Special Test Request Form	STR Number 7 R01

Part 1 – Test Definition Section
Test Requestor: L. Miller & L. Wai
Test Purpose and Justification: The LAT needs a "combined system performance test." We propose to run a 2-tower version during 2-tower testing of Towers A & B in the flight grid. We will use this special test to investigate the behaviour of the measured quantities (response and occupancy distributions) in the multiple tower environment, and attempt to assess the developed configuration files with respect to achieving valid and useful pass/fail criteria of these quantities.
Test Description: The test consists of solicited trigger data collection, muon data collections, and online analysis of that data. The output of the test is a test report with pass/fail criteria and diagnostic charts & tables.
GSE Configuration: GASU/PDU based teststand.
LAT Configuration: Towers A & B in grid, upright orientation of towers.
Expected Results/Acceptance Criteria: Expected results: TEM errors summary table, TKR occupancy with noisy / dead strip summary, CAL pedestals with noisy channel summary, CAL log end ratios with dead channel summary.
Expected Duration: 3 hrs
Expected Analysis Duration: 0 hrs
Test Procedure: Per AIDS, run the INT script "LivenessTest" with several configuration files.
Test Script: Test script and configuration files are developed and validated by Lester Miller on the MiniLAT and using archived LivenessTest data from flight hardware.

Part 2 – Impact Assessment Section
Procedure development: None.
Script development and checkout: Upgrade of existing LivenessTest script.
Impact to schedule: Total test time is 3 hrs.
Risk Assessment: Procedure does not have additional risks beyond the standard CPT tests.
Required Resources: GASU/PDU based teststand at building 33. Needs presence of an operator and test conductor for execution.
Other Affected Parties:

Part 3: Signature Approval:			
Required Authorizations	**Printed Name**	**Signature**	**Date**
Quality	Darren Marsh	(Signature on file)	4/15/05
I&T	Elliott Bloom	(Signature on file)	4/15/05
Program Office	N/A		
Systems Engineering	Pat Hascall	(Signature on file)	4/15/05
Affected S/S managers	N/A		
Instrument Scientist	Steve Ritz (FYI)		
Other	N/A		
Other	N/A		
Other	N/A		
Other	N/A		