NODE 1/PMA 1 HEATER CHECKOUT

1. RECORD SETPOINTS AND AVAILABILITY FOR HEATER TO BE CHECKED OUT

PCS Node 1: TCS

NODE1: TCS

> NOTE
> Heater setpoints and availability will be returned to their original values at the end of this procedure; therefore, the values for these parameters are recorded. The recorded values are used in step 7.

Availability = _____

sel PMA1(NODE1) Htr[X]A(B)

PMA1(Nod1) Htr[X]

Upper Setpoint: _____ deg C
Failure Upper Limit: _____ deg C
Lower Setpoint: _____ deg C
Failure Lower Limit: _____ deg C
Cyclic Load Delta: _____ deg C

2. INHIBIT HEATER TO BE CHECKED OUT

PCS Node 1: TCS

NODE1: TCS

If PMA1(NODE1) Htr[X]A(B) Availabilty NOT Inh

sel PMA1(NODE1) Htr[X]A(B)

PMA1(Nod1) Htr[X]

sel PMA1(Nod1) Htr[X]A(B) Htr Commands

PMA1(Nod1) Htr[X]A(B) COMMANDS

cmd Inh **Execute**

PMA1(Nod1) Htr[X]

√PMA1(Nod1) Htr[X]A(B) Availbty - Inh

3. MODIFY SETPOINTS FOR HEATER TO BE CHECKED OUT

PCS Node 1: TCS

NODE1: TCS

sel PMA1(NODE1) Htr[X]A(B)

PMA1(Nod1) Htr[X]

sel PMA1(Nod1) Htr[X]A(B) Htr Commands

PMA1(Nod1) Htr[X]A(B) COMMANDS

NOTE
As depicted on the PCS NODE 1 TCS display, ten of the eighteen Node 1 Heaters have two temperature sensors (Heaters 1A, 1B, 3A, 3B, 5A, 5B, 6A, 6B, 7A, and 7B). For these heaters, setpoints for both temperature sensors must be changed.

cmd Update PMA1(Nod1) Htr[X]A(B) Temp Snsr Setpts
sel Upper Setpoint: 27 deg C
Failure Upper Limit: 45 deg C
Lower Setpoint: 21 deg C
Failure Lower Limit: -29 deg C
Cyclic Load Delta: -12.2 deg C **Execute**

PMA1(Nod1) Htr[X]A(B)

√PMA1(Nod1) Htr[X]A(B) Upper Setpoint: 27 deg C
√Failure Upper Limit: 45 deg C
√Lower Setpoint: 21 deg C
√Failure Lower Limit: -29 deg C
√Cyclic Load Delta: -12.2 deg C

4. ENABLE HEATER TO BE CHECKED OUT

PCS Node 1: TCS

NODE1: TCS

sel PMA1(NODE1) Htr[X]A(B)

PMA1(Nod1) Htr[X]

sel PMA1(Nod1) Htr[X]A(B) Htr Commands

PMA1(Nod1) Htr[X]A(B) COMMANDS

cmd Ena Opr **Execute**

PMA1(Nod1) Htr[X]

√PMA1(Nod1) Htr[X(Y)]B Availbty - Ena Opr

5. <u>VERIFY HEATER TURNED ON</u>

PCS Node 1: TCS

NODE1: TCS

sel PMA1(NODE1) Htr[X]A(B)

PMA1(Nod1) Htr[X]

√PMA1(Nod1) Htr[X]A(B) Cmd Stat - On

√PMA1(Nod1) Htr[X]A(B) RPCM [...] Position - Cl

6. <u>INHIBIT HEATER BEING CHECKED OUT</u>

PCS Node 1: TCS

NODE1: TCS

sel PMA1(NODE1) Htr[X]A(B)

PMA1(Nod1) Htr[X]

sel PMA1(Nod1) Htr[X]A(B) Htr Commands

PMA1(Nod1) Htr[X]A(B) COMMANDS

cmd Inh **Execute**

PMA1(Nod1) Htr[X]

√PMA1(Nod1) Htr[X(Y)]B Availbty - Inh

7. <u>RETURN HEATER SETPOINTS AND AVAILABILITY TO ORIGINAL VALUES</u>

PCS Node 1: TCS

NODE1: TCS

sel PMA1(NODE1) Htr[X]A(B)

PMA1(Nod1) Htr[X]

sel PMA1(Nod1) Htr[X]A(B) Htr Commands

PMA1(Nod1) Htr[X]A(B) COMMANDS

<u>NOTE</u>

As depicted on the PCS NODE 1 TCS display, ten of the eighteen Node 1 Heaters have two temperature sensors (Heaters 1A, 1B, 3A, 3B, 5A, 5B, 6A, 6B, 7A, and 7B). For these heaters, setpoints for both temperature sensors must be changed.

cmd Update PMA1(Nod1) Htr[X]A(B) Temp Snsr Setpts
sel Upper Setpoint: Value in step 1 deg C
Failure Upper Limit: Value in step 1 deg C
Lower Setpoint: Value in step 1 deg C
Failure Lower Limit: Value in step 1 deg C
Cyclic Load Delta: Value in step 1 deg C **Execute**

PMA1(Nod1) Htr[X]A(B)

√PMA1(Nod1) Htr[X]A(B) Upper Setpoint: Value in step 1 deg C
√Failure Upper Limit: Value in step 1 deg C
√Lower Setpoint: Value in step 1 deg C
√Failure Lower Limit: Value in step 1 deg C
√Cyclic Load Delta: Value in step 1 deg C

sel PMA1(Nod1) Htr[X]A(B) Htr Commands

PMA1(Nod1) Htr[X]A(B) COMMANDS

cmd Value in Step 1 **Execute**

PMA1(Nod1) Htr[X]

√PMA1(Nod1) Htr[X(Y)]B Availbty - Value in step 1