DATE: September 14, 2010

SUBJECT: NSG MOVE Status Minutes

LOCATION: Teleconference

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INTRODUCTION

Ms. Michele Mascari convened the September 14, 2010, Human Space Flight (HSF) Network Support Group (NSG) Mission Operations Voice Enhancement (MOVE) meeting to discuss the status of the Goddard Space Flight Center (GSFC) – MOVE switches 1 and 2 (refer to the presentation, *MOVE-GSFC*).

MEETING ITEMS

A. MOVE-GSFC switch 1 is running software release 1.5.5. Release 1.5.6 is being tested on MOVE-GSFC 2. Circuit installation to support remote keysets for NASA HQ PAO and Hubble Space Telescope (HST) LMB is in progress. The NASA HQ switch will eventually be removed.

B. The Voice Switching System (VSS) and Voice Distribution System (VDS) no longer provide support. All services have been moved off the VSS and VDS. VDS keysets have been removed. The Real-time consoles in the Voice Room are no longer staffed. The NORAD service does not go through MOVE 1 (and did not go through VSS), but is routed via patch panels.

C. MOVE-GSFC 2 is the MOVE test bed. Future plans are to be able to bring the switch up in a contingency. The MOVE-GSFC 2 switch Critical Design Review (CDR) is being worked. The CDR is being presented to receive funding and Authorization to Proceed (ATP). A decision package is being developed.

D. The concept is to incorporate the capability offered by the replacement Digital Matrix Switch (DMS) to enable all wide area T-1s to be interfaced to either MOVE-GSFC 1 or 2. This is an extension of the original concept. The DMS is being implemented by another GSFC organization. The MOVE-GSFC-2 implementation will be in two phases. During Phase 1, five T-1s will be re-homed to the Point of Presence (POP) in Building 32. There are no RADs in Building 32 now; the RADs will be installed. There will be no change at the remote sites. Phase 2 will add the remaining T-1s. There are 120 dual-homed keysets that will be interfaced to MOVE-2. Each keyset has to log into the active switch. When there is a contingency, users will be notified to log onto an active switch.

E. The MOVE-GSFC 2 ops concept has been developed over the past year. A list of critical services to remap to Building 32 was developed. Five T-1s were proposed. There will be 38 T-1s into Building 14 that will break out into the DMS to reroute to Building 14 or 32. Ms. Mascari reviewed the MOVE-GSFC 2 remapped voice services diagram. This configuration allows for the loss of the Building 14 POP.

F. Ms. Mascari reviewed the MOVE-GSFC 1 Port 5/13/18/35/56 services. This list was based on a list provided by the COMMGR. The COMMGR worked with the customers to validate the list.

G. Ms. Mascari reviewed the contingency modes. If MOVE-GSFC 1 fails, MOVE-GSFC 2 becomes the prime voice switch. If the Building 14 carrier POP fails, MOVE-GSFC 1 remains the prime switch. If there is a total Building 14 failure, there will be limited external connectivity, no connectivity to some remote keysets, no connectivity to discrete circuits, and reduced keyset connectivity base on dual-homed keysets requested by users. The contingency connectivity will vary from Phase 1 to Phase 2.

H. Ms. Mascari reviewed the MOVE-GSFC 2 dependencies. The Delta CDR is being developed because the original design did not include the DMS or additional T-1s. There needs to be funding, ATP, and the DMS must be accepted for operations. This is an extremely tight schedule.

I. The VSS/VDS was carried as a risk by the HSF team at the Operational Readiness reviews (ORR). Now the MOVE-GSFC switch is carried as a risk. The NISN Mission Operations team would like to conduct a survey of all the HSF sites to determine the appropriate risk allocation. What is the current and planned configuration? Mr. Paul Hill reviewed the questionnaire. This risk was raised at the STS-133 ORR. MOVE is listed as a risk because it is not redundant. Does risk exist at other locations for mission voice? Mr. Ken Jones stated that the VDS/VSS old switch was a risk, but the new switch has internal redundancy. At JSC, there was no backup previously and there is none now or planned. A failure does not constitute a launch hold. Ms. Mascari stated that the MOVE-GSFC team and the NISN Mission Operations team do not agree that the MOVE-GSFC switch is a risk.

ACTION ITEM REVIEW

No action items were assigned at the September 14, 2010, HSF NSG MOVE-GSFC splinter meeting.

(Original approved by)
Ms. Michele Mascari/GSFC/LM