

## **CERES Systems Engineering Committee**

Members: Tammy Ayers, SSAI (DM)  
Denise Cooper, SSAI (DM)  
Tonya Davenport, SSAI (ASDC)  
Vertley Hopson, SSAI (ASDC)  
Walt Miller, chair, SSAI (DM)  
Sue Sorlie, SSAI (ASDC)

Charter: Serve as a forum for resolving issues that affect more than one working group.  
Report to the CERES Data Management Team.

### **The SEC met on May 26, 2010 at 10:00 in Building 1268, Room 2316.**

Tammy Ayers, Denise Cooper, Tonya Davenport, Vertley Hopson, Walter Miller, and Sue Sorlie were in attendance. Lisa Coleman, Angel Cross, Thomas Grepiotis, and Brian Magill also attended at the request of the SEC.

#### Topics Discussed:

1. ASDC Operations had concerns about the consistency in the PGE exit codes.

Different responses are required for the same exit code depending on which PGE generated the exit code. This makes it difficult for operations to respond correctly. As production becomes more automated, knowing whether a PGE was successful or not is important. There are still some PGEs that don't put "exit" in front of their exit code to allow easy identification in production. The placement of exit code as requested earlier has not been fully implemented yet. There are some PGEs that return an exit code from the run script, but then produce graphics without the exit code. Initially, 200 was the exit code that meant abnormal termination of the PGE, but it is not followed by many subsystems.

The need for the exit code to be included in the launch script was determined. This will require the PCF generation and run script to provide its status and not just print the exit code message. Having the message "exit" multiple times in the SGE log is not a problem. This will be done in testing the *AMI* job submission scripts.

The DMT will review the exit code and come up with exit codes for specific situations to allow production to know if they should not wrap, shouldn't run following PGEs, there are missing files, and there is an abnormal termination. Operations is okay with using a range of exit codes for a given category to allow more details in why a PGE failed.

## 2. Old Business

The need to include an underscore in the Production Strategy (PS) environmental variable was approved. Since there does not seem to be consistency in the numbering associated with the PS environmental variable, no standard is being imposed. An *\_0* or *\_n* that is consistent with the PGE numbering scheme is fine.

The new /SCF/CERES/QA area is just a staging area for ValRx files until production has transitioned to *AMI*. It is not a replacement for the old CERES/QA. It was decided that the documentation team would update the Operator's Manuals and File Management Policy to remove references to it. Under the new procedures, the first month will be produced with the archive product name. It will not be put in the archive until it has been reviewed and approved.

Chris Harris will accept one directory per subsystem to include in the daily backup. This directory and subdirectories should contain less than 100 GB of data and be frequently changing. The scripts to allow individuals to archive to a group directory are ready. They were not tested before the recent system outage. A comment was made that detailed instructions on using the scripts are needed. Walt Miller will send an email to the DMT with the instructions and obtain a list of the directories that will need to be backed-up.

The location for web files produced in production has not been determined.

The SPD and Working Agreement still need to be updated.

## 3. New Business

Brian Magill will brief the SEC in about a month on his proposed design changes to the *AMI* job submission scripts.

The scripts that are being developed do not need to be in place if *magneto* is used for Edition3 production. However, the exit codes should be corrected.

Meeting adjourned at 11:00 AM