

DATE: September 15, 2010

SUBJECT: NSG Launch and Landing PRD Scrub Schedule Splinter Minutes

LOCATION: Teleconference

ATTENDANCE:

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INTRODUCTION

Mr. Eric Barcon convened the September 15, 2010, Human Space Flight (HSF) Network Support Group (NSG) Launch and Landing (L&L) Program Requirements Document (PRD) Scrub Schedule meeting to reach consensus on the PRD scrub date and discuss the identification of Transition and Retirement (T&R) requirements (refer to the presentation, *Launch and Landing PRD Scrub, SSP Fly-out Transition and Retirement*).

MEETING ITEMS

- A. Mr. Barcon provided a status. The last official agency scrub was conducted in 2006. A preliminary Data Base Manager (DBM) review indicates the document is in good shape. Mr. Barcon stated that he would like to get the requirements out to the Requestors for review to make sure the requirements are good for the next three flights. Space Shuttle Program (SSP) fly-out is scheduled for July 2011. The official start of T&R is 30 days after the last Space Shuttle has landed and is de-serviced at the Kennedy Space Center (KSC). The agency needs to be prepared in advance for T&R to ensure necessary support is obtained. SSP T&R is expected to last for up to 2 years after SSP fly-out. KSC plans to identify potential L&L PRD content needed for SSP T&R support as part of the L&L review. KSC will follow the procedures and processes in place.
- B. Mr. Barcon provided examples of potential support for T&R (e.g., weather, voice, video, photography, data, safety & security, and explosives/ordnance disposal). He reviewed high-level types of requirements that may survive into the T&R phase. Some degree of communications will be required. Video will be needed for PAO and NASA Select. Closeout and historic photography activity will be taking place. The examples provided are a snapshot as the degree of involvement is not yet known.
- C. Mr. Barcon reviewed a proposed forward plan. The L&L PRD should be scrubbed and changes submitted to the L&L DBM by a date agreed to at the NSG. Previous Points-of-Contact (POC) should not be removed as new POCs are identified. If it is obvious that the support will not be used in T&R, it will not be flagged in the Test Code field. New T&R requirements, CRs, or gaps will be identified and addressed as needed. A L&L T&R Report will be generated upon SSP fly-out (STS-335 landing). Support requirements with content or resources that are shared will be identified. Stakeholders for these can be approached and asked if they are aware that the requirement will be closed. The L&L PRD will then be closed NET completion of SSP (there will be no further activity) and start of T&R. If needed, a new T&R PRD book may be opened.
- D. Mr. Gary Morse asked if for historical purposes, a snap shot of the PRD is being taken prior to adding data to the Test Code field. Mr. Barcon responded that a snap shot is taken after each flight.
- E. Mr. Joe Aquino stated that a full up scrub of all requirements for 3 missions is not seen as useful by the Johnson Space Center (JSC). JSC does not have the manpower and it could take months. JSC views the T&R scrub as very useful. It may be difficult to identify post SSP needs as the future projects will not be known for a while. Mr. Barcon stated that KSC has found this to be true as well and the mission requirements are in good shape. Each requirement should be reviewed for accuracy and validity and then flagged as T&R as appropriate. The focus should then be to flag potential T&R requirements.

The L&L PRD “Scrub” will be called a “Review” in which flagging of potential T&R requirements will take place. It was agreed that the input would be due February 1, 2011.

- F. The question was asked if a separate T&R volume will be built. This may be done for the Kennedy PRD (KPRD). Mr. Aquino stated that once the Space Shuttle is non-operational, the majority of T&R requirements will be KSC not Marshall Space Flight Center (MSFC) or JSC (e.g., for ferry flights or vehicle decommissioning).
- G. The question was raised to when to close the L&L PRD. Mr. Morse stated that the date may vary. If there were to be a Dryden Flight Research Center (DFRC) landing, two weeks would have to be added after the landing. Ms. Angela Culley stated that Mr. Dave Theriault has taken an initial look at requirements post landing (last flight). Mr. Aquino stated that JSC is in more of a ‘wait and see’ posture. Mr. Bob Marriott stated that more will not be known until January 2011. A ‘best guess’ of future needs can be taken, flagged, and validated at a later date. Mr. Barcon stated that there is no firm date for closing the PRD; the date can be reassessed after landing and de-servicing of the vehicle at KSC’s Orbiter Processing Facility (OPF). It would be no earlier than return servicing plus 30 days (start of T&R).
- H. Mr. Aquino stated that once the program ends, the document will be shut down. All the volumes and annexes should be archived. The operations documents should be closed out as they are. The T&R requirements, if needed, should be contained in a new volume (book). Mr. Barcon stated that if needed, a separate PRD volume for T&R can be opened.
- I. Mr. Mike Blum noted that MSFC has no idea of future requirements or how much engineering data will be needed.
- J. Mr. Aquino stated that JSC will not need as much time to review the document for T&R requirements. Mr. Dave Theriault is the JSC POC and Mr. Bob Marriott should work with him. He stated that he is in favor of the separate T&R volume (if needed).
- K. Mr. Aquino asked when the process would start if there is an STS-135 mission. Mr. Barcon stated that the process should still start prior to the Shuttle fly-out. Assumptions made for Constellation are no longer valid. Mr. Aquino asked if this is worth it as Congress has not made any program decisions. Mr. Aquino stated that he has a different preference, but would let KSC drive the review dates and JSC will respond. Mr. Barcon stated that there is no guarantee that the volume will not have to be reviewed again. It was agreed that the input would be due February 1, 2011.
- L. Mr. Barcon stated that he would keep everyone updated and let them know if there is a need to change the review input date.
- M. Mr. Blum asked who will fund the T&R. Mr. Aquino stated that the program has set aside some funds for T&R. Mr. Morse stated that the network has no funds for T&R except to remove Space Shuttle code from the White Sands Complex (WSC) database. Mr. Rob Thornton stated that he would find out who is funding the KSC server transition. Mr. Barcon stated that he thinks SSP is funding the server transition. Mr. Blum stated that he will try to determine if there are any funds for data reduction post SSP.
- N. Mr. Barcon provided an example of a T&R report. Mr. Barcon accepted an action item to provide a summary template of L&L PRD potential T&R table will be sent by KSC

DBM to the R&R/DBM personnel at JSC, MSFC, Goddard Space Flight Center (GSFC), DFRC, White Sands Space Harbor (WSSH), Eastern Range (ER), and DDMS (action item 0910-NSG-LL PRD-01).

ACTION ITEM REVIEW

The following action item was assigned at the September 15, 2010, NSG L&L PRD Scrub Schedule splinter meeting:

0910-NSG-LL PRD-01

ACTION:

Eric Barcon, KSC/NASA

Provide a summary template of L&L PRD potential T&R table will be sent by KSC DBM to the R&R/DBM personnel at JSC, MSFC, GSFC, DFRC, WSSH, ER, and DDMS.

(Original approved by)
Mr. Eric Barcon/KSC/NASA