

August 17, 2008

TEGA_UHF_Char_v2_r1

TEGA UHF Characterization

Reconciled with block: tega_uhf_char_r4

Objectives:

Power on and perform a ramp during a UHF pass.

Configuration:

Inputs:

Filament = 1

Multiplier Voltage: = 3300

Pre-heat duration: minimum 30 seconds

Select TA #: oven_ID = _____

Ramp_time = 3003

Pass_duration = 900

Constraints: Start 15 minutes before the start of the pass

Gases Used: None

Filaments Used: 1

LOW Emission

SW Version (386) V513 SW Version (EGA): V321

Sweep and hop mode version(s): MODE TABLE V123

Super modes and Sweep modes used: Supermodes 1, 14

Supermodes running in ramp: 14

Note: TEGA is checked to see if TEGA is safed. If so, abort self to end activity

1. Turn ON TEGA – Call TEGA_power_on
 - 1.1.1. TEGA_MAIN1_PWR "ON"
 - 1.1.2. TEGA_MAIN2_PWR "ON"
 - 1.1.3. TEGA_MAIN3_PWR "ON"
 - 1.1.4. Start the TEGA 386 FSW
2. Pause 3 Minutes (collect engineering data at a high rate before turning down)
3. Call Sequence 30A
4. Pause 30 seconds (set by minimum preheat duration of 30 seconds)
5. Turn on EGA
 - 5.1.1. TEGA/FSW:EGA:Change EGA State
 - 5.1.2. Restore the modes from EEPROM 0
 - 5.1.3. EGA Commands:Restore Mode
 - 5.1.4. Run mode 37
6. Call tega_ega_prep filament 1, mult volt
 - 6.1.1.1. Sets JPlate 0 to -107V
 - 6.1.1.2. Sets Jplate 1 to -92V
 - 6.1.1.3. Start SM 1 pause 1 sec
 - 6.1.1.4. Set MV 3300V Pause 1 sec
 - 6.1.1.5. Ion Pump ON
 - 6.1.1.6. Pause 1 second
 - 6.1.1.7. Emission ON
 - 6.1.1.8. Pause 2 Minutes
 - 6.1.1.9. Stop SM 1
7. Execute 32A (sets timers)
8. Call tega_select_oven oven_id = _____
8. Turn up readings on selected item (collect on timer 1)
 - 8.1 mem_shld_err
 - 8.2 mem_oven_err
 - 8.3 mem_shld_int_hi
 - 8.4 mem_shld_int_lo
 - 8.5 mem_oven_int_hi
 - 8.6 mem_oven_int_lo
 - 8.7 ta_shld_temp
 - 8.8 ta_oven_temp
9. Set timer 2 to 1 second

10. Execute 20A (sets timers)
11. Set GV model power for ramp
12. Set OV_START_Val = _____
13. Set SH_START_Val = _____
14. Set T_START_Val = _____
15. Start Ramp - Side A Start Segment 101, number of segments 2
16. Pause 5 minutes, then delay by pass_duration
17. Pause 3 minutes, then abort ramp
18. Turn off EGA: CALL tega_ega_off
 - 18.1.1. EGA Shutdown:
 - 18.1.2. Multiplier Voltage OFF
 - 18.1.3. Wait 5 secs
 - 18.1.4. Emission Off
 - 18.1.5. Wait 5 secs
 - 18.1.6. Ion Pump Control OFF
 - 18.1.7. Activate Sequence 7A to turn the EGA OFF
19. Turn off TEGA: CALL tega_power_off
 - 19.1.1. Turn off the third TEGA switch
 - 19.1.2. Turn off the second TEGA switch
 - 19.1.3. Turn off the first TEGA switch
 - 19.1.4. FPGA Dump – Aker Valve state