

## FRCSE LEVEL II GTCP95 PRE-START, SHUTDOWN AND EMERGENCY PROCEDURES CHECKLIST

<b>GTCP95 PRE-START CHECKLIST</b>	<b>CHECKED</b>
<b>NOTE:</b> Warm up time is 30 minutes for all equipment before adjustment. Pre-start instructions are per NAVAIR 17-15AH-39.	
<b>MAIN POWER DISTRIBUTION</b>	<b>CHECKED</b>
1. Close I & C RM circuit breaker.	
2. Rotate dimmer control to set desired illumination of I & C room.	
3. Close MAIN POWER circuit breaker.	
4. Close CONSOLE NO. 2 circuit breaker 115VAC 60HZ.	
5. Set power functions switch to MN PWR $\Phi$ A, MN PWR $\Phi$ B, and MN PWR $\Phi$ C.	
6. Close OUTSIDE circuit breaker to illuminate outside floodlights if needed.	
7. Close TEST CELL circuit breaker.	
8. Close HEAT-A/C circuit breaker. Set thermostat as needed.	
9. Close VENT FAN circuit breaker to start exhaust fan in engine test room.	
10. Close CONSOLE NO. 1 circuit breakers 115VAC 60HZ to provide power to digital panel meters and analog indicators.	
11. Close CONSOLE NO. 3 circuit breaker 115VAC 60HZ.	
<b>28 VDC POWER DISTRIBUTION</b>	<b>CHECKED</b>
12. Close 28VDC PWR SUP INPUT circuit breaker.	
13. Open bottom door of console NO. 1 to gain access to 28 vdc power supply. Close line breaker on power supply.	
14. Rotate CURRENT COARSE control fully clockwise.	
15. Adjust VOLTAGE COARSE and FINE controls on power supply for 28 volt indication on DC voltmeter. Close console door.	
16. Close 28VDC OUTPUT circuit breaker.	
17. Set power function switch to 0 - 28VDC. Meter shall indicate 24 to 32 volts.	
18. Close 28VDC circuit breakers for CONSOLE NO. 1, CONSOLE NO. 2, and CONSOLE NO. 3.	
19. Press ANNUN ACKNOW switch on instrument panel, or ANNUNCIATOR ACKNOWLEDGE switch on annunciator panel to silence alarm.	
20. Close CO2 SYS circuit breaker to apply 28VDC to fire extinguisher system.	
21. Close console NO. 2 circuit breaker.	
<b>GTC POWER DISTRIBUTION</b>	<b>CHECKED</b>
22. Close GTC POWER PANEL circuit breaker.	
<b>POWER MODULE</b>	<b>CHECKED</b>
23. Open door at power module, close circuit breaker, and close door.	
<b>LOAD BANK</b>	<b>CHECKED</b>
24. Prior to operation open hinged exhaust door.	
<b>COMMUNICATION SYSTEM</b>	<b>CHECKED</b>
25. Rotate VOL CONT at console 1 and at disconnect box to approximately mid-range.	
26. Set INTERCOM switch to ON.	
27. Connect headset to jack at each location and establish communication.	

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<b>COMMUNICATION SYSTEM (continued)</b>	<b>CHECKED</b>
28. Adjust INTERCOM AMP volume control until audio level is comfortable and undistorted.	
29. If more or less volume is desired at one station, adjust VOL CONT for that station.	
<b>FIRE DOOR SYSTEM</b>	<b>CHECKED</b>
30. Close the FIRE DOOR circuit breaker. Audible signal shall sound.	
31. Press ANNUNCIATOR ACKNOWLEDGE switch to silence alarm.	
32. On auxiliary controls panel, press FIRE DOOR OPEN switch/indicator.	
<b>ANNUNCIATOR SYSTEM</b>	<b>CHECKED</b>
33. Annunciator panel green indicators shall be illuminated as follows: CO2 SYS ON, POS VENT ON, OPEN FIRE DOOR.	
34. Press and hold ANNUNCIATOR TEST switch/indicator. Audible signal shall sound and all annunciator panel indicators shall illuminate.	
35. With ANNUNCIATOR TEST switch/indicator still depressed, press and hold ANNUNCIATOR ACKNOWLEDGE switch/indicator. Audible signal shall stop while indicators remain the same.	
36. Release ANNUNCIATOR TEST and ANNUNCIATOR ACKNOWLEDGE switch/indicators. Indicators shall return to normal.	
<b>TEMPERATURE SYSTEM CHECK</b>	<b>CHECKED</b>
37. I-C Temperature Indicator: Individually select channels 1 thru 12 and verify ambient temperature readings for installed thermocouples.	
38. C-A Temperature Indicator: Individually select channels 1 thru 12 and verify ambient temperature readings for installed thermocouples.	
<b>VIBRATION SYSTEM CHECK</b>	<b>CHECKED</b>
39. Channel A amplifier:	
a. Set XDUCER switch to ACC.	
b. Set FILTER switch to CAL.	
c. Set MODE switch to ACC.	
d. Set RANGE switch to 15.	
e. Determine sensitivity of accelerometer from its calibration card.	
f. Adjust CAL ADJ control to set indication equal to transducer sensitivity. For example, if transducer sensitivity is 11 pC/G, adjust for indication of 1.1 on meter.	
g. Set FILTER switch to SENS.	
h. Adjust SENS ADJ control for indication of 15 full scale on meter.	
i. Set FILTER switch to appropriate position.	
j. Set MODE switch to appropriate position.	
40. Channel B amplifier: Follow the same procedures for Channel A amplifier.	
<b>CALCULATING COUNTER PRESETS</b>	<b>CHECKED</b>
41. Set SAMPLE RATE to FAST mode.	
42. Press TEST pushbutton.	
43. Press channel buttons 1 thru 4 to indicate the preset for each channel. Refer to applicable adapter assembly manual for correct presets.	

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<b>CALCULATING COUNTER PRESETS (continued)</b>	<b>CHECKED</b>
44. Set CH4 switches for fuel flow in PPH by setting the switches as follows:	
a. DEC to 3.	
b. C to value determined by current specific gravity reading and the formula: $C = \frac{30,000 \times \text{specific gravity}}{\text{K factor of flow turbine}}$	
c. 10 <sup>n</sup> PERIODS to 0.	
d. AUTO to in.	
e. X10 to out.	
<b>AUXILIARY CONTROLS PANEL CHECK</b>	<b>CHECKED</b>
45. Push and then reset the EMERGENCY OFF switch.	
46. At FUEL SELECTOR press FUEL SYS SELECT switch to desired fuel flow	
<b>TEMPERATURE SYSTEM CHECK</b>	<b>CHECKED</b>
37. I-C Temperature Indicator: Individually select channels 1 thru 12 and verify ambient temperature readings for installed thermocouples.	
38. C-A Temperature Indicator: Individually select channels 1 thru 12 and verify ambient temperature readings for installed thermocouples.	

<b>GTCP95 SHUTDOWN CHECKLIST</b>	<b>CHECKED</b>
1. On auxiliary controls panel, press FIRE DOOR CLOSE switch/indicator. Audible signal will sound	
2. Press ANNUNCIATOR ACKNOWLEDGE switch to silence audible signal.	
3. Open all circuit breakers on circuit breaker panel except I & C RM and MAIN POWER circuit breakers.	
4. Open door at power module, open circuit breaker, close door.	
5. Close exhaust door on load bank.	

<b>GTCP95 EMERGENCY SHUTDOWN CHECKLIST</b>	<b>CHECKED</b>
1. Evacuate all personnel from engine test room.	
2. Press EMERGENCY OFF switch.	
<b>IN CASE OF ENGINE TEST ROOM FIRE</b>	
1. Lift guard and press FIRE EXT SYS ACTIVATE switch/indicator. Fire doors will close, run room lights will flash, external horn activates and CO2 is discharged from the flood nozzles in engine test room.	
2. If FIRE EXT SYS ACTIVATE fails to discharge CO2, operate manual release on panel immediately above hand held fire bottle as follows: Break shear wire and pull pin, depress and hold lever.	
<b>IN CASE OF I &amp; C ROOM FIRE</b>	
1. Open MAIN POWER circuit breaker.	
2. Using hand held fire bottle at left of console 4, extinguish fire.	
3. Open I & C RM circuit breaker only if there is a problem in the circuit.	
4. Evacuate shelter and close all shelter doors.	