PCU Valve Closure

1. <u>Verify NCS Status</u>

PCS Node1: EPS Software NCS

EPS Software NCS

'MDM N1-2'
If State - Primary
✓PCU Control Ena - Ena
✓PCU Control Init - Init

If State - not Primary
'MDM N1-1'
✓PCU Control Ena - Ena
✓PCU Control Init - Init

```
*********************************************
*   sel SW Config                           *
*                                           *
```

NCS Software Configuration

```
*   'PCU Control'                           *
*   cmd Enable Execute                      *
*********************************************
```

2. <u>Supply Power to PCUs</u>

Z1: EPS
sel PCU 1 (2)

PCU 1 (2)

sel RPC 15
cmd Close **Execute**
✓Position - Cl

3. <u>Verify initial PCU status</u>

'PEU'
✓Operational Status - Purge
✓Integration Counter - Incrementing

4. <u>Close PCU Valves</u>

sel Operational Status
cmd PCU_1(2)_to_Shutdwn_Arm
cmd PCU_1(2)_to_Shutdwn
✓Latch Vlv 1 - Cl
wait for Discharge Pressure < 228.9 kPa
✓Latch Vlv 2 - Cl
✓Operational Status - Shutdwn
Record Time : __/___:___:___ GMT

5. Remove Power from PCUs

NOTE

1. If Station/Shuttle unmating power requirements allow, leave PCUs on for 3A increment cathode conditioning.
2. Cathode conditioning procedure can be performed if conditions allow. 12 hours must have elapsed since valve closure.

Node1: C&DH: MDM N1-2

Primary NCS MDM
Node1

sel UB EPS_N1-23 (14)
sel RT Status
sel Ena_Inh RT Commands

cmd Inhib_PCU_1(2) **Execute**
✓RT Inhibit 28 - Inh

Z1: EPS
sel PCU 1 (2)

PCU 1 (2)

sel RPC 15
cmd Open **Execute**
✓Position - Op