

CRITICAL INSTRUMENTS

EQUIPMENT ID	INSTRUMENT	FUNCTION	ALARM	TRIP	TEST FREQ. WEEKS
C-502	C-502 IPS	SHUT DOWN C-502 IN THE EVENT THE OIL PRESSURE DIF. PRESS. ACROSS THE COMPRESSOR DROP TO 15#		15PSI	52
	C-502 ITAS	SHUT DOWN C-502 IN THE EVENT THE DISCHARGE TEMPERATURE REACHES THE SET POINT		215 DEG. F	52
	C-502 3	SHUT DOWN COMP. IF VIBRATION REACHES SET POINT	SEE TABLE 1		26
GT-501A	CGA GT-501A	ALERT OPERATIONS OF DEVELOPING EXPLOSIVE MIXTURES IN AREAS MONITORED	20% LEVEL		13
	GT-501A 1	PREVENT START UP OF TURBINE WITH NO OIL PRESSURE AND COOL TURBINE BEARINGS AND SHAFT ON SHUT DOWN		8 PSI DEC. 12 PSI INC.	52
	GT-501A 2	SHUT DOWN TURBINE IF OIL TEMPERATURE REACHES 175 DEG. F. MINUS 5 DEG. F.	160 DEG. F	175 DEG. F.	52
	GT-501A 3	SHUT DOWN TURBINE ON LOW OIL PRESSURE		42 PSI	52
	GT-501A 4	SHUT DOWN TURBINE IF SPEED REACHES OVERSPEED SET POINT TO PREVENT TURBINE WRECK		23,600 RPM	26
	GT-501A 5	SHUT DOWN TURBINE IN THE EVENT AIR FILTER DIFF. PRES. REACHES SET POINT	2" WATER	3" WATER	52
	GT-501A 6	SHUT DOWN TURBINE IF VIBRATION REACHES SET POINT	SEE TABLE 1		30
	GT-501A 9	ENERGIZE ALARM WHEN EGT REACHES SET POINT SHUT DOWN TURBINE WHEN EGT REACHES SET POINT	1125 DEG.F.	1200 DEG. F.	52

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EQUIPMENT ID	INSTRUMENT	FUNCTION	ALARM	TRIP	TEST FREQ WEEKS
GT-501B	CGA GT-501B	ALERT OPERATIONS OF DEVELOPING EXPLOSIVE MIXTURES IN AREAS MONITORED	20% LEVEL		13
	GT-501B 1	PREVENT START UP OF TURBINE WITH NO OIL PRESSURE AND COOL TURBINE BEARINGS AND SHAFT ON SHUTDOWN		8 PSI DEC. 12 PSI INC.	52
	GT-501B 2	SHUT DOWN TURBINE IF OIL TERMPERATURE REACHES 175 DEG. F. PLUS OR MINUS 5 DEG. F.	160 DEG. F.	175 DEG. F	52
	GT-501B 3	SHUT DOWN TURBINE ON LOW OIL PRESSURE		42 PSI	52
	GT-501B 4	SHUT DOWN TURBINE IF SPEED REACHES OVERSPEED SET POINT TO PREVENT TURBINE WRECK.		23,600 RPM	26
	GT-501B 5	SHUT DOWN TURBINE IN THE EVENT AIR FILTER DIF. PRES. REACHES SET POINT.	2" WATER	3" WATER	52
	GT-501B 6	SHUT DOWN TURBINE IF VIBRATION REACHES SET POINT	SEE TABLE 1		30
	GT-501B 9	ENERGIZE ALARM WHEN EGT REACHES SET POINT SHUT DOWN TURBINE WHEN EGT REACHES SET POINT.	1125 DEG. F	1200 DEG. F.	52
GT-502	CGA GT-502	ALERT OPEATION OF DEVELOPING EXPLOSIVE MATERIALS IN AREAS MONITORED	20% LEVEL		13
	GT-502 1	PREVENT START UP OF TURBINE WITH NO OIL PRESSURE AND COOL TURBINE BEARINGS AND SHAFT ON SHUT DOWN		8 PSI DEC. 12 PSI INC.	52
	GT-502 2	SHUT DOWN TURBINE IF OIL TERMPERATURE REACHES 175 DEG. F. PLUS OR MINUS 5 DEG. F.	160 DEG. F.	175 DEG. F.	52
	GT-502 3	SHUT DOWN TURBINE ON LOW OIL PRESSURE		42 PSI	52

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	GT-502 4	SHUT DOWN TURBINE IF SPEED REACHES OVERSPEED SET POINT TO PREVENT TURBINE WRECK		23,600 RPM	26
	GT-502 4A	SHUT DOWN TURBINE IF TURBINE SPEED REACHES OVER SPEED SET POINT TO PREVENT TURBINE WRECK		23,600 RPM	26
	GT-502 5	SHUT DOWN TURBINE IN THE EVENT AIR FILTER DIF. PRES. REACHES SET POINT	2" WATER	3" WATER	52
	GT-502 6	SHUT DOWN TURBINE IF VIBRATION REACHES SET POINT	SEE TABLE 1		30
	GT-502 9	ENERGIZE ALARM WHEN EGT REACHES SET POINT SHUT DOWN TURBINE WHEN EGT REACHES TRIP SET POINT	1125 DEG. F.	1200 DEG. F	52
P-502	P-502 1	SHUT DOWN GT-502 IN THE EVENT P-502 SUCTION PRES. REACHES LOW SUCTION SET POINT		50 PSI	52
	P-502 2	SHUT DOWN GT-502 IF DISCHARGE PRESSURE REACH REACH HIGH DISCHARGE TRIP SET POINT		3500 PSI	52
	P-502 3	SHUT DOWN GT-502 IF P-502 CASE TEMPERATURE REACHES SET POINT	180 DEG.F.	195 DEG.F.	52
	P-502 4	SHUT DOWN GT-502 IF P-502 OIL PRESSURE DECREASES TO SET POINT		5 PSI	52
	P-502 5	SHUT DOWN GT-502 IN THE EVENT THE THRUST BEARING TEMPERATURE REACHES SET POINT		190 DEG. F.	52

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EQUIPMENT ID	INSTRUMENT	FUNCTION	ALARM	TRIP	TEST FREQ WEEKS
F-509	F-509 Dp	SHUTDOWN ASBESTOS BAG FILTER BLOWER BL 509 IN EVENT OF LOW FILTER DIFFERENTIAL PRESSURE		1.8 IN WATER	1
	PD 509	SHUTDOWN ASBESTOS BAG FILTER BLOWER BL 509 IN EVENT PARTICLES DETECTED		DETECTS PARTICLES	1

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