

**7.0 FREE TURBINE RECORD OF TEST, DATA SHEET****JOB ORDER NUMBER: 13143****CUSTOMER: WGPW****MODEL: FT4 A-11****FT SERIAL NUMBER: 600425****ROTATION: CW\_\_\_ CCW X**

| <u>POINT</u>                     | LIMITS         | Initial Testing Sequence                     |                                         |                                        |                                              | Final Acceptance Test                  |                                      |                                              |
|----------------------------------|----------------|----------------------------------------------|-----------------------------------------|----------------------------------------|----------------------------------------------|----------------------------------------|--------------------------------------|----------------------------------------------|
|                                  |                | GG<br>IDLE<br>OR<br>6000 N2<br>+/- 50<br>RPM | RATED<br>SPEED<br>3600<br>+/- 50<br>RPM | OVER<br>SPEED<br>3800<br>+/- 50<br>RPM | GG<br>IDLE<br>OR<br>6000 N2<br>+/- 50<br>RPM | OVER<br>SPEED<br>3800<br>+/- 50<br>RPM | RATED<br>SPEED<br>3600 +/-<br>50 RPM | GG<br>IDLE<br>OR<br>6000 N2<br>+/- 50<br>RPM |
| TIME                             | N/A            | 19:47                                        | 19:51                                   | 19:56                                  | 19:59                                        | 20:04                                  | 20:20                                | 20:22                                        |
| <b><i>Free Turbine Data</i></b>  |                |                                              |                                         |                                        |                                              |                                        |                                      |                                              |
| N3 CONTL. RPM                    | N/A            | 2831                                         | 3013                                    | 3597                                   | 3813                                         | 3013                                   | 3609                                 | 2817                                         |
| N3 CUST. RPM                     | N/A            | 2831                                         | 3013                                    | 3597                                   | 3813                                         | 3013                                   | 3609                                 | 2817                                         |
| N3 SPARE RPM                     | N/A            | 2832                                         | 3015                                    | 3599                                   | 3815                                         | 3015                                   | 3611                                 | 2819                                         |
| (PMOP) PSIA                      | 35 -50 PSIA    | 39                                           | 40                                      | 45                                     | 48                                           | 41                                     | 45                                   | 40                                           |
| (POILS) PSIA                     | 35 – 50 PSIA   | 38                                           | 40                                      | 44                                     | 47                                           | 40                                     | 45                                   | 39                                           |
| (DPMOP) PSID                     | 0 – 5 PSID     | 1                                            | 0                                       | 1                                      | 1                                            | 1                                      | 0                                    | 1                                            |
| (TORET) °F                       | 120 – 220 °F   | 151                                          | 158                                     | 183                                    | 183                                          | 174                                    | 179                                  | 168                                          |
| (TOSUPT) °F                      | 120 – 220 °F   | 121                                          | 140                                     | 162                                    | 143                                          | 155                                    | 156                                  | 133                                          |
| (PFTBP) PSIA                     | 2.0” Hg.       | 0.2                                          | 0.2                                     | 0.2                                    | 0.2                                          | 0.2                                    | 0.2                                  | 0.2                                          |
| (PS3UP) PSIA                     | 12 – 26 PSIA   | 20.3                                         | 20.7                                    | 22.5                                   | 23.3                                         | 20.7                                   | 22.5                                 | 20.2                                         |
| FRONT (VF90) mils p/p            | 1.4 mils p/p   | 0.06                                         | 0.12                                    | 0.67                                   | 0.78                                         | 0.08                                   | 0.85                                 | 0.06                                         |
| REAR (VR45) mils p/p             | 1.4 mils p/p   | 0.09                                         | 0.10                                    | 0.34                                   | 0.41                                         | 0.08                                   | 0.22                                 | 0.06                                         |
| N3 CONTL. VOLTS                  | 2 – 8 volts AC | 4.0                                          | 4.2                                     | 4.9                                    | 5.2                                          | 4.2                                    | 5.0                                  | 3.9                                          |
| N3 CUST. VOLTS                   | 2 – 8 volts AC | 4.0                                          | 4.2                                     | 4.9                                    | 5.2                                          | 4.2                                    | 5.0                                  | 3.9                                          |
| N3 SPARE VOLTS                   | 2 – 8 volts AC | 4.2                                          | 4.5                                     | 5.4                                    | 5.7                                          | 4.5                                    | 5.2                                  | 4.2                                          |
| <b><i>Gas Generator Data</i></b> |                |                                              |                                         |                                        |                                              |                                        |                                      |                                              |
| N2 RPM                           |                | 6007                                         | 6180                                    | 6639                                   | 6777                                         | 6185                                   | 6647                                 | 5995                                         |
| Oil Pressure In (PSIG)           | 50             | 48                                           | 48                                      | 49                                     | 49                                           | 48                                     | 49                                   | 47                                           |
| Oil Temperature (°F)             | 220            | 174                                          | 177                                     | 172                                    | 177                                          | 171                                    | 176                                  | 171                                          |
| Tt7 (°F average)                 |                | 549                                          | 556                                     | 585                                    | 596                                          | 555                                    | 584                                  | 547                                          |
| Ps4 (psig)                       |                | 20.3                                         | 20.7                                    | 22.5                                   | 23.3                                         | 20.7                                   | 22.5                                 | 20.2                                         |

**Operator 1 Todd Munsell****Operator 2 Eric Rohver****RECORD RUN DOWN TIME (from 1200 N3 RPM): 8:45****RECORD #8 REAR CARBON SEAL LEAKAGE: 2.0 CC (LIMIT 4 CC/HOUR)****CHECK OIL FILTER: OK: OK CONTAMINATION FOUND: None****TEST ACCEPTANCE: PASS X FAIL\_\_\_\_\_****AUTHORIZED BY: William T. Barnett TITLE: Engineering Manager DATE: 15 August, 2008****CUST. APPROVAL:****TITLE:****DATE:**