



DPS YERO FDF Issues

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Malfunction Procedures

- Common Set Split – Has the crew bring a G2FD and will obtain time from MTU causing the GPC time to step back to day 0.
 - 1st option is to work procedure as written taking the risk of software problems due to the time jump or powering off the MTU. This would take the crew about 30-45 minutes to complete. The crew would work YERO part 2 and 3 at wake-up.
 - 2nd option is to have the crew work part 2 of the YERO procedure using GPC 2 and 3 only. This could take up to 1.5 hrs to complete and require real-time deltas to the procedure. At crew wake they would work YERO Part 3.
 - 3rd option it do nothing and work the issue at crew wake. No auto antennas since the SM is not receiving a vector from GNC

Malfunction Procedures cont.

- TIME MTU Fault Summary Message – GPCs already on GPC time and in the unlikely event of a GPC switch, DPS would require no action. (This would be an indication of a timing problem and could lead to a FTS/Common Set Split)

Orbit Pocket C/L

- G2FD Activate – Running the procedure as written will have the newly activated GPC come up on MTU time and flight software has not approved this step back in time.
 - Work around is to modify the procedure to leave the SM up and when the FD is activated it will come up on GPC 4 time.
- BFS Engage – If condition warrants a BFS engage I believe we should start working Part 2 of the YERO procedure to recover PASS.

Orbit Pocket C/L cont.

- FF(FA) MDM Output - If troubleshooting is no joy, the procedure has the crew work G2FD Activate.
 - 1st option is to power of an MDM and send the crew back to bed.
 - We can pick which MDM (the FF or the FA).
 - 2nd option to go ahead and work G2FD Activate with deltas previously mentioned.
 - I recommend option 1.
- PASS GPC BITE – calls the crew to work G2FD Activate or SM GPC Fail. (SM Fails has no issues)
 - Could entertain taking no action for a single bite. GPC is considered transient per the flight rules.