

4/20/2017

## **CAT O & H Panel Conference Minutes**

### **Attendees:**

Andrew Stevens (Chair), – Lubrizol  
Hind Abi-Akar, Mark Jarrett – Caterpillar  
Jim McCord, Gary Hammer – SwRI  
Sean Moyer – TMC

### **Agenda Items:**

1. Review new report form for 1N part ID codes recording
2. Finishing discussion of 1N cooling system mods
3. 1N rings update and parts batching discussion
4. \*\*\*Additional agenda item: C13 Liners Update (Supply Source)

### **Action Items.**

1. Sean: Create list of items needing to be added to data dictionary with intent to present to surveillance panel
2. Andrew: Develop proposed procedure updates to define part ID codes
3. Andrew: Work with all labs to compile cooldown/warmup coolant data with the purpose of defining parameters of new system
4. All Labs: Let CAT know when C13 references are due
5. Andrew: Submit proposed coolant system procedure changes to Jim Gutzwiller for surveillance panel review
6. Andrew: Add agenda item to next call: Discuss alternative strategy for controlling C13 boost pressure
7. CAT: Explore what it will take to produce larger batches of test-critical parts

### **Agenda Item 1 - 1K/1N Parts Recording**

Sean Moyer presented proposed changes to test report to properly capture part ID numbers

Panel liked the new format and thought it made sense.

Jim McCord asked about including instructions within the report so that raters, etc. will have a direct reference to ensure proper recording of data. Sean remarked that as long as the required elements are in the report, for candidates it is acceptable to add information to the report.

Discussion around how to ensure that proper protocol is followed on a continuing basis – decided that references should be made in the procedure with pictures so that it is very clear what expectations are and there is a mechanism to enforce proper protocol. Tests will not be invalid if a mistake is made.

Comment made that once changes are in place in the procedure and test report, it would be a good idea to add a check to ensure proper recording of data at ACC and TMC report acceptance level.

### **Agenda Item 2 - Coolant system**

Several items of concern from last meeting were brought up and discussed such as the setpoints during warmup and cooldown.

It was noted that there are no setpoints for warmup and cooldown in the procedure. Possible ways to approach this were discussed including adding setpoints or possibly adding “recommended” values in the procedure. Jim McCord raised the point that systems still using the engine pump cannot control flow at warmup and cooldown conditions. This must be taken into consideration when developing setpoints, limits, etc. for the electric pump system.

Hind remarked that she was ok with the new system as long as it replicated current conditions and didn't change test performance. Jim remarked that a VFD is more likely to give better control than the current setup.

A procedure change proposal was presented and it was decided that it was sufficient to submit to the surveillance panel for review.

### **Agenda Item 3 – C13 Liner Supply**

Mark wanted to inform the labs that the supplier for C13 liners is changing and we need to decide how we will handle this. There was a discussion about how to designate the change in supplier and it was decided it was probably best to assign a new part number.

Labs are to let CAT know when references are up so that we can begin coordinating when/how to bring new parts in. This will be discussed at SP level.

#### **Agenda Item 4 – 1N Rings/Parts Batching**

During investigations of 1N TGF issues, it was realized that 1N ring batches come in relatively small batches. The issue was raised to the panel because of concerns about potential current or future changes to parts that could affect the test and would/will not be caught. Much conversation ensued about the implications of batching including reasoning for larger batches, CAT's ability to create larger batches, using a CPD, etc. It was suggested that the rest of this conversation was better suited for the SP. It was remarked that the intent of raising the issue at O&H was to create action items so that proper info can be brought to SP. From this, CAT agreed to explore what it would take to create larger batches.