

MSFC Status

ExPCP #40

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Lori Manis
Planning, Operations, and Analysis Branch/EO10
256-544-2942
lori.manis@nasa.gov



★ Accomplishments

- ◆ Preparing for increases in Utilization hours
 - ◆ ISS Program direction is to prepare for “High Ops Tempo” to average ~70 hours/week with surges to 100hours/week (Current expectation is 35 hours per week minimum)

Increment Pair	USOS Utilization	NASA PL on RS crew
43/44	38:25 hrs/wk	85.5 hrs
45/46	38:19 hrs/wk	60.42 hrs
47/48	44:57 hrs/wk	32.5 hrs

- ◆ POIF Teams have partially implemented Special Study Team ops concepts by updating staffing, products, and processes.
- ◆ Removed CPS dependencies:
 - ◆ Data Set managed in WebAD
 - ◆ Planning, Scheduling, and RT re-planning done in Score
 - ◆ HDS utility removed; OPTIMIS Web Service utilized



Current Work

- ◆ Prepping for Inc. 49/50
 - ◆ Preliminary OOS TIM just completed at JAXA
 - ◆ Increment Pair TCO Lead implemented
 - ◆ Final OOS TIM Starts July 25th

- ◆ Special Study Team work continues to prepare for “High Ops Tempo” (details next charts)

- ◆ Revolutionize ISS for Science and Exploration (RISE) effort continues (separate presentation Tuesday)



Special Study Team Status

- ◆ Continuing to refine process updates for High Ops Tempo
- ◆ Teams in POIF are vetting ops concepts in both simulation and execution environments:
 - ◆ Simulation – late June – layout and communication assessment
 - ◆ Demo – mid-August – objectives and fidelity TBD
 - ◆ TCO staffing unchanged
 - ✦ Currently, plans are handed over to the POIF FCT at E-3 (Orbit3)
 - ✦ Full implementation sees plans handed over at E-1 (Orbit 3)
 - ◆ PREP TCO staffing updated
 - ✦ Currently, PREP TCO has additional help rotating each week
 - ✦ Full implementation = IL TCO + PREP TCO (3 total people dedicated to Inc pair; 2 PREP TCOs rotate weekly)
 - ◆ Additional PPM staffed for WLP development on weeks with >70 hours USOS crew time



Special Study Team Status

- ◆ Completed the first demo on April 11-15, 2016
- ◆ TCO:
 - ◆ Limited objectives were focused on internal communication and collaboration but also minimized plan review by the POIF FCT
 - ◆ Challenging to monitor RT support during dedicated plan reviews
- ◆ PPM:
 - ◆ Additional PPM for WLP development worked well
 - ◆ Exercised the roles of IL OC and IL DMC in WLP and E-7 timeline reviews
- ◆ Forward work for future demos:
 - ◆ Refine roles for IL TCO and PREP TCO
 - ◆ Continue to refine role of TCO as PCA-1 bridge for future timeline days
 - ◆ Add IL TCO into WLP and E-7 timeline review processes
 - ◆ Better define WLP and E-7 timeline review processes for PPM, IL OC, IL DMC and IL TCO



★ Revolutionize ISS for Science and Exploration

- ◆ Continuing to work on process updates for all aspects of NASA payload operations
- ◆ The current status including proposed updates to the OOS process will be presented on Tuesday afternoon



Future Work



- ◆ Complete Inc. 49/50 OOS development and begin console ops in mid-August
- ◆ Begin data collection for Inc. 51/52 in August
- ◆ Continue to refine process updates for RISE within NASA and with the Partners
- ◆ Continue to prepare for NASA utilization High Ops Tempo
 - ◆ Second demo week in August, with longer demos in the future
 - ◆ Staffing increases and training on-going
- ◆ Continue collaboration with ExPCP working groups to update documentation and improve planning processes