

RFA's for SVAC Integration Readiness Peer Review, July 21st, 2004					
Item #	Action	Reviewer	Action for	Response	Status
1	Quantify the reduction systematic errors of MC predictions expected/required due to SVAC activities.	Bill Craig	Eduardo do Couto e Silva	It is hard to quantify these and the question is a bit ill-posed. The relevant point is that the SVAC activities during LAT integration will check physics processes, geometrical and trigger acceptances of the instrument prior to the final science verification	Closed
2	Electronic logbook changes need to be coordinated with Online.	Ric Claus	Eduardo do Couto e Silva	Work started by meeting between IFCT, Ken, Elliot Online and SVAC	Closed
3	Coordination of trending tools (DB creation display) is not coherent across SVAC, ISOC and Online. I thought we were collaborating on this? I need to have input on due dates.	Ric Claus	Eduardo do Couto e Silva	Aug 5 is when ISOC gives I&T a database person . From SVAC Xin is the contact point and for the moment from Online Jim is the person in charge. Both Xin and Jim are implementing work related to SVAC and Online, respectively. ISOC hire will help to implement a common solution that is useful for I&T and ISOC	Closed
4	Work with Rick Bright to get the correct description on "reference data set" into the end item data package requirements for subsystem deliveries.	Pat Hascall / Brian Grist	Eduardo do Couto e Silva	Included reference datasets as part of ATDP while calibration algorithms are part of a "coordination" document from SE	Closed
5	Data captured during a LAT test will be from several hardware redundancies. Are any of the calibrations used on-line, off-line, or in the SAS models dependent on the set of hardware selected (e.g. GASU side?) If so, how will the calibration data sets for the various hardware configurations will be managed and used.	Pat Hascall	Eduardo do Couto e Silva	SVAC analyses data mostly on nominal configurations only. The bulk of the SVAC work relies on nominal configurations taken after the LAT is fully assembled. If pass/fail tests done online indicate that there is a problem that suggests further investigation with SAS reconstruction tools, SVAC can then analyze non-charge injection data	Closed
6	When the data analysis team identifies a potential need for more or different data runs on the instrument, how/who will decide the validity of the request and priority of the new test vs. impact to the ongoing I&T schedule.	Dick Horn	Eduardo do Couto e Silva / Steve Ritz	If problem is found it is brought to the Instrument analysis meeting at 8 am on Fridays via VRVS , then the work is discussed and a summary presentation is brought to the Analysis meeting chaired by Instrument Scientist. After this screening process a request is issued by Eduardo to Elliott who then assesses the impact on changes of the LAT integration flow	Closed
7	Who / what process will be executed when a discrepancy is found during the SVAC . My concern is not that a NCR or anomaly will be noted. I want to know who will have the lead to organize and resolve the NCRs that relate to science verification.	Dick Horn	Eduardo do Couto e Silva / Steve Ritz	After the NCR process is in place by QA, Eduardo will organizing the effort to investigate the problem.. The main responsibility on the technical level will be left to Bill Atwood and Eduardo will ensure support and infrastructure is in place. The Instrument Scientist reviews the material prior to presentations to the MRB (TBR by Steve and Bill)	Closed
8	Define process for logging and resolving SVAC specific anomalies or concerns.	Bill Craig	Eduardo do Couto e Silva	JIRA	Closed
9	Please trace responsibility for every pass/fail test within I&T. Which department performs and evaluates each test? This is very important because these pass/fail tests determine whether we can proceed to the next stage of the build. The LAT schedule depends critically on a clear, effective, and efficient chain of responsibility.	Steve Ritz	Eduardo do Couto e Silva	After discussions with SE SVAC realized that PASS/FAIL nomenclature used for SVAC tests are not the correct terminology to use. All Pass/Fail tests are the responsibility of IFCT which performs all of these tests. The scripts that drive these tests have Pass/Fail criterion built in. If a test fails it is up to the technicians and their supervising engineers on shift to make sure that the failure is not due to errors on their part in running the test, e.g., EGSE setup, out of date test script. ... If they so determine, work is stopped and an NCR is filed with QA.	Closed
10	slide 39. Evaluate the processing times for each step and end to end. Match the computing resources and personnel to the expected data volume by day.	Steve Ritz	Eduardo do Couto e Silva	100k events takes about 10-15 minutes to produce digi and about 6 hrs for recon. Pipeline is being optimized for parallel process.	Closed
11	slide 39. Please describe the calibration validation process. After each calibration is performed, the resulting constants set must be validated (ranges, changes from previous, etc.), and the calibration set must be flagged as good or bad. Who is responsible for this?	Steve Ritz	Eduardo do Couto e Silva	Subsystems are responsible for validating and checking constants in database, when in production (after two towers) responsibility shifts to I&T, but subsystems are part of the review process.	Closed
12	You should examine what elements of the pipeline and analysis operation will be stressed by a potentially rapidly changing code environment. For example, is it possible to rerun particular steps in the pipeline if a small version change is made in that step's script or executable?	Richard Dubois	Eduardo do Couto e Silva	Yes, future plans to improve current system include upgrading pipeline design and doing a joint review of the scripts by I&T and SAS.	Closed
13	What is the configuration control scheme envisaged for ensuring that the SVAC etc scripts etc that are run in the pipeline are in fact the ones agreed to. Will the agreed tags be checked out of cvs and made read-only for use by the pipeline?	Richard Dubois	Eduardo do Couto e Silva	Answer covered in item 12.	Closed
14	1) Create mechanism and schedule for scripts to parse and decommutate schema, snapshot, and online report. 2) Strengthen and formalize communication between online and offline with regard to command state. 3) Define and create deliverables for Towers A and B.	Eric Grove	Eduardo do Couto e Silva / Ric Claus	1) Is in place and future upgrades are foreseen. 2) happening through I&T/ISOC meetings. 3) Done.	Closed