

Unapproved Minutes of the March 5, 2013
Sequence VG Surveillance Panel
Conference Call

The meeting was called to order by Chairman Andy Ritchie at 2:00 PM EST.

A list of the attendees on the call is included as Attachment 1.

Chairman Ritchie listed the agenda items he would like to cover in this call:

- 1) Review and approval of minutes from February 26, 2013 call
- 2) Discussion of adjusting Batch No. AK2821NX10 to increase severity
- 3) Old Business.
- 4) New Business.
- 5) Next Meeting

Chairman Ritchie asked if there were any corrections to the minutes from the February 26, 2013 VG Panel conference call. There being none, it was moved by Ed Altman and seconded by Jason Bowden that the minutes be approved. The motion passed unanimously.

Chairman Ritchie asked for a report from Haltermann on the status of the reblending of Batch No. AK2821NX10 fuel to increase severity. Mark Overaker reported that some adjustments in the blend have been made, and that the results from analytical testing on the reblend look positive. They are currently running some bench tests to confirm that the reblend is performing as expected. Mark explained that they would like to do a pilot blend like they did last time, and test the pilot blend before blending the entire batch. Ed Altman asked what doing a pilot blend would do the overall timing of finalizing a new fuel batch. Mark responded that he anticipates having the pilot blends ready for shipment to the labs in the March 15-19 timeframe. Chairman Ritchie asked if Haltermann could comment on what they were actually doing to increase the severity of the blend. Mark replied that they were varying the concentrations of two constituents in the blend. Mark further stated that he would put together an anticipated timeline for the entire reblend and approval process, and would distribute this to the Panel members before next week's call, so that it could be discussed during that call. Ed asked what the labs should do about supplies of the proposed fuel blend that was just tested; Mark stated he could have a tanker truck pick up

the remaining supplies of this blend from each lab. There was some discussion about possibly trying to adjust these supplies individually, but this idea was dismissed because doing so would likely add more variability in the fuels used in testing.

Old Business: Ed Altman brought up the subject of stand referencing, saying that both Afton and SwRI had stands scheduled for referencing in the next week or so, and that they have only a limited amount of current VG fuel available. Ed wanted to know whether extending the referencing period was an option. Rich Grundza responded that he would like to defer discussion of this topic until the next call, to enable him time to review what was done the last time this situation occurred. In response to a question about how much current VG test fuel remained, Mark indicated Haltermann had one isotote (~5000 gal) of this fuel remaining. Rich suggested that all of the labs provide him with the remaining amounts of their current inventory of VG fuel, and that he could provide this input during the next VG Panel call. All labs indicated they would do so, but that they had VG testing going on currently.

New Business: Ed Altman raised the subject of fuel batch size, indicating that the fuel batch approval process was a time consuming and expensive process, and he questioned whether we could have a larger batch size, so we didn't have to reblend as often. Others agreed, noting that other fuel blends have been as large as 2M gallons, and that a larger fuel batch might be stored in more than one tank. Chairman Ritchie summarized the discussion by saying that the preference of the Panel was for there to be larger fuel batches in the future, and asking Haltermann to investigate ways of accommodating a larger fuel batch than the last two VG fuel batches.

Next Meeting: The next regularly scheduled conference call will be Tuesday, March 12, 2013, at 2:00 PM ET.

Attachment 1

Attendees during 3/5/2013 Sequence VG Surveillance Panel Call

BP Castrol - Timothy Miranda

Afton – Ed Altman, Christian Porter

Ford - Ron Romano

Haltermann – Mark Overaker, Tracey King

Infineum – Andy Ritchie, Mike McMillan, Gordon Farnsworth

Intertek – Al Lopez

Lubrizol – Jerome Brys, Jessica Buchanan, Chris Mileti

OHT – Matthew Bowden, Jason Bowden, Dwight Bowden

Oronite– Jo Martinez

SwRI – Raham Kirkwood, Bill Buscher

TEI – Clayton Knight

TMC – Rich Grundza

Toyota – Jim Linden