

## **Monday 9/14/09 – NPP Integration Working Group (NIWG) Face to Face**

DMT Representation: Walt Miller

Janice Smith from the NASA NPP Program Office led the discussion on Monday covering the Technical Baseline and Requirements Criticality. The Technical Baseline is an effort to ensure that the documentation being used to develop NPP software is the latest version. They are working through each organization to collect this information. Mission Criticality is an effort to assign each Level two requirement as Mission Readiness (MR) meaning it has to be in place and verified before launch and Mission Success (MS) meaning it can be completed after launch. CERES received an action item to provide the information for our requirements within a month (Bob Schweiss to CERES). CERES has thought about this before, but it would be worthwhile to document all CERES Level fours that are MR.

## **Tuesday 9/15/09 – NIWG Face to Face day two**

DMT Representation: Walt Miller (AM session only)

Janice Smith and Glenn Iona led discussions on schedule planning for an **NPP launch slip of RLD to March 24, 2011** with the NPP Integration Working Group. The driving factor for this is that 14 months are needed after the last instrument is on the hook. †VIIRS Pre-Ship Review (PSR) is not expected earlier than October 21, 2009. †This would make it available for integration on the spacecraft starting in November 16, 2009. †CrIS would have a PSR no earlier than November 16, 2009 with December 16, 2009 integration start. ††The issue of CRiS needing additional TVAC has not been resolved. †Additional satellite testing has been added to remove it from instrument level.

†††The working schedule briefed is at [https://collab2.st.northropgrumman.com/eRoom/npoess/NPPMission/0\\_2f78a4](https://collab2.st.northropgrumman.com/eRoom/npoess/NPPMission/0_2f78a4)†

†††Two Satellite Exercise Opportunities were added at the end of each instrument integration assuming they would complete before the 30 day window was up. †

††††The Ground System Interface Test originally scheduled for October 27, 2009 is pushed back two to four weeks into November.

†††The NCT3 originally scheduled for late January will be pushed back at least a week into early February.

††††Mission Rehearsal #1 originally scheduled for December 2009 will be pushed back well after NCT3.

## **Tuesday 9/15/09 – Command Control Communications Segment (C3S) Face to Face**

DMT Representation: Denise Cooper, Jonathan Gleason, Walt Miller (PM session only)

Hardware procurement and development as well as host country permit status for the NPOESS Safety Net downlink sites were discussed. Multiple downlink sites are required globally in order to meet NPOESS data latency requirements. C3S hardware upgrades for NPOESS were also discussed.

## **Wednesday 9/16/09 – Operations & Sustainment (O&S)**

DMT Representation: Denise Cooper, Jonathan Gleason, Walt Miller

The O&S F2F now covers both NPP C3S and IDPS issues. J.P. Chamouk will be the sensor analyst for CERES. The NPP operations procedures are mostly mature with 40 complete, 24 waiting IPO approval, and 1 still being validated. CERES was the only NPP instrument with the majority of its flight Ops scenarios validated and ready for launch. A long discussion was held on delays in validating Operations Procedures that are caused by discrepancies in the flight simulator response and what the spacecraft is suppose to respond. BATC has not always been responsive to request for assistance. Ball Aerospace has been helping the Raytheon team to debug these discrepancies via contract NASA has with Ball. NASA is not funding this particular contract with Ball in FY10 and this has sparked significant concern from the Raytheon team as they need this support extended through December.

SDS to IDPS testing has resolved a number of problems.

The IDPS software is now being delivered to CLASS using the Red Hat Process Manager.

There was a long discussion on how data base changes driven by the instruments will be created by Ball and passed into IDPS.

A CERES Security Test for December 21, 2009 for Alternative I/F and Boundary was listed on the schedule.

## **Thursday 9/17/09 – Integrated Data processing System (IDPS)**

DMT Representation: Denise Cooper, Jonathan Gleason, Walt Miller

IDPS will be “in the spotlight” for upcoming GSIT, NCT3 & NCT4 test events. The IDPS F2F had a discussion of data preparation for the GSIT that did not include CERES data. A side bar was held with David King of Raytheon to make our desires known. David King will check with David Cornell and determine if CERES was excluded from the discussion only because CERES hasn’t had recent sensor changes and ensure CERES to be included in GSIT test event. The upcoming GSIT is currently scheduled for late October 2009 but schedule slip of up to 4 months possible.

A presentation on accelerating code deliveries to two in 24-hours was given for intensive calibration and validation. There will be different levels of data quality depending on what a maintenance release contains.

The Algorithm Development Library is being provided so that returning updated software from the IDPS will be easier. The memory based I/O modules are included with the sciences algorithms just being plugged into it. A Fortran implementation of the geolocation library will be included.

The emphasis of this session was planning for the NPOESS C1 IDPS build. It will be done in five increments, but with only one build and delivery. New hardware for IDPS was also discussed being IBM P7-550s.