15 test sessions were created and run. Each session ran for approximately ten minutes. Every session had some issues. Most of the session had the same issues dealing mainly with audio but we really didn’t see a consistent pattern to the issues. The origination site was changed every session between all four sites.

- Reverb/Echo Audio
  
  **Tippton originate:** Audio reverbed/echoed in a loop with Williamsburg but no other sites. 
  **Tippton originate:** Audio reverbed/echoed in a loop with Vinton but no other sites on two separate sessions. 
  **Williamsburg originate:** Audio reverbed/echoed in a loop with Washington but no other sites. 
  **Vinton originate:** Audio reverbed/echoed in a loop with Williamsburg but no other sites. 
  **Washington originate:** Audio reverbed/echoed in a loop with Williamsburg but no other sites. 
  **Washington originate:** Audio reverbed/echoed in a loop with Tippton but no other sites.

- When the relay function was used the system/session would lock up. One time the video did switch correctly at remote sites, but origination site goes black on front monitor. When the originator selects their own site (to end the relay function) the incoming video goes black and no audio from sites. Also the front monitor stays black. At this time the remote sites could still see and hear the instructor. Relay function was tried when Tippton was originate. Couldn’t see any of the remote sites on the classroom monitors either.

- Test10: Washington was originate. In Tippton, Washington was on the small LCD monitor, Tippton was on the front monitors and the DL-Navigator graphic (from start up) was in the touch screen box. Next session, Test11, Washington remained the originate and everything came up fine in Tippton. At the end of this session we tried shutting the room down using the system. When the session ended every site hit the end session box and every room shut down (monitors and camera).

- Test12: The rooms and cameras turned on but the session didn’t configure. Washington was originate. In Tippton, Washington was on front monitors but the four boxes were on the touch screen. Williamsburg and Vinton had the four boxes on the touch screen and they weren’t receiving Washington. Dave Maley, in Williamsburg, tried remotely to reboot the Dascom server with VNC. Dave stated he didn’t have the ability to re-start it even though he was getting an indication that it did re-boot and was running. We called the main campus and the Master Control operator did a manual re-boot. The session still had issues.

- Test13: Washington was originate. Maintenance screen said session was in pre-start then in session but when I checked the properties the session was in error. This was after we re-booted the hub.
• Test14: After hub was rebooted. Washington was originate. Washington came up fine, Tipton had four boxes on touch screen, Williamsburg and Vinton came up fine. Tipton started the session manually. Washington was on the front monitors but the DL graphic was on the touch screen box.

• Test11: Washington was the originate he didn’t get a 60 second warning that the session was coming to an end.

• Many times during the test sessions video would not pull.

• In all of the test sessions the instructor audio came through great but the student audio was hard to tell if it was coming through the system or over the instructor mic from the originate.

• What’s going to be very confusing for our instructors will be when they select a receive site they immediately get the classroom controls for that site. This is going to cause confusion and they start switch the receive site visuals thinking that it’s the originates visuals.

• When a receive site keyed a student mic and started to count to 10, the source was switched and heard by the originate site at 3. This was consistent with all the sessions.

• Some times the originates audio would sound very hallow and processed. It was like the Gentner was fighting with the audio trying to adjust it.

• During some of the sessions the originate site’s video would lock up/freeze for a couple of seconds then start up again. This wasn’t something that was consistent.

• Every session that Washington was the originate a video source needed to be selected on the touch screen. The session would start in black then would come up when a source was selected.

• We tried several session where one session ended and another began and this worked very good at the switch but then we developed many of the issues we described above.

• Most of the issues revolved around audio. No one at the four sites was sure if they could be heard or if their site had pulled video.