

## **S3 Countdown Checklist**

### **T 1:39:00**

Turn on commanders comm ( Panel O5 )

- Set XMIT ICOM MODE switches to VOX/VOX
- Set A/G ( air to ground ) 1 and 2
- Set A/A ( air to air ) to T/R ( transmit and receive )
- Set ICOM ( intercom) 1 and 2
- Set POWER to AUD/TONE

### **T 1:34:00**

Turn on pilots comm ( Panel O9 )

- Set XMIT ICOM MODE switches to VOX/VOX
- Set A/G ( air to ground ) 1 and 2
- Set A/A ( air to air ) to T/R ( transmit and receive )
- Set ICOM ( intercom) 1 and 2
- Set POWER to AUD/TONE

### **T 1:20:00**

Abort light on for 8 seconds ( Panel F6 )

### **T 1:10:00**

Side hatch secured

### **T 1:05:00**

Close Cabin Vent ( Panel L2 )

- Flip VENT ISOL
- Flip VENT

### **T 0:50:00**

IMU complete

**T 0:49:00**

Boiler Checks ( Panel R2 )

- + BOILER POWER 1/2/3 ON
- + BOILER N2 1/2/3 ON
- + BOILER CNTLR/HTR 1/2/3 position A
- + WSB prestart

**T 0:31:00**

Backup flight control ( Panel C3 )

- + BFC CRT SELECT to 3+1
- Key in ITEM 25 EXEC

**T 0:30:00**

OPS (Panel C3 )

- Key in OPS 9 PRO

Open Cabin Vent ( Panel L2 )

- Flip VENT ISOL
- Flip VENT

**T 0:25:00**

Voice Check

**T 0:21:00**

Close Cabin Vent ( Panel L2 )

- Flip VENT ISOL
- Flip VENT

**T 0:20:00**

Load OPS 1 Keypad ( Panel O3 )

- Key in SPEC 99 PRO
- Key in OPS 101 PRO

**T 0:16:00**

Helium pressure of MPS ( Panel O3 )

- Set He ISOLATION A LEFT/CTR/RIGHT to OPEN
- Set He ISOLATION B LEFT/CTR/RIGHT to OPEN
- Set PNEUMATICS He ISOL to OPEN
- Set all six ENGINE POWER to ON

**T 0:14:00**

Abort light on for 8 seconds ( Panel F6 )

**T 0:09:00**

Hold Timer set ( Panel C3 )

- Set thumbwheel to 0900
- TIMER to SET
- EVENT TIMER MODE DOWN
- EVENT TIMER CONTROL START

**T 0:07:00**

APU prestart checks ( Panel R2 )

- + APU FUEL TK VLV 1/2/3 CLOSED
- + APU AUTO SHUT DOWN 1/2/3 ENABLE
- + HYD MAIN PUMP PRESS 1/2/3 LOW
- + APU SPEED SELECT 1/2/3 NORM
- + HYD CIRC PUMP 1/2/3 GPC
- Set APU CNTLR PWR 1/2/3 ON

**T 0:05:00**

Start APU ( Panel R2 )

- APU FUEL TK VLV 1/2/3 OPEN
- HYD CIRC PUMP 1/2/3 OFF
- APU OPERATE 1/2/3 START/RUN
- + APU/HYD READY TO START indicators GRAY

MFD Display check ( Panel F7 )

- + HYD/APU MFD2 Meter 900psi

Start APU ( Panel R2 )

- HYD MAIN PUMP PRESS 1/2/3 NORM

**T 0:04:30**

External power disconnect

**T 0:03:45**

Gimbal check

**T 0:02:50**

External liquid oxygen vent closed

**T 0:02:00**

APU auto shut down inhibit ( Panel R2 )

- Set APU AUTO SHUT DOWN 1/2/3 INHIBIT

Bus ( Panel R1 )

- Set AC BUS SNSR 1/2/3 to MONITOR

**T 0:00:00**

Lift off mission event timer begins