This Talk

• To help define procedures for code release from SAS to I&T
  – There are open questions for us to discuss
  – There may be issues that can not be resolved by Dec 10
    – Need to identify plan to solve them by First tower test (early January)

• Ground rules
  – All code to be delivered in SAS/CVS
    – Email from SAS contact person to SVAC contact person with cc to Richard and Eduardo announcing code is ready to be retrieved.
  – SAS results from code release are presented on Dec 10 in the Instrument Analysis meeting
  – SVAC validation results and summary report with status, dates and plan for flight integration are presented on Dec 13 on the Analysis meeting
    – To be discussed with Steve
EM Release – Reconstruction code

- SAS contact person: Heather
- SVAC contact person: Anders/Xin
  - SAS release procedures
    - System tests on Data
      » I&T will provide data file for CAL and for TKR
    - System tests on MC with 100K triggers for
      » 1 tower and surface muons
      » 1 tower and VDG source
      » 2 towers and surface muons
      » 2 towers and VDG source
  - PASS/FAIL criteria
    - No crashes allowed
    - System tests histograms are OK (TBD what it means)
  - SVAC validation procedures
    - Checkout code from CVS, compile and run
    - Check on large number of events fro MC and data runs
FRED – Event Display

- SAS contact person: Riccardo
- SVAC contact person: Anders/Xin
  - Procedures for release
    - Not clear to us how to validate that
    - Make sure is independent from EM release
    - Make sure code in in CVS
    - Demonstrate the ability to display events produced by the EM release
      - Move from event to event using backward and forward arrow on display
  - PASS/FAIL criteria
    - No crashes allowed
  - SVAC validation procedures
    - Repeat what SAS did?
ROOT 4.0 – Visualization/I-O tool

- SAS contact person: Heather
- SVAC contact person: Xin/Anders
  - SAS release procedures
    - Decision to upgrade to 4.0
      » To be reviewed by CCB chaired by Richard, with Steve, Bill and Eduardo as required members
    - Need help to define these!
  - PASS/FAIL criteria
    - Need help to define these!
  - SVAC validation procedures
    - Need help to define these!
    - Check on large number of events from MC and data runs
• SAS contact person: Sasha and Leon?
• SVAC contact person: Anders/Xin
  – SAS release procedures
    – These are part of EM release but not part of system tests
    – Generate constants using multiple muon files
    – Load constants in database
    – Ask recon to retrieve constants from database and retrieve charge injection information if needed (of course, expect subsystems to put it in)
    – Run recon with calibration constants and demonstrate that calibration worked
      » energy scales, tot MIP scale, dead channels
    – Make sure we address cases inside and outside the grid and for multiple towers
    – Make sure are tagged with appropriate hardware numbers, e.g. TKR module (A, B etc..) or CAL module (FM101, FM102)
  – PASS/FAIL criteria
    – Compare results files from flight hardware reference set (use diff?)
  – SVAC validation procedures
    – Checkout code from CVS, compile and run
    – Same steps
    – Load into SVAC trending database
LDF2FITS – Validation from electronics to Physical space

- SAS contact person: Steve Culp?
- SVAC contact person: Xin/Anders
  - SAS release procedures
    - No idea!
  - PASS/FAIL criteria
    - No idea!
- SVAC validation procedures
  - No idea!
Pipeline - DATA

- SAS contact person: Dan
- SVAC contact person: Warren/Xin
  - SAS release procedures
    - SAS creates and loads the xml file to configure the SVAC scripts in the pipeline
    - Process about 50-100 files (to be provided by SVAC)
  - PASS/FAIL criteria
    - Demonstrate all jobs complete successfully
    - Evaluate log reporting is OK (need better definition)
    - Demonstrate scheduler works at freq of 30 sec (TBR)
  - SVAC validation procedures
    - Checkout output from run reports and config reports
    - Launch pipeline and test reprocessing scheme of runs
Pipeline - MC

- Who is doing this?
  - Is SAS taking care of it and SVAC only needs to ask for the runs?