

SETTING	FUNCTION
A, C 3	200 PSIF STARTING AIR LEFT BANK
B, C 5	200 PSIF STARTING AIR RIGHT BANK
AA, P, C, D 9	25 PSIF UNIT TRIPPED
A, B, BB, AA, E, F 10	25 PSIF LOCK
B, D 13	25 PSIF BARRING DEVICE ENGAGED
C 14	45 PSIF HIGH TEMP JW TRIP
C 15	45 PSIF HIGH TEMP DEPAIRS TRIP
C 16	45 PSIF HIGH TEMP LO TRIP
C 17	20 PSIF Δ P LO FILTER
C 18	20 PSIF Δ P FUEL FILTER
C 19	45 PSIF TURBO OIL PRESS TRIP
C, D 20	20 PSIF TURBO OIL PRESS
C, D 22	15 PSIF LOW PRESS JW
D 23	25 PSIF LOCKED OUT W/DELAY
C 24	45 PSIF LO PRESS TRIP
C 25	45 PSIF LOW PRESS LO
C 26	45 PSIF VIBRATION TRIP
C 27	45 PSIF HIGH PRESS CO TRIP
C 28	20 PSIF LOW PRESS FO
C, D 29	25 PSIF OVERSPEED TRIP
A, B 30	25 PSIF FIELD FLASH
C 31	25 PSIF DC POWER AVAILABLE
C, D, E 32	25 PSIF STARTING
B, B, C, D, E, F, G 33	25 PSIF SYNCHRONIZER SPEED
C 34	25 PSIF READY TO LOAD
C, D 36	10 PSIF FUEL PUMP OS FAILURE
A, B, BB 40	25 PSIF MAINTENANCE / NORMAL

DELAVAL TO VERIFY & CORRECT

NOTES:

1. PNEUMATIC CONTROL MEDIUM IS AIR.
2. [Z] INDICATES 20 PSI CONTROL AIR.
3. SYSTEM SHOWN SHUTDOWN, IE PRESSURIZED & DE ENERGIZED.
4. SET TEST & TAG ALL SAFETY SENSORS.
5. PSIF INDICATES ACTUATION AT SETTING ON FALLING PRESS. PSIF INDICATES ACTUATION AT SETTING ON RISING PRESS.
6. SEE D 4903 FOR VALVE SYMBOLS.
7. [II] DENOTES SWAGELOCK BULKHEAD TUBE TERMINATION NEAR BOTTOM OF CABINET, IDENTIFY TERMINALS.
8. TUBING IS 1/4" O.D. COPPER EXCEPT AS NOTED, FITTINGS ARE BRASS.
9. FOR 3/8" EXTERNAL CONNECTIONS, SEE DRAWING NO. 31916. ALL LUBE OIL LINES ARE 3/8" EXTERNAL CONNECTIONS.
10. 1/4" TUBING IS RECOMMENDED FOR CONNECTION TO PANEL EXCEPT WHERE TERMINATION ON THIS DUG IS SHOWN 3/8"
11. IDENTIFY BOTH ENDS OF WIRES.
12. WHEN POWER IS APPLIED TRCH RELAY CONTACTS TRANSFER CONTACTS SHOW WITH POWER ON ENGINE STOPPED CONTACTS TRANSFER @ SETPOINT SPEED.
13. WIRING TO BE #14 GA STRANDED, TINNED, COPPER, LOCAL QUALIFIED, IEEE 523 # 383.
14. REMOVE RESISTOR IF REMOTE TRCH IS USED.
15. LIKE CONTACTS TO BE OPERATED SIMULTANEOUSLY IN A+B CIRCUITS.
16. JWILL SENSOR TO BE 35" RELAY @ OF JW INLET FLANGE ON STANDPIPE.
17. NO CONTACTS CLOSE TO ALARM, ALL OTHER ANNUNCIATORS OPEN TO ALARM.
18. RELAY R1 TRANSFERS WITH A START OR A: A STOP SIGNAL. RELAY R2 TRANSFERS 60 SEC AFTER A START OR AT A STOP.
19. MOUNT HIGH IN CABINET, CENTRALIZED
20. REMOVE JUMPER IF SERRE IS USED.
21. THERMOCOUPLE LEADS TO BE IRON CONSTANTAN.
22. NAMEPLATE COLOR CODE:
76001 & 76002 (TRAIN A) ORANGE LAMACOID.
76003 & 76004 (TRAIN B) GREEN LAMACOID.

- INDICATES LOCATION
- * PROVIDED BY OWNER
- 1 ON ENGINE
- 2 ON GENERATOR
- 3 IN CONTROL ROOM PANEL
- 4 ON HEAT EXCHANGER
- 5 ON HEATER
- 6 IN MCC
- 7 PART OF DRY TANK LEVEL SW.
- 8 PART OF DC STARTER AUX SKID
- 9 PART OF LUBE TANK SW.
- 10 ON AUX MODULE
- 11 IN GENERATOR PANEL
- 12 IN SWITCHGEAR
- 13 IN PANEL
- 14 ON STARTING AIR TANK
- 15 IN STANDPIPE
- 16 IN FUEL OIL TANK
- 17 IN HOT SHUTDOWN PANEL

ITEM	DESCRIPTION	PART NO.	QTY.	MFR.	ITEM	DESCRIPTION	PART NO.	QTY.	MFR.
1	SHUTDOWN LOGIC DC	IR 6147	1	DELAVAL	41	TOGGLE SW 2 POS	F-585-123	1	HUBBLE
2	MANOMETER	F-582-001	1	MERIAM	42	INTERIOR LIGHT	F-555-033	1	CROUSE HINDS
3	PRESS GAUGE 20-100 Hg	F-530-400	1	ROYLYN	43	CONVENIENCE OUTLET	F-581-024	1	HUBBLE
4	0-50	F-530-478	3	ASHCROFT	44	STRIP HEATER	F-535-395	2	GE
5	0-100	F-530-479	1		45	TEMP INDICATOR	F-578-047	1	DORIC
6	0-300	F-530-482	2		46	TC SELECTOR SW.	F-585-119	1	OMEGA
7	0-60 W/F	F-530-489	1		47	SOL VALVE 3-WAY 125VDC	F-586-061	15	HEMPHREY
8	0-30 W/F	F-530-488	1		48	TEMP SWITCH	F-593-012	1	FENWELL
9	0-100	F-530-330	1	MOORE	49	ARESA SWITCH DIFF	F-577-027	2	BARNSDALE
10	LEVEL GAUGE LUBE OIL	F-530-469	1	SIMMONS	50	3.5-90 P&I	F-577-045	52	
11	LEVEL GAUGE FUEL OIL	F-530-567	1	SIMMONS	51	10-250 PSI	F-577-045	4	
12	CHECK VALVE	F-573-127	2	CALCON	52	MOUNTMETER	F-561-014	1	WESTINGHOUSE
13	CHECK VALVE	F-573-375	2	M F M	53	PUSHBUTTON BLACK	F-578-003	6	FURNAS
14					54	SEL SWITCH 3 POS	F-555-004	9	
15	ORIFICE .014	F-573-133	3	CALCON	55	SEL SW 3 POS KEYED SPG-70 CTR	F-588-131	1	
16	PARALLEL ORIFICE CHECK .006	F-573-144	2	CALCON	56	RELAY 2 POLE AC	F-580-083	1	RD
17	SNUBBER	F-535-375	4	ASHCROFT	57	TC SETPOINT DUAL	F-540-105	4	ACTON-PARK
18	ACCUMULATOR 19.6 IN ³	F-573-326	5	BIMBA	58	TC SETPOINT	F-540-068	1	ACTON-PARK
19	SHUTTLE VALVE	F-573-128	3	HUMPHREY	59	24 VDC 2 POLE	F-580-094	1	P-B
20	3-WAY VALVE-MAN	F-573-389	2		60	24 VDC	F-580-021	1	P-B
21	NC	F-573-397	1		61	125VDC 8NC	F-580-186	3	P-B
22	NO	F-573-132	1		62	125VDC 6NC 2 NO	F-580-184	1	P-B
23	REGULATOR	F-579-061	1	BELLOFRAM	63	CAPACITOR	F-514-006	2	CONDOR
24	FILTER	F-527-002	1	NORGREN	64	TIME DELAY .5 TO 5 SEC	F-590-112	2	SYRACUSE
25	MANOMETER VALVE	F-573-299	1	WHITEY	65	.5 TO 15 SEC	F-590-113	3	
26	CIRCUIT BREAKER 10AMP DC	F-571-083	8	HEINERMAN	66	1.2 TO 120 SEC	F-590-117	1	
27	CIRCUIT BREAKER 10AMP AC	F-571-001	3	HEINERMAN	67	OVER/UNDER FREQUENCY RELAY	F-580-227	1	MILBURN
28	PRESS GAUGE 0-60 DUPLEX	F-530-125	1	ASHCROFT	68	AND ELEMENT; BASE MOUNT	F-573-072	1	RD
29					69	FUSE 3 AMP	F-523-032	2	BUSS
30	RELAY 2 POLE DC	F-580-076	1	A-B					
31	4	F-580-078	4						
32	2	F-580-080	2						
33	6	F-580-088	4						
34	UNDERVOLTAGE	F-580-213	2	WILMARR					
35	POWER SUPPLY	F-596-010	2	AIRPAX					
36	TRCH TRANSMITTER	F-594-048	2	AIRPAX					
37	RESISTOR 50 Ω	F-583-019	2	OHMITE					
38	TACHOMETER	F-594-043	1	GE					
39	ANNUNCIATOR	76001-128	1	ROMAN					
40	HORN	F-538-013	1	FEDERAL					

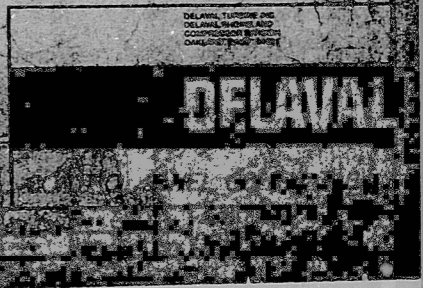
APPROVED EXCEPT AS NOTED
FOR ARRANGEMENTS
MADE BY THE USER
DELAVAL, TUBING AND
COMPRESSOR SYSTEMS
DIVISION, 200 WEST 42ND ST
NEW YORK, N.Y. 10018

APR 8 1980

DELAVAL & HILL, INC.
200 WEST 42ND ST
NEW YORK

TERA
APERTURE
CARD

TEXAS UTILITIES SERVICES, INC.
COMANCHE PEAK STEAM ELECTRIC STATION
UNITS 1 & 2



QTY	DATE	REMARKS
A	10/15/79	PER CUSTOMER REQUEST
B	1/17/80	PER CUSTOMER REQUEST
C	4/8/81	PER CUSTOMER REQUEST
D	1/25/81	UPGRADED W/TS 3.1
E	6/27/81	UPGRADED W/TS 3.1
F	10/27/81	UPGRADED W/TS 3.1
G	10/27/81	UPGRADED W/TS 3.1 & 3.4
H	1/27/82	UPGRADED W/TS 3.1
I	1/27/82	UPGRADED W/TS 3.1 & 3.4
J	1/27/82	UPGRADED W/TS 3.1
K	1/27/82	UPGRADED W/TS 3.1 & 3.4
L	1/27/82	UPGRADED W/TS 3.1
M	1/27/82	UPGRADED W/TS 3.1 & 3.4
N	1/27/82	UPGRADED W/TS 3.1
O	1/27/82	UPGRADED W/TS 3.1 & 3.4
P	1/27/82	UPGRADED W/TS 3.1
Q	1/27/82	UPGRADED W/TS 3.1 & 3.4

PDR

8007210514

