ECLSS

NODE 1 IMV AFT PORT FAN FAILURE

BACKUP C/W

(F7)

S210 ISS C&W CAUT

EPCS C&W Sum

C/W Summary

IMV Aft Port Fan Fail Low/Hi - Nod1

If IMV fan speed
< 9500 rpm or
> 7462 rpm

Nominal Config:

Node1: Aft Port IMV Fan

'RPCM N14B C RPC 12'
RPC 12 Position - Cl
RPC 12 Tripped - False
Open Cmd - Ena
Close Cmd - Ena
'Nod1 Aft Port IMV Fan'
Spd, rpm = 7462 -- 9500
Stat - On
Node 1: ECLSS: FDIR
Nod1 FDIR Details
N1-1 - MDM IMV FDIR Stat - Ena
N1-2 - MDM IMV FDIR Stat - Ena

1 Check RPC Status

Node 1: ECLSS: Aft Port IMV Fan

Node 1: Aft Port IMV Fan

'RPCM N14B C RPC 12'

Tripped - True ?

Yes → **2** Power malfunction → **3**
- Perform RPC TRIP OR POWER LOSS (ISS MAL: EPS).
- Acknowledge C&W.

No ↓

4
- Check Outlet Diffusers

Blocked ?

Yes → **5** Possible Fan Overheat → **6**
- Clear and remove blockage.
- Attempt restart of fan.

→ **7**

No ↓

6 → **7**

7 Attempt Cycle RPC and Restart. (1)

'RPCM N14B C RPC 12'
- sel RPC Commands
- **cmd** Open **Execute**
- √Position - Op
- cmd Close Execute
- √Position - Cl

'Nod1 Aft Port IMV Fan'
- sel Fan Commands
- **cmd** Off **Execute**
- √Stat - Off
- sel Fan Commands
- cmd On Execute
- √Stat - In Trans
- Wait 15 seconds.
- √Stat - On
- √Spd, rpm = 7462 -- 9500

Fan shut down again?

No → **8** Transient shutdown → **9**
- Continue normal operations

Yes ↓

10 Suspect fan failure

11 Post Failure Recovery.

- Deactivate Aft port IMV Fan.

'Nod 1: Aft Port IMV Fan'
- sel Fan Commands
- **cmd** Off **Execute**
- √Stat - Off

'RPCM N14B C RPC 12'
- sel RPC Commands
- **cmd** Open **Execute**
- √Position - Op

If FGB Ingress concurrent
- Contact **MCC-H** for limited stay time in FGB

(1) Motor windings have internal thermister for overheat protection. Motor requires cool down to recover fan function.

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