

RFA's for MGSE Integration Readiness Peer Review, June 22nd, 2004					
Item #	Action	Reviewer	Action for	Response	Status
1	Ensure that the I&T MGSE is using correct flight reference drawings (& versions).. Ensure change process identifies MGSE I&T as an effected subsystem for appropriate interface drawings (flight drawings)	Dick Horn	Eric Gawehn / Rich Bielawski / Rob Black	MGSE has verified current flight interfaces. Plan to review/reverify with current flight drawings prior IRR.	Closed
2	Complete certification of 1x4 support stand to include at least moments, and verify existing proof certification of 1x4 gets QA review of test already performed.	Dick Horn	Eric Gawehn / Darren Marsh	1x4 need has moved beyond flight integration phase. Lift fixture proof test process will be implemented for 1x4 prior to use.	Closed
3	Review the release signatures on all MGSE H/W, verify that appropriate affected subsystems, QA, Safety, & Mechanical analyst have reviewed appropriate drawings.	Dick Horn	Pat Hascall	The current signature release includes QA, and the mechanical analyst. Eric is making a list of the MGSE at the assembly level. We will then determine which subsystem is affected by the assembly and set up additional reviews as necessary. Similarly we will contact SLAC safety to see if they need to review the drawings or whether they are satisfied with the design concept information they have been provided.	Closed
4	Verify lift load case capabilities and constants for LAT lift in observatory configuration. Verify no constraints at LAT level lift in two points configuration (positive margin on LAT). Reference: Reported LM analysis of XLAT constraints on Observatory lift.	Dick Horn	Martin Nordby / Pat Hascall / Marc Campell / John Ku	Load cases completed	Closed
5	Form a committee or review process to validate mitigation actions / methodology planned to single point failures.	Dick Horn	Eric Gawehn / Elliott Bloom	Work with Design Integration to clarify I&T methodology.	Closed
6	For the IRR, clearly address all support & certification required for single tower in single bay integration.	Dick Horn	Eric Gawehn	MGSE Status will be updated to include proof test and/or certification status prior to IRR.	Closed
7	For 1x4 lift fixture operation (page 16 of chart package) verify that cg is below turnbuckle attachment to flange interface plates when Tracker Towers are present and electronics boxes are absent.	Mike Menning	Eric Gawehn	1x4 Lift fixture stability analysis has been performed and the design is stable with or without ELX boxes. Report due 7/16/04. NO MORE WORK ON 1x4.	Closed
8	Provide mechanical blocking feature for Personnel Access Platform operation to limit vertical motion such that PAP cannot contact Tracker Towers when Towers are pointed upward and cannot contact electronics when electronics are pointed upward.	Mike Menning	Eric Gawehn	Hard stops in place for Calorimeter Ops. Design trades being evaluated to adequately protect Trackers.	Closed
9	For & in conjunction with PAP usage, give thought to the use of protective covers, tool cages & protective methods for tool drops, also personnel lanyards.	Tim Thurston	Eric Gawehn	Tool tethers will be used at all times when working over flight hardware.	Closed
10	1/2" and 3/4" turn buckle arrangement should be looked at to assure that 1/2" turn buckle are not mistaken or used in place of 3/4" turnbuckle.	Tim Thurston	Eric Gawehn	Review of the design shows that the 1/2" turnbuckle interface hardware lacks sufficient length to be inadvertently used to attach to the LAT 4x4 lift fixture interfaces.	Closed
11	Is a contingency plan in place of the unlikely event of a Tracker mount pin failure? Are equipment & processes identified & available to repair such a failure?	Tim Thurston	Eric Gawehn	Need to review potential flight design concepts to recover from a broken TKR to Grid interface stud during I&T.	Closed
12	Hold a review of documents and processes before IRR. Similar to action for IFCT.	Dick Horn	Elliott Bloom / Eric Gawehn	IRR complete	Closed
13	Identify MGSE storage and protection plan. This needs to include logistics and shipping.	Tim Thurston	Eric Gawehn	MGSE Transportation and Storage Plan added to MGSE document list.	Closed