Special Test Request Form	STR Number 13r02

Part 1 – Test Definition Section

Test Title: Calibration and Reconstruction Infrastructure Check at 6 Towers	**Test Requestor**: Eduardo do Couto e Silva/ Anders W. Borgland

Test Purpose and Justification:
Run 30 minutes of baseline run 3/1
The purpose is to check calibration and reconstruction infrastructure for six tower tests so that we minimize potential pipeline problems during normal data taking

Test Description:
Take 30 minutes of cosmic rays with 6 Towers in vertical orientation using the end-to-end data taking script using configuration 3/1

GSE Configuration:

Current configuration used for end to end runs. No impact

LAT Configuration:

Current configuration. (Vertical orientation without muon telescope). No impact.

Expected Results/Acceptance Criteria:

Data collection completes with no errors.

Expected Duration:

<1 hour

Expected Analysis Duration:

N/A

Test Procedure:

1. The calorimeters in the two new towers are not calibrated. To run we should use settings from CAL FM104. The new files that are needed are:

   latest_G13_MeV1000_FM106_CAL_fhe.xml

   latest_G5_MeV100_FM106_CAL_fle.xml

   latest_G5_MeV2_FM106_CAL_lac.xml

   latest_G13_MeV1000_FM107_CAL_fhe.xml

   latest_G5_MeV100_FM107_CAL_fle.xml

   latest_G5_MeV2_FM107_CAL_lac.xml

   These files should be made by making a copy of the corresponding FM104 files.

2. Verify that the instrument is powered.
3. Run test 3/1. There should be only very minor impact to operations since it can use same procedures used for 4 tower tests

Test Script:

Same as data taking for end to end runs. No impact

Schema configuration file: Grid-0-1-4-5-8-9_Tower-0-1-4-5-8-9.xml

Part 2 – Impact Assessment Section

Procedure development:
The procedure is the same as existing end to end tests- No impact.

Script development and checkout:

The schema will have to be made. The files with the settings for the two uncalibrated CALs will have to be made by making a copy of the corresponding files for FM 104.

Impact to schedule:

Less than one hour

Risk Assessment:

Procedure does not have risks.

Required Resources:

GASU based test stand without muon telescope at building 33. Please notify Eduardo do Couto e Silva and/or Anders Borgland when the test starts. Needs presence of an operator for equipment power on/off at start and end of each test period.

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Other Affected Parties:

Part 3: Signature Approval:

Required Authorizations	Printed Name	Signature	Date
Quality	Joe Cullinan	(Signature on file)	6/16/05
I&T	Elliott Bloom	(Signature on file)	6/10/05
Program Office	N/A		
Systems Engineering	Pat Hascall	(Signature on file)	6/15/05
Affected S/S managers	N/A		
Instrument Scientist	Steve Ritz or Eduardo do Couto e Silva	(Signature on file)	6/14/05
Other	N/A		
Other	N/A		
Other	N/A		
Other	N/A		