ailure ala	rm energized
4.2.63.3 */*	Contact (579), annunci	disabled :	across term D.C. start	inals K31 power fail	(578) and K3: ure-remote
1.2.640	Close c verify:	ircuit br	eakers CB-1	, 2, 3, and	d 4 and
4.2.64.1 / */*	Unit av energiz	ailable en ed.	mergency st	atus light	ís
4.2.64.2	Disable de-ener	d D.C. sta gized, pos	art power for s. 24-2.	ailure ala:	rm
4.2.64.3	Open con K32(79) annuncia	, cisable	oss terminal d DC start p	ls K31 (578 power fail	B) and ire-remote
4.2.65	* * 6 / 75 / 75 / 75 / 75 / 75 / 75 / 75 /	A KELISIAI	start push tor. After at tubing li	STREAK AO	enannd.
4.2.65.168 */*		pressure	sensor mali		
4.2.65.2 */*	Contact (464), 1	ow oll pr	cross termi essure sens	inals Al5 (	(463) and Al6

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VEGP 2	7563+C	2	PAGENO 28 of 75
*/*	Disconnect	plug at tubing line	E-10B.
4.2.655,4	Trip low p	ressure lube oil alar	rm is energized.
4.2.665.5	Low oil prode-energize	essure sensor malfunced.	ction alarm
4.2.655.6	Contact clo (449), low annunciator	osure across terminal pressure lube oil tr	s J15 (448) and J16 ip-remote
4.2.665.7 <u>*/*</u>	Contact clo annunciator contact.	psure across terminal pos 2-2, pressure l	s 10 and 11 at ube oil trip spare
4.2.655.8 */*	Open contac (464), low annunciator	t across terminals A oil pressure sensor	15 (463) and Al6 malfunction remote
4.2.655.9 7 */*	Relay R23B	is energized - emerge	ency stop.
4.2.666	generator as E-10A and B	rgency start pushbutt reset from loca, tur nd reconnect plugs to , trip low pressure l top reset and verify:	or off frequency
4.2.566.1		top relay R-23B is de	
4.2.666.2 */*	Open contact (449), low pannunciator.	t across terminals J1 press lube oil trip -	5 (448) and J16 remote
4.2.666.3 */*	Open contact annunciator spare contac	pos 2-2, pressure lu	and 11 at be oil trip -
4.2.683 3	Push normal generator.	start pushbutton and After approx 60 seconding line El0-B and	
4.2.657.1 */*		sure sensor malfunct	
4.2.657.2 d	Disconnect p	lug from tubing line	E10-C and verify.

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*/*	Low oil de-ener	pressure tensor malfu	nction alarm
* 2.67.2.	Trip lo energiz	w pressure lube oil sh	utdown alarm
4.2.67.2.3 */*	Contact (160),	closure across termin trip 52G, for approxim	als L51 (159) and L52 ately 2 minutes.
£ 20.08	Turn of	f frequency generator on lines E-10B and C.	
4.2.69	Penerar	rmal start pushbutton or. After approx 60 secon tubing line El0-C ar	CONNE MIRAMENTE
4.2.69.1	Low oil energize	pressure sensor malfured.	nction alarm
4.2.69.2	Disconne	ect plug from tubing li	ne ElO-A and verify.
4.2.69.2.1	Low oil energize	pressure lube oil shut	down slarm
4.2.70	Turn off to tubir	frequency generator and lines ElO-A and C.	nd reconnect plugs
4.2.71	grant or a term and that has been	mal start pushbutton a r. After approx 60 se ine El6-A and verify:	nd turn on frequency conds, disconnect
4.2.71.3 */*	High jac	ket water temp sensor energized.	malfunction alarm
4.2.71.2 */*	7 77 75 75 7 8 1.00	closure across termina igh jacket water temp nnunciator.	ls A31 (500) and A32 sensor malfunction
*/*	Disconne jacket w	ct tubing line E16-B, I	high temp
4.2.71.3.3 */*	High jack alarm de	ket water temp sensor :	malfunction
4 72 71 . 3 . 2	High jacl	ket water temp shutdown	n alarm energized.
4.2.71.3.3 */*	Contact (489), h	closure across terminal igh temp jacket water i	is J33 (488) and J34 remote annunicator.

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				THE RESERVE ASSESSMENT	The second secon
4.2.71.3.4	Contact annunci spare c	atur pos	across ter 15-1, high	minals 6 ar	nd 7 at et water -
4.2.32	Turn of lines E	f frequen 16-A and	cy generat B and veri	or and reco	nnect tubing
A.2.73 */*	(ESS) 700 TO 700 TO 700 TO 100	F 10 A 10	t pushbutt r approx 6 B and veri	1.1 E. E. P. P. P. P. P. P. P.	on frequency disconnect
1-2-73-10	Trip his	temp ja	cket wate	r alarm is	de-energized.
4.2.73.2	Open con (489), t annuncia	TTD HTEU	ss termin temp jack	als J33 (48 et water -	8) and J34 remote
4.2.73.3	Open con annuncia spare co	TOT DON I	ss termin 5-1, high	als 6 and 7 temp jacke	at t water -
4,2,73,4g	High jac	ket water	temp sens	sor malfunc	tion alarm.
4.2.73.5	Disconne	ct tubing	line El6-	C and veri	fy:
4.2.73.5.1 */*	High tem	p jacket	water shu	itdown alarm	n energized.
4.2.74	Turn off lines Ele	frequence 5-B and C	y generato	r and recor	nnect tubing
4.2.75 */*	The second second second second second	4 CAL C 00 L	24 (212) 17 (232) 1 195 (3	n and turn tely 60 sec C and verif	on frequency onds,
4.2.75.1				r malfuncti	
4.2.75.2	Disconnec	t tubing	line El6-	A and verif	у.
4.2.75.2.1 */*	High jack	etwater t	emp shutd	own alarm.	
4.2.76	Turn off line El6-	frequency A and C.	generato	r and recon	nect tubing

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VEGP	27563-C	2	31 of 75
A THE		pass. Release emerges of seconds, and then to verify.	ency start pushbutton push the test bypass
4.2.77.1	Group I	pressure gauge is 1	ess than 25 PSI.
4.2.77.2 */*	Bypass	test failure light is	s de-energized.
4.2.77.3	install	roup I pressure garge depress emergency st glass, push reset fr t bypass pushbutton a	art pushbutton and
\$ .2.77.3. */*	and the second second	test failure light is	
4.2.78	Lube oil level pu	sump tank level. Pushbutton and verify:	ush lube oil sump tan
4.2.78.1	Sump tar comparir Acceptar		
4.2.79		level. Push day to	nk level pushbutton
4.2.79.1	Acceptan	level indicator is a g it with the day tar ce criteria: indicato 8 of full scale.	
.2.80	Annuncia verify:	tor. Push annunciate	or test button and
.2.80.1 /*	All alam	m indicators are ener	gized.
.2.80.2	Disconnection relay R-1	ot horn by disconnect 15 and tape wire end.	ing wire No. 402 at
.2.81			to reset annunciator.

PROCEDURE NO	The Samuel Control of Control of the Samuel Control of Samuel Cont	PREVISION	TRACENO
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TO AND THE SECOND CONTRACTOR OF SECOND CONTRACTOR O	-	Ac-	32 of 75
4.2.82	condit either state documer indivi- either relay relays	RI relay, Group II Loc e the annunciator boar ions display, I are val alarmed or cleared, a from what they should nt and disposition. T dual alarm as listed b jumpering the sensor, or terminal, or discon R16, R17, R18 and R20 22N and tape wire end.	id and determine if id. If conditions, are in the opposite be, advise foremen for hen energize each elow by momentarily pressure switch, nect the wire. Remove
4.2.82.1	Lube of	11 filter differential	high, PS-4N, pos 6-2.
4.2.82.1.1	444 146	closure across terming (1) when alarm is energized.	nals Al3 (460) and gized and contact open
4.2.82.1.2	Relay R	38, mechanical trouble time as alarm.	e alarm is energized at
4.2.82.1.3	F - 4 - 14 - 1 - 1 - 1	closure across terming), mechanical trouble alarm is energized.	e alarm at the same
4.2.82.2	Turbo c	il pressure low, right	., PS 43N, pos 3-2.
4.2.82.2.1	Contact (452) w	closure across termin hen alarm is energized arm is de-energized.	als J17 (451) and J18
4.2.82.2.2 */*	57.00 (80.00) (10.00)	38, mechanical trouble same time as alarm.	alarm is energized
4.2.82.3	Turbo of	il pressure low, left,	PS 20N, pos 4-2.
+.2.82.3.1 */*	Contact J20 (455	closure across termin i), when alarm is ener an alarm is de-energiz	als J19 (454) and
4.2.82.3. <b>2</b> */*	and the said	88, mechanical trouble same time as alarm.	alarm is energized
4.2.82.4	Lube oil	pressure low, PS-25N	, pos 1-2.
4.2.82.4.1	Contact (466) wh	closure across termine en alarm is energized rm is de-energized.	270 777 7775

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		A STATE OF THE PARTY OF THE PAR		The second secon
4.2.82.4.2	Relay 1	R38, mechanical tr same time as alar	ouble alarm i	s energized
4.2.82.5	Loss of (79) ar	f generator DC con nd F10 (89).	trol power, t	erminals Fll
4.2.82.5.1 */*		closure across to when alarm is ener is de-energized.	erminals A21 gized and con	(472) and A22 tact open when
4.2.82.6	High F. C30 (51	O. leak tank alar 2) pos 13-2.	m, terminals (	C29 (411) and
4.2.82.6.1 */*	100000000000000000000000000000000000000	closure across to then alarm is energized arm is de-energized	TIPPE CHE CAN	513) and Ke tact open
4.2.82.7	Lube of C25 (42	1 tank level low, 8) pos 6-1.	terminal C25	(411) and
4.3.82.7.1	A 10 May 100 M	closure across to hen alarm is energ arm is de-energize	the state of the s	29) and A2 act open
4.2.82.8	High le	vel main tank, ter os 14-2.		(1) and C32
4.2.82.8.1 */*		closure across to hen alarm is energ arm is de-energize		116) and K8 act open
4.2.82.9	Lube oi	l inlet temperatur 412) pos 1-1.		ins 10 (411)
4.2.82.9.1		closure across te hen alarm is energ arm is de-energize		14) and J2 act open
4.2.82.9.2	Relay R	38, mechanical tro same time as alarm		energized
4.2.82.10	Lube of	1 outlet temperatund 9 (416) pos 2-1	ma law pin	pins 10
4.2.02.10.1	Contact (418) wi	closure across te nen alarm is energ arm is de-energize	rminals J3 (4	17) and J4 act open
4.2.82.10.2	Relay Ri at the s	38, mechanical tro same time as alarm	uble alarm is	energized

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	THE RESIDENCE OF STREET, STREE	THE PERSONNEL PROPERTY AND THE PERSONNEL PROPERTY OF THE PERSONNEL PROPERTY AND THE PERSONNEL PROPERTY	
4.2.82.11	Lube of	1 outlet temperature 437) pos 3-1.	low, R16, pins 6 (419)
4.2.82.11.1 */*	1 11 10 16 7 19	closure across termi hen alarm is energize arm is de-energized.	rals J5 (420) and J6 and contact open
4.2 82.11.2	Relay R	38, mechanical troubl	e alarm is energized
4.2.82.12	Lube oi (422) a	1 outlet temperature nd 7 (437) pos 4-1.	high, R17, pins 6
4.2.82.12.1 */*	/ 4 to 4 / W.1	closure across termi nen alarm is energize arm is de-energized.	nals J7 (423) and J8 d and contact open
4.2.82.12.2	Relay Ri at the a	38, mechanical trouble ame time as alarm.	e alarm is energized
4.2.82.13	Low leve (518) po	el main tank, terminal s 15-2.	ls D13 (411) and D14
4.2.82.13.1 */*	1. 0 m m y 2 30 33	closure across terminen alarm is energized rm is de-energized.	nals K9 (519) and K10 d and contact open
4.2.82,14	Generato F9 (81)	r under frequency, te	erminals F7 (79) and
4.2.82.14.1	The second secon	closure across termin en alarm is energized rm is de-energized.	als B1 (522) and B2 and contact open
4.2.82.15	Spare al.	arm, terminals D19 (4	11) and D20 (527) pos
4.2.82.15.1	7 10 10 10 2 20 2-24	closure across termin en alarm is energized rm is de-energized.	als B5 (528) and B6 and contact open
4.2.82.16	Spare ala 19-2.	erm, terminals D21 (4	11) and D22 (530) pos
4.2.82.16.1 */*	71 FF NO NO P THE BUILDING	closure across terminen alarm is energized m is de-energized.	als B7 (531) and 88 and contact open
4.2.82.17	Disabled	D.G. circuit breaker F7 (79) and F8 (80)	inoperable, pos 20-2.

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WITH THE REST OF SAID THE PERSON WAS BEEN AND THE REST OF SAID THE		En acres announcement a community of the second sec	35 of 75		
4.2.82.17. */*	(535) v	t closure across termin when alarm is energized larm is de-energized.	nals 89 (534) and BlO d and contact open		
4.2.82.17. */*	2 Relay F	Relay R35, locked out alarm is energized at the same time as alarm is energized.			
4.2.82.18	Fuel oi	1 day cank level high, and D18 (524) pos 17-2.	(100		
4.2.82.18. */*	(526) w	closure across termin hen alarm is energized arm is de energized.	nals B3 (525) and B4 I and contact open		
4,2,82,19	Generat pos 21-	or trouble, terminals	E28 (79) and E29 (82)		
4.2.82.19.1 */*	(539) w	closure across termin hen alarm is energized arm is de-energized.	als K13 (538) and K14 - and contact open		
4.2.82.20		lter differential pres	sure high, PS-5N, pos		
4.2.82.20.1	(511) wh	closure across termina nen alarm is energized arm is de-energized.	als R3 (510) and K4 and contact open		
4.2.82.20.2 */*	10 TO THE 2 STATES	8, mechanical trouble ame time as alarm.	alarm is energized		
4.2.82.21	Low volt 22-1.	age, terminals E28 (79	9) and E30 (83) pos		
4.2.82.21.1 */*	(542) win	closure across termina en alarm is energized rm is de-energized.	als R15 (541) and K16 and contact open		
4.2.82.22	Fuel oil	pressure low, PS-28N,	pos 11-2.		
4.2.82.22.1 */*	Contact (508) who	closure across termina en alarm is energized rm is de-energized.	1 × 1 / 5023		
4.2.82.22.2 */*	Relay R31	8, mechanical trouble ame time as alarm.	alarm is energized		
4.2.82.23	Jacket wa	ster prescure low, PS-	22N, pos 16-1.		

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OCEDURE NO	The state of the s	REVISION	TRACE NO.
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4.2.82.23.1		closure across term hen alarm is energiz arm is de-energized.	ninals A25 (491) and A2 ed and contact open
4.2.82.23.2	Relay R	arm to devenergized.	le alarm is energized
4.2.82.24	High ter		l panel, terminals E28
4.2.82.24.1	Contact (545) wi		ingle F17 /5/// 2 ***
4.2.32.25	Jacket v . C28 (496	vater level low, terms) pos 18-1.	minals C27 (411) and
4.2.82.25.1	74561 417	closure across terminen alarm is energized.	inals A29 (497) and A3 and and contact open
4.2.82.26	Jacket w (411) an	ater in temperature d 9 (474) pos 11-1.	low, R18, pins 10
4.2.82.26.1		closure across termi en alarm is energize rm is de-energized.	nals J25 (476) and J20 ed and contact open
4.2.82.26.2	Relay R3 at the s	8, mechanical troublame time as alarm.	e alarm is energized
4.2.82.27	Jacket w. (411) and	ater out temperature d 9 (478) pos 12-1.	low, R21, pins 10
4.2.82.27.1	2 10 20 20 2 1 27 1 27	closure across termi en slarm is energize um is de-energized.	nals J27 (479) and J28 d and contact open
1.2.82.27.2 /*		s, mechanical troublemme time as alarm.	e alarm is energized
.2.82.28	Jacket wa (481) and	nter in temperature 1 1 7 (437) pos 13-1.	high, R18, pins 6
.2.82.28.1 /*	Contact c		nals J29 (482) and J30 d and contact open
.2.82,28.2 /*	The same of the same of	, mechanical trouble	a alarm is energized

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VEGP 2:	7563-C	2	37 of 75
		to the control of the	COTTON DESCRIPTION OF THE PROPERTY OF THE PROP
4.2.82.29	Jacket (484) a	water out temperature and 7 (437) pos 14-1.	low, R21, pins 6
4.2.82.29.1		closure across termi then alarm is energized arm is de-energized.	nals J31 (485) and J32 d and contact open
4.2.82.29.2	Relay R	138, mechanical troublesame time as alarm.	e alarm is energized
4.2.82.30	Low exc pos 24.	itation, terminals E2	8 (79) and E32 (85)
4.2.82.30.1	- 1 AF 15 Mr J 186 1	closure across termi hen alarm is energize arm is de-energized.	nals K19 (547) and K20 d and contact open
4.2.82.31	Engine .	control in local, term	minals E28 (79) and
4.2.82.31.1 */*	7 1 10 10 10 E 20 E	closure across termin nen alarm is energized arm is de-energized.	nals K21 (550) and K22 d and contact open
4.2.82.31.2	10 C 20 GC 20 GC 30 GC 30 GC 30 GC	o relay energized, ve erminals H9 (283) and energized.	erify contact closure 8 H10 (284) as long as
4.2.82.32	Control	air pressure low, PS-	39W. Pos 21-2.
4.2.82.32.1	Contact (569) wh		-1
4.2.82.33		tart sir pressure low	, PS-3N1, and PS-4N1,
4.2.82.33.1	2 10 1 10 E E E E E E E E E E E E E E E E	closure across termin en alarm is energized rm is de-energized.	als K27 (572) and K28 and contact open
4.2.82.33.2	Unit ava		us light de-energized
4.2.82.34	Diesel si	tart air pressure high	
4.2.82.34.1	Contact of (576) whe	closure across termina en alarm is energized em is de-energized.	als K29 (575) and K30 and contact open

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THE RESERVE OF THE PARTY OF THE	THE WATER COMMITTEE STREET, MADE TO STREET, MADE AND ADDRESS OF THE STREET, MADE AND ADDRESS O		PROPERTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY A		20 01 73
4.2.82.35	Genera pos 26	tor fault,	terminals E	28 (79) and	d E34 (87)
4.2.82.35.1 */*	N. M. W. W. T. B. T. B.	TT 1 1 TO 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	across termi is energize energized.	nals B13 (S	553) and Bl4 act open
4.2.82.35.2	Contact annunci energiz	raror pos 2	across termi 26-1 as long	nals 6 and as alarm i	7 at
4.2.82.36	Trip ge (88) pc	enerator di s 27-1.	ff, termina	ls E28 (79)	and E35
4.2.82.36.1	5. 67. 67. 71. 25.	closure a hen alarm arm is de-	cross terminis energized.	nals 815 (5 i and conta	56) and B16 of open
4.2.82.36.2	Contact annunci energiz	aroz bos v	cross termir 7-1 as long	als 6 and as alarm i	7 at
4.2.82.37	High ge	nerator be (558) pos	aring temp, 28-1.	terminals !	D31 (411)
4.2.82.37.1		closure at hen alarm : arm is de-e	cross termin is energized energized.	als B17 (5) and contac	59) and B18
4.2.82.38			inals D33 (4	11) and D3	(561) pos
4 2.82.38.1		closure ac nen alarm i rm is de-e	ross termin s energized nergized.	als B19 (56 and contac	2) and B20 t open
4.2.82.39	Switch n (586) al	so E55 (79	, terminals ) and E56 (	D11 (411)	and D12
4.2.82.39.1	Contact (588) wh	closure ac	ross termina	1 - P25 /50	
4.2.82.40	Panel in	trusion, p	os 28-2.		
4.2.82.40.1	Contact (596) wh	closure ac	ross termina	als B29 (59 and contac	5) and 830 t open
4.2.82.41			ontrol panel	, pos 29-2	

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		A CONTRACT OF THE PARTY OF THE	THE RESERVE OF A STREET OF STREET OF STREET STREET, STREET STREET, STR
4.2.82.41.1	The second of the second of	et closure across termi when alarm is energized alarm is de-energized.	nals B31 (598) and B32 ed and contact open
4.2.82.42	Instal reconn	1 relays R16, R17, R18 ect lifted wire 437 to	and R20. Also PS22N.
4.2.83	Reset	R2 relay, Group II loc	kout, manually.
4.2.84	T 161 S.A.Se. 161	shutoff valve tubing or ressure, starting air : Trip low pressure 1	Draecus I D
4.2.84.1	No pre	ssure at starting air	pressure L.B. gauge.
4.2.84.2	Momenta (104),	arily jumper terminals remote emergency stars	L37 (106) and L43 t and verify.
4.2.84.2.1 */*	120 vol (105),	lt D.C. across terminal starting air solenoid.	1 L4 (102) and L5
4.2.84.3	Momenta (7), re	arily jumper terminals emote emergency start a	E49 (3) and E51
4.2.84.3.1 */*	120 vol	t A.C. across terminal air solenoid.	
4.2.85	Close s Pressur and ver	hutoff valve tubing co e Below 150 PSIG start ify:	nnection E31R and venting air pressure R.B.
4.2.85.1 */*	Pressur R.B. ga	e Below 150 PSIG at st uge.	arting air pressure
4.2.35.2 */*	No pres	sure at scarting air p	ressure L.B. gauge.
4.2.85.3	Momenta (104),	rily jumper terminals remote emergency start	L37 (106) and L43 and verify:
4.2.85.3.1	No volta	age across terminals L g air solenoid.	
4.2.85.4	Momenta: remote e	rily jumper terminals amergency start and ve	E49 (3) and E51 (7)
4.2.85.4.1 */*	No volts	nge across terminals E	

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4.2.86	1 NA 1211/ TO A	nutoff valve E31R and are removed across (4) and L4 (102) and	Francisco de la Propertie de la Contraction de l
4.2.87	Open ci	rcuit breaker CB-9 a	nd CB-10 and verify.
2.87.1 */*			inals H1 (275) and H2
4.2.87.2	Contact (513).	closure across term	inals A35 (612) and A30
4.2.88	Close c	ircuit breaker CB-9	and CB-10 and verify:
4.2.88.1		ntact closure across	terminals H1 (275) and
4.2.88.2	Open cor and A36	ntact closure across (613).	terminals A35 (612)
4.2.89	Trip lot	pressure lube oil.	
4.2.89.1	Trip low bulkhead line.	pressure lube oil - i filting E-10A and c	remove flug at onnect incoming tubing
2.89.2 */*	Trip low bulkhead line.	pressure lube oil - l fitting E-10B and c	remove plug at onnect incoming tubing
4.2.89.3	Trip low bulkhead line.	pressure lube oil - fitting E-10C and c	remove plug at onnect incoming tubing
± .2.90 ★/★	Trip - 1 bulkhead line.	ow pressure turbo of fitting E92 and com	l. Remove plug at nect incoming tubing
4.2.91	Trip - 1 bulkhead line.	ow pressure jacket wa ficting E-14 and cor	ster. Remove plus at nect incoming tubing
4.2.92	Close the	e following sliding 1	link terminals.
6.2.92.1 */*		carting air valve.	
4.2.92.2	B-Bank st L4 (102).	carting air valve. I	Cerminals L5 (105) and

PROCEDURE NO	CONTRACTOR C. SECRET RESIDENCE TO SECRET RECEIPMENT AND	REVISION	PER AND THE PROPERTY AND ASSESSED ASSESSED ASSESSED ASSESSED ASSESSED ASSESSED ASSESSED.
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		ANDERSON PROPER OF AND COMMENCE ACCORDINATION OF THE STREET AND	Decided to the state of the sta
4.2.92.3	Field f	lash, exciter reg enab 22 (36), El7 (51), and	le. Terminals El9 E21 (55).
4.2.92.4	Preset and E24	V.R. and Gov. Terminal (59).	s E23 (57), E18 (52),
4.2.92.5	Peady (78).	c load, DG brkr. Term	inals F5 (77) and F6
4.2.92.6	Ready t E58 (47	o load, HVAC sys. Ter	minals E57 (46) and
4.2.92.7	Ready to (49).	o load, spare. Termin,	als E59 (48) and E60
4.2.92.8	Start,	spare. Terminals F1 (	73) and F2 (74).
4.2.92.9	Stop, sp	pare. Terminals F3 (75	) and F4 (76).
4.2.92.10 */*		tion Gov and V.R. Ter	
4.2.92.11 */*	186C Tri (173).	p delay. Terminals 13	(172) and L33
4.2.92.12 */*	Field f1 (153), L	ash, exciter reg enabl 20 (141), L21 (144), a	e. Terminals L23
4.2.92.13		. Terminals L51 (159)	
4.2.92.14 */*	Emergenc	y stop. Terminals L53	(164) and L54 (165).
4.2.92.15 */*	Running,	spare. Terminals L55	(166) and L56 (167).
4.2.92.16 */*	Running,	spare. Terminals L57	(168) and L58 (169).
4.2.92.17 */*	Overspeed (180).	d, spare. Terminals L5	9 (179) and L60
4.2.92.18	Running V (176).	V/Delay. Terminals L3	5 (175) and L36

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4.7 92.19	Ready t	o load - HVAC sys	tem. Terminals	L9 (137)
4.2.92.20	Ready t L12 (14	c load - spares.	Terminals L11	(139) and
4.2.92.21	Emergen	cy stop Terminal	s L14 (336) and	1 L15 (337).
4.2.92.22 */*	ERF com (S482).	puter. Terminals	L49 (S4B1) and	1 L50
4.2.92.23	Emergen wire nu	cy stop annunciat: mber) and L26 (no	ion. Terminals wire number).	1.25 (no
4.2.92.24		#1. Terminals C3		245).
4.2.92.25 */*	CC Fan	#2. Terminals C5	(246) and Cl1	(242).
4.2.92.26	Generat (239) a	or space heater cond C8 (240).	ontrol. Termin	als C7
4.2.92.27 */*	00 (500)	contacts. Termin ), G6 (250), G7 (2 0), G11 (161), and	2570. G8 (258).	G4 (254), G9 (259),
4.2.92.28 */*	(268),	W/Delay contacts. 4), G15 (265), G16 G19 (269), G20 (27 3), and G24 (274).	5 (266), G17 (2 70), G21 (271)	671 010
4.2.92.29	Loss of H2 (276	DC annunciation.	Terminals H1	(275) and
4.2.92.30 */*	Mechani H20 (29	cal trouble alarm.	. Terminals Hl	9 (298) and
4.2.92.31	Luckout	alarm. Terminals	H3 (277) and	H4 (278).
4.2.92.32	Failed	to start. Termina	als H7 (281) ar	nd H8 (282).
4.2.92.33	Unit av	ailable local cont (284).	trol. Terminal	s H9 (?83)

VEGP 27563-C REVISION PAGE  VEGP 27563-C 2  Unit available. Terminals H11 (285 H13 (287), H14 (288), H15 (289), and 4.2.92.35  Alarm. Terminals H17 (296) and H18	43 of 75 0, M12 (286), d H16 (290). (297).
4.2.92.35 Alarm. Terminals H17 (296) and H18	), M12 (286), d H16 (290). (297).
4.2.92.35 Alarm. Terminals H17 (296) and H18	d H16 (290). (297). 12) and A36
4.2.92.35 Alarm. Terminals H17 (296) and H18	12) and A36
*/*	
4.2.92.36 Loss of DC power. Terminals A35 (6: */* (613).	d F8 (80).
4.2.92.37 DG Brkr inop. Terminals F7 (75) and	
4.2.93 Open toggle switches to allow hourm	eter to be
4.2.94 A-Bank starting air valve. Reconner */* number 4 at engine "ZJBA" junction 1	ct engine wire
8.2.95 B-Bank starting air valve. Reconner number 105 at engine "EJBB" junction	ot engine wire n box.
4.2.96 Reconnect the horn by reconnecting to */* relay R-15, connection is across from 401A.	wire No. 402 at om wire No.
4.2.97 Manual permissive start "A" side, reacross terminals E49 (3) and E50 (1	emove jumper
4.2.98 Manual permissive start "B" side, r */* across terminals L37 (106) and L42	emove jumper (110).
4.2.99 Disconnect frequency generator from (20) and E8 (21).	terminals E7
4.2.100  */*  tubing or fittings. Check for any jumper/disconnected wires. Check for terminal links. Control panel shou operational for engine start.	or any open
4.2.101 Notify Shift Supervisor that requires is complete.	ed maintenance
5.0 ACCEPTANCE CRITERIA	
5.1 Maintenance performed using this pracceptable when:	ocedure is
5.1.1 The "Completion" Sheet is properly	filled out.

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5 1.2	settings	s from the Procedu have been reviewed h the Maintenance	re data and recommended on a case-by-case Foreman.
5,1,3	Divations section o	have been identiff the "Completion"	ied in the "Comments" Sheet.
5.1.4	The "Comp	letion" Sheet has	been approved.
5.1.5	Maintenand submitted attention	for conditions ev	e been written and aluated as needing
6.0	REFERENCE:	S	
6.1	00304-C,	"Equipment Cleara	nce And Tagging"
6.1.1	20407-C,	"Maintenance Clea Housekeeping Cont	
6.2	AX4 AK01 - 5 (	"Transameric Manual"	a Deleval Instruction

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	POWER	AND SIGNA	L REMOVAL/RE	PLACEMEN'	T DATA SHE	ET	Sheet 1 of 1
[ ] Safe	ty Related/QC H	loldpoints	NOTES		[] Non	-Safety Relate	ed
a. To install jumpers a directly associated number(s) listed on Supervisor and compl b. Ensure that each leas uniquely identified c. Independent verificated equipment. verification block f	with the equipment the Work Order, no y with his instruc- ed (wire) is marked with its terminati fion is only requi- Place N/A in indep	tag(s)/schotify the Shotify the Shotions. I so it can ion point. Tred on safe pendent	heme or to and Lift Processes e. If he ty f. If a removed the transfer of the	he work is Lifted Wir ed Wire Co edure numb oldpoints pplicable,	interrupted e" tag per 0 atrol". Ins er on the ta do not apply	, NA QC Verifica	nstall a "Jumpe ry Jumper And Number use the tion block.
			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
				-			
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Procedure No.

## COMPLETION SHEET

PROCEDURE	REVISION		MENTER THE PROPERTY OF SAME A SECURITY OF THE PERSON AND A SECURITY OF THE PERSON AND A SECURITY OF THE PERSON AND ASSESSMENT OF THE PERSON ASSESSME	SHEET	A series and a series of the s	
27563-C TAG NO.		DESCRIPTI	DESCRIPTION		1 OF 30	
SERIAL NO.		MANUFACTO	RER	MODEL		
TEST EQUIPM	ENT USED	MATE /	[] Safety Rel			
PROCEDURE STEP	DESCRI	PTION	MAINT. INIT/DATE	AND AND A SHOULD AND A SECOND	OC INIT/DATE	
4.1.1	Prereq	uisites met	NA PARTERING ANALOGO ANALOGO ANA		/	
4.1.2	Shift notifi	Supervisor ed	- 100000 100000000000000000000000000000	The state of the s	/	
4.1.5.1	Tubing	E-10A dis- ted			,	
4.1.5.2	Tubing	E-10B dis- ted			TO CONTRIBUTE AND A CHIEF STRUCKY WHEN	
4.1.5.3	Tubing	E-10C dis- ted		THE PERSON NAMED IN	**************************************	
4.1.6.1	Tubing	E-92 dis- ted	,	- Part Administration	/	
4.1.7.1	Tubing	E-14 dis- ted	/	FORTING SACRESCE AND SACRESCE A		
V	-Bank Star alve. Term nd E4 (2).	ting Air inals E5 (4)	a de la constitución des constitucións	THE PARTY STREET	/	
T	-Bank Star erminals L 4 (102).	ting Air Valv 5 (105) and	/ė.		-	

Terminals L32 (172) and

Enable. Terminals L23 (153), L20 (141), L21 (144), and

L33 (173).

1.24 (155).

4.1.8.12 Field Flash, Exciter Reg

Trip 52G. Terminals

L51 (159) and L52 (160).

Emergency Stop. Terminals

4.1.8.13

4.1.8.14

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			Sheet	3 of 30
PROCEDURE		MAINT. INIT/DATE	HOLD POINT (Yes/No)	OC INIT/DATE
4.1.8.15	Running, Spare. Terminals L55 (166) and L56 (167).		66. AT Matthiate colonomical age	
4.1.8.16	Running, Spare. Terminals L57 (168) and L58 (169).		NAME OF TAXABLE STATES	
4.1,8,17	Overspeed, Spare. Terminal L59 (179) and L60 (180).	8	Market State Co., all page	
4.1.8.18	Running W/Delay. Terminals L35 (175) and L36 (176).		MINE CHARLES CANADIDADE	/
4.1.8.19	Ready to Load - HVAC System Terminals L9 (137) and L10 (138).	n.		
4.1.8.20	Ready to Load - Spare. Terminals L11 (139) and L12 (140).			Annual reserve a smaller resonance extraorerestra
4.1.8.21	Emergency Stop. Terminals L14 (336) and L15 (337).	NAMES OF THE PARTY		/
4.1.8.22	ERF Computer. Terminals L49 (S4B1) and L50 (S4B2).	and consequently and the same	-	
	Emergency Stop Annunciation Terminals L25 (79-180) and L26 (90-180).			,
4.1.8.24	CC Fan #1. Terminals C3 (244) and C9 (245).			/
4.1.8.25	CC Fan #2. Terminals C5 (246) and Cl1 (247).	·		/
	Generator Space Heater Control. Terminals C7 (239) and C8 (240).	THE STREET		
	Running Contacts. Terminals G3 (253), G4 (254), G5 (255 G6 (256), G7 (257), G8 (258 G9 (259), G10 (260), G11 (161), and G12 (162).	),		/

Relay R-35 De-

Contact OPEN

Lockout alarm de-

alarm ENERGIZED

Barring device engaged

energized

energized

4. .2.7.1

4 . 2 . 7 . 2

4 .. . 2 . 7 . 3

4 .. 2.8.1

CEDURE NO.		REVISION		PAGE NO.	Continues that there is comparable state, and the LARLES in the sa-	erroren men
VECP 2	7563-C		2		52 of 75	
				Sheet	7 of 30	of terrories
PROCEDURE	DESCRIE	TION	MAINT. INIT/DATE	HOLD POINT (Yes/No)	OC INIT/DATE	
4.1.8.2	Contact	CLOSED	****	E 1 CENTRE AND COMMANDE		
4.2.8.3	Relay R ENERGIZ		-			
4.2.9.1.1	125VDC	Present		THE REAL PROPERTY AND		
4.2.9.2.1	No volt	age present	THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TRANSPORT NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TRANSPORT NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TRANSPORT NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TRANSPORT NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TRANSPORT NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TRANSPORT NAMED IN COLUMN TRANSPO	2010-consequence		
4.2.9.2.2	No volt	age present		oreston menuse		
4.2.10.1	Barring alarm E	device engage NERGIZED	d	World Little Machine	2014.000.0000000000000000000000000000000	
4.2.10.2	Contact	OPEN		WALKERS WANTED		
4.2.10.3	Relay R DE-ENER	-35 GIZED	/			
4.2.11	Wire Re	connected			/	-
4.2.11.1	Relay R DE-ENER				/	
4.2.11.2	Lockout ENERGIZ				1	
4.2.12.1	Shutdown RETRACT!	n cylinder ED			/	
4.2.12.2	Pressure 60PS1	e Gauge reads			1	
4.2.12.3	Lockout DE-ENER				1	
4.2.12.4	Emergen ENERGIZI	cy status ligh	t			
4.2.12.5	Lockout	pin in LOCKED		Tit-000000000000000000000000000000000000	/	
4.2.12.6	STOPPING DE-ENERO	Glight GIZED	,		1	

4.2.18.15

4.2.18.16

4.2.18.17

4.2.18.18

4.2.18.19

4.2.18.20

Contact CLOSED

Contact OPEN

Contact OPEN

Contact OPEN

Contact CLOSED

Contact CLOSED

PHOCEDURE NO.		REVISION	The second second second second second	TPAGE NO	CONTRACTOR OF THE PROPERTY OF THE PERSON NAMED IN	
VEGP	27563-C		2		55 of 75	
PROCEDURE	DESCRIP	TION	MAINT. INIT/DATE	Sheet HOLD POINT	10 of 30  QC INIT/DATE	
4.2.18.21	Contact	CLOSED	,	(Yes/No)	W. All Control of Control of Control	
4.2.18.22	Contact			NOAHMARAAA		
4.2.18.23	Contact	OPEN		description of the same of the		
4.2.18.24	Contact	OPEN	Marketine - Lanceston	With the same of t	tornoon Laborator was	
4.2.19	Mainten Pushed	ance Button	N-000000000000000000000000000000000000	to the control of the		
4.2.19.1	Mainten DE-ENER	ance mode ala GIZED	rm /	MATRIC CONTROL OR STATE OF THE	manage language	
4.2.20.1	Contact	OPEN			1	
4.2.20.2	Shutdown EXTENDED	cylinder	***************************************	-	/	
4.2.20.3	Cylinder and VENT	retracted TED				
4.2.20.4	Contact	OPEN	Professional Street Str	Pottony National Societies		
4.2.20.5	Contact	CLOSED	-	-		
4.2.20.6	Unit run DE-ENERG	ning light	1-10-2 000000000000000000000000000000000	National and	/	
4.2.20.7	Contact	OPEN		No. of Contrast and		
4,2,20,8	Contact	OPEN	***************************************	ORDER OF STREET	-	
4.2.20.9	Contact	OPEN	-	NAVAGORISTIC ARKEN		
4.2.21.1	Maintena alarm EN	nce mode ERGIZED		-	NOW HOW AND ADDRESS OF THE PARTY OF THE PART	
4.2.22.1		nce mode -ENERGIZED		*TOTAL POTENTIAL TOTAL		
4.2.24.1	125VDC P	RESENT		MANAGEMENT CONCERNS		
4.2.24.2.1	Maintena alarm DE	nce mode -ENERGIZED		***********		

Relay R-35 ENERGIZED

Relay R-35 ENERGIZED

Emergency trip DE-ENERGIZED

4.2.32.12

4.2.32.12.1.1

4.2.32.12.1.2

ALARM ENERGIZED

4.2.50.10

4.2.50.11

4.2.51.1

Contact CLOSED

CONTACT CLOSED

Hi bearing temp ALARM DE-ENERGIZED

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		The Bourse Street Company and the Company and American Street Company and American Street Company and American	Transmission of the second services	Sheet	18 of 30
PROCEDURE	DESCRI	PTION	MAINT. INIT/DATE	HOLD POINT (Yes/No)	INIT/DATE
4.2.56.2	CONTACT	CLUSED	-		
4.2.56.3	EHUTDOW EXTENDE	N CYLINDER			
4.2.56.4	VIBRATI ENERGIZ	ON ALARM			
4.2.56.5	CONTACT	CLOSED	so successful acres on a second		/
4.2.56.6	CONTACT	CLOSED		W-STORMAN	and the same of th
4.2.56.7	CONTACT	OPEN		State in anti-content of the state of the st	/
4.2.57	TUBING RECONNE			OF PERSONS AND ASSESSED.	TO COLOR OF STREET, EXCENSION AND
4.2.57.1	VIBRATI DE-ENER	ON ALARM GIZED			/
4.2.57.2	CONTACT	OPEN		Will make make	/
4.2.57.3	CONTAGT	OPEN		Printed Area	/
4.2.58.1	Jacket PRESSUR	Water Lo E ENERGIZED			/
4.2.58.2	ENGINF CYLINDE	SHUTDOWN R EXTENDED	monance exchangement		/
4.2.58.3	CONTACT	CLOSED		WHENCE ON A TOTAL MANAGE.	Andrewson contract administration
4.2.58.4	CONTACT	CLOSED	n-mercunal distances	ETHIC TERMINATURE	/
4.2.58.5	CONTACT	CLOSED	/	THE THE STREET VALUE	Account to the same of a spinor present a company
4.2.58.6	CONTACT	CLOSED		TENTO EXCHANGE	A CONTRACT COST STREET, COST ST
4.2.58.7	CONTACT	CLOSED		STEEL JAMES SALE	(A TETROS AND CONTRACTOR OF THE PARTY OF THE
4.2.59	TUBING I				The second secon
4.2.59.1	JACKET V DE-ENERO	VATER ALARM	COMMUNICACIONAL PROPRIATE	MARKET COMME	eministra de constante de const

PAGENO

VEGP 21	563-C	2	PAGENO	64 of 75
		AND THE PERSON NAMED IN COST OF THE PERSON NAMED IN	Sheet	19 of 30
PROCEDURE	DESCRIPTION	MAINT. INIT/DATE	HOLD POINT (Yes/No)	OC INIT/DATE
4.2.59.2	CONTACT OPEN			
4.2.59.3	CONTACT OPEN			commendation and
4.2.60.1	RELAY R-11A ENERGIZED			
4.2.60.2	CONTACT CLOSED		EUT WILLIAM DE	
4.2.60.3	CONTACT CLOSED		NAC INCOME	
4.2.60.4	READY TO LOAD LIGHT ENERGIZED	nemina de la companya	LANGE AND PORT OF A	
4.2.60.5	CONTACT OPEN	***************************************	************	/
4.2.60.6	CONTACT OPEN			/
4.2.60.7	READY TO LOAD LIGHT DE-ENERGIZED			,
.2.60.8	JUMPER REMOVED	/		/
.2.61.1	125VDC PRESENT		-	7
.2.61.2	CONTACT CLOSED		A COLUMN	
.2.61.3	AUTO START LIGHT ENERGIZED			/
.2.62	REMOVE JUMPER			/
.2.62.1	NO VOLTAGE PRESENT			1
.2.62.2	CONTACT OPEN			
.2.62.3	AUTO START	/_		
.2.63.1	UNIT AVAILABLE LIGHT DE-ENERGIZED		NAMED AND ADDRESS OF THE PARTY	
.2.63.2	FOWER FAILURE ALARM	change changes where the process against	Mercond decreased	
.2.63.3	CONTACT CLOSED	,		/

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		A STATE OF THE STA	THE CONTRACTOR OF THE PARTY OF	Sheet	21 of 30
	PROCEDURE	DESCRIPTION	MAINT. INIT/DATE	HOLD POINT (Yes/No)	OC INIT/DATE
	4.2.67.2.1	LO OIL PRESSURE ALARM DE-ENERGIZED	an an an an Anna an an an an	Modellik Lifter State Str.	
	4.2.67,2.2	LUBE OIL SHUIDOWN ALARM ENERGIZED			
	4.2.67.2.3	CONTACT CLOSED			/
	4.2.69.1	MALFUNCTION ALARM ENERGIZED	1		ar and day
	4.2.69.2	PLUG E-10A DISCONNECTED	·	Acres November	
	4.2.69.2.1	LUBE OIL SHUTDOWN ALARM ENERGIZED			the ,
	4.2.70	PLUGS RECONNECTED TO TUBING ELOA and ELOC			7
	4.2.71.1	JACKET WATER TEMP SENSOR HALFUNCTION ALARM ENERGIZED			Venezioni celi ini di mell'invenizione di asserbitorio.
	4.2.71.2	CONTACT CLOSED		A hadra	And or the manufacture of the same
	4.2.71.3	Disconnect Tubing £-16B			/
	4.2.71.3.1	TEMP SENSOR MALFUNCTION ALARM DE-ENERGIZED		OF SUPERING MANAGE	- retire reconstructure annual expenses
	4.2.71.3.2	JACKET WATER TEMP SHUTDOWN ALARM ENERGIZED		TO A STATE OF THE	The second control of the second seco
	4.2.71.3.3	CONTACT CLOSED		annual section of the	AND THE RESIDENCE AND ADDRESS.
	4.2.71.3.4	CONTACT OPEN	1		/
	4.2.72	TUBING E-16 and RECONNECTED	oran rancookassan sacaassa	THE PERSON NAMED IN COLUMN NAM	A STATE OF THE PARTY OF THE PAR
	4.2.73	E16-8 Disconnected	COMMUNICATION SERVICE MANAGEMENTS	ot can de manage	duspendenting of the state

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PROCEDURE NO.	REVISION	CONTRACTOR OF STREET,	PAGENO	ter bi sa makara da akar kan baya mana manana
VEG1	27563-C	2		67 of 75
			Sheet	22 of 30
PROCEDURE STEP	DESCRIPTION	MAINT, INIT/DATE	HOLD	INIT/DATE
4.2.73.1	Hi Temp. JACKET WATER ALARM DE-ENERGIZED		(Yes/No)	
4.2.73.2	CONTACT OPEN	www.commonder.commonder.	THE PERSON NAMED IN	management at the
4.2.73.3	CONTACT OPEN		50.000 Vol - 600	remonandum cameran
4.2.73.4	TEMP. SENSOR MALFUNCTION ALARM			as meaning and as of the control of
4.2.73.5	TUBING E16-C Disconnected			- commence - definition continuents
4.2.73.5.1	Jacket Water Shutdow ALARM ENERGIZED	n /		anisanana sananaca sanan
4.2.74	TUBING LINES ELG-B AND C RECONNECTED	maran a maranananananananananananananananananana	Wit No. COLUMN CO.	
4.2.75	Disconnect Tubing E16-C	THE COLUMN TWO IS ASSESSED TO THE COLUMN TWO IS ASSESSED.	Marrie Annae Ma	
4.2.75.1	SENSOR MALFUNCTION			
4.2.75.2	TUBING E16-A Disconnected	manage insulation		
4.2.75.2.1	JACKETWATERS SHUTDOWN ALARM	e acres considerant acres as	William Control	/
4.2.76	TUBING E16-A and C RECONNECTED	N - NOW TO PER PERSON THE GENERAL THE GENERAL THE	Not the control of the section of th	
4.2.77.1	PRESSURE GAUGE READIN LESS THAN 25PSI	VG	No. of Concession	
4.2.77.2	BYPASS TEST FAILURE LIGHT DE-ENERGIZED	MINISTERNA STATEMENT DESIGNATION	AMERICAN	
4.2.77.3.1	BYPASS TEST FAILURE LIGHT ENERGIZED		***************************************	
4.2.78.1	SUMP TANK READING O.K.	come mon characterism	ASSESSMENTALANDS	-

			Sheet	23 of 30	
PROCEDURE	DESCRIPTION	MAINT. INIT/DATE	PODINT (Tess/No)	INIT/PATE	
4.2.79.1	DAY TANK READING	manuscript Lance script report	No design according to		
4.2.80.1	ALARMS ENERGIZED			/	
4.2.80.2	Horn Disconnected	manage of the comment			
4.2.62.1	LUBE OIL FILTER DIFFERENTIAL HIGH FUNCTIONS				
4.2.82.1.1	ALARM FUNCTIONS Correctly				
4.2.82.1.2	RELAY R38 ENERGIZED	***************************************		/	
4.2,82.1.3	CONTACT CLOSED			/	
4.2.82.2.1	ALARM FUNCTIONS CORRECTLY		THE PARTY AND ADDRESS.	The TENNET TO A STATE OF THE ASSESSMENT ASSE	
4.2.82.2.2	RELAY R38 ENERGIZED		10010010100000	monte and output residences assume	
4.2.82 3.1	ALARM FUNCTIONS CORRECTLY	· · · · · · · · · · · · · · · · · · ·	NUMBER OF SECTION	A CONTRACTOR OF THE PARTY OF TH	
4.2.82.3.2	RELAY R38 ENERGIZED			/	
4.2.82.4.1	ALARM FUNCTIONS CORRECTLY	nan na anan-banananan	STATISTICS CONCERNS	-	
4.2.82.4.2	RELAY R38 ENERGIZED			/	
4.2.82.5.1	ALARM FUNCTIONS			The state of the s	
4.2.82.6.1	ALARM FUNCTION CORRECTLY	neces and decrease as	OF A STREET PROVIDE ANALYSIS		
4.2.82.7.1	ALARM FUNCTIONS CORRECTLY	***************************************	MORREMONE AND A STATE OF THE ST	M. SERVICE M. SERVICE MANAGEMENT	
4.2.82.8.1	ALARM FUNCTIONS CORRECTLY	STANDON CONTRACTOR STANDS	Section of the Control of the Contro	Minimum to Suprementation of the Contract of t	

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PROCEDURE STEP	DESCRIPTION	MAINT. INIT/DATE	HOLD	24 of 30 QC INIT/DATE
4.2.82.9.1	ALARM FUNCTIONS CORRECTLY		(Yes/No)	/
4.2.82.9.2	RELAY R38 ENERGIZED		STEELS I BOURSE	A STATE OF THE PARTY OF T
4.2.82.10.1	ALARM FUNCTIONS			
4.2.82.10.2	RELAY R38 ENERGIZED	Contract Manual Contract Contr	Statement com-	
4.2.82.11.1	ALARM FUNCTIONS			
4.2.82.11.2	RELAY R38 ENERGIZED			Alexander of the second
4.2.82.12.1	ALARM FUNCTIONS CORRECTLY			1
4.2.82.12.2	RELAY R38 ENERGIZED		Assertance	/
4.2.82.13.1	ALARM FUNCTIONS		A Tomore A Tomore	/
4.2.82.14.1	ALARM FUNCTIONS CORRECTLY		NOTEST CANADA	/
4.2.82.15.1	ALARM FUNCTIONS			/
4.2.82.16.1	ALARM FUNCTIONS CORRECTLY			/
4.2.82.17.1	ALARM FUNCTIONS CORRECTLY			/
.2.82.17.2	RELAY R35 ENERGIZED	/		A STATE OF THE STATE OF T
4.2.82.18.1	ALARM FUNCTIONS	/		90.000 100 POLICIES VI VI VICENDA USBR

4.2.92.22

LINKS CLOSED

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PROCEDURE STEP	DESCRIPTION	MAINT. INIT/DATE	HOLD POINT (Yes/No)	INIT/DATE	
4.2.92.23	LINKS CLOSED	-			
4.2.92.24	LINKS CLOSED	1		SO THE REAL PROPERTY AND ADDRESS OF	
4.2.92.25	LINKS CLOSED			AMPRICAL IN CONTRACTOR ACCES	
4.2.92.26	LINKS CLOSED		NAMES OF STREET OF STREET	ACRES AND ASSESSMENT OF THE PROPERTY OF THE PR	
4.2.92.27	LINKS CLOSED				
4.2.92.28	LINKS CLOSED		MORENE AT CASE OF THE		
4.2.92.29	LINKS CLOSED	comments have been a	ALESSO MAY Manham	/	
4.2.92.30	LINKS CLOSED		Manager management		
4.2.92.31	LINKS CLOSED		Annual Contract Contr		
4.2.92.32	LINKS CLOSED	MATRICEN MINISTERIOR AND A	STANDARDONA	/	
4.2.92.33	LINKS CLOSED	manu and annument	Art Tolton Stephenson	/	
4.2.92.34	LINKS CLOSED		Marketinesiana	PERSONAL CONTRACTOR	
4.2.92.35	LINKS CLOSED				
4,2,92,36	LINKS CLOSED	es are me made an arrange man	on manufacture disease, div	A STATE OF THE PARTY OF T	
4.2.92.37	LINKS CLOSED	, ,		Military and the last front in the passenger	
4.2.93	TOGGLE SWITCHES		No this course desired		
4,2,94	ENGINE WIRE RECONNECTED	** ************************************			
4.2.95	ENGINE WIRE RECONNECTED	Torontorian in the Control of the Control	etrori mako et franzesa	***************************************	
4.2.96	WIRE 402 RECONNECTED	-	th core, braganic man		
4.2.97	JUMPER REMOVE	manus de describer	FORT PROLESSING 1	months of the same	

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PROCEDURE STEP	DESCRIP	TION	MAINT. INIT/DATE	HOLD POINT (Yes/No)	INIT/DA
4.2.98	JUMPER	REMOVE		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,
4.0.99	FREQUEN	CY GENERATOR		MOTO MISSISSIPA	
4.2.100	EQUIPME TO OPER CONDITI	NT RESTORED ATIONAL ON	/	Marriconside	6 micro-vericemus
4.2.101	SHIFT S NOTIFIE	UPERVISOR D	/	Nonember	renera renerale, es eren
Comments/Ad	ditional Ho	1d Points		Martin Martin	To Allen Sales Sal
			The read out out of the second second		AND THE OWNER OF THE REPORT AND ADDRESS OF THE OWNER
		rocedure for	Hold Points	SIGNA	TURE
APFROVED() I	DISAPPROVED	0	COMPLE	LED BA	DATE
	The second section is a second	TOTAL CONTRACTOR CONTR	MINISTER SAME OF TRACE		MARINENA MICHIGANA
		and coming parised.	Newspaperson and the second	- CANDESCRIPTION SHOPE A DISC SERVICE	

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