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Issued: June 21, 2016
Reply to: Dan Worcester
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These are the unapproved minutes of the 06.21.2016 Sequence VI Conference Call.

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The meeting was called to order at 8:02 AM Central Time by Nathan Moles.

Agenda

The Agenda is the included as **Attachment 1**.

1.0 Roll Call

The Attendance list is **Attachment 2**.

2.0 Approval of minutes

- 2.1 Approval of the minutes of the 05.24-25.2016 meetings.

<ftp://ftp.astmtmc.cmu.edu/docs/gas/sequencevi/minutes/VIMinutes201600524ConferenceCall.pdf>

MOTION: Approve the minutes from the 05.24-25 2016 meetings in Cleveland.

Nathan Moles, Jason Bowden second. The motion was unanimous.

- 2.2 Approval of the minutes of the 06.07.2016 meetings.

<ftp://ftp.astmtmc.cmu.edu/docs/gas/sequencevi/minutes/VIMinutes201600607ConferenceCall.pdf>

MOTION: Approve the minutes from the 06.07.2016 conference call.

Nathan Moles, Jason Bowden second. The motion was unanimous.

3.0 Action Item Review

- 3.1 OHT to provide update on current VIE inventory and service engine order. –OHT
There are 142 -002 engines in inventory.

- 3.2 Update of VID engine inventory and expected depletion date of VID engines.
-Expected depletion of VID engines 2016 Q3
~70 test starts at independent labs remain There are 50-60 tests remaining at IAR and SwRI.

4.0 Old Business

- 4.1 Update on precision matrix analysis. –Stats Group
~~Do we really need to run three RO tests to establish the new engine for LTMS?~~
~~Discussion of reducing the new reference requirement to two oils, then a third oil run after a defined number of candidates.~~
~~Discussion of using FEI 2 and FEI Sum for references to match candidate pass/fail criteria.~~
~~Discussion of evaluating 80/20 ratio of BL before to after for FEI 1 and 10/90 for FEI 2. Consider evaluating FEI 1 vs 100% BLB2 (or 3) and evaluating FEI 2 vs 100% BLA.~~
~~-Discussion of changing BLB1 to BLB2 delta acceptable limits.~~
~~-Determine engine calibration status of matrix engines and date of calibration~~

-Review impact of variable oil pressure of FEI (review prove out data to determine if it is stand or engine related)
-Should the acceptance bands value of 1.96 be rounded up? Due to the rounding on FEI 1 and 2 the actual pass limit is 1.91 and 1.92.
- Investigate what is needed to establish VID equivalent limits for VIE
-Review and Finalize LTMS Requirements
- Appendix K Template review –Todd Dvorak
These are on-going issues.

- 4.2 Update from task force, to investigate alternative test procedure Sequence “VIF” that would improve 0W-16. – Dan Worcester/Satoshi Hirano The matrix is complete. IAR will send as invalid the test with the high BLB Delta. The Stat Group will begin data review and this will be reviewed along with the VIE Precision Matrix at the next Face to Face meeting.
- 4.3 Update from task force to investigate option to use short blocks to supplement engine inventory. –Adrian Alfonso/Bill Buscher There will be a meeting 06.23.2016 to update the time line.
- 4.4 Update from task force, to investigate engine cleaning procedure. –Dan Worcester SwRI has built an engine with 970 hours and developed a cleaning procedure. There will be a Clean Team Meeting 06.22.2016. There was discussion on wanting an engine that has reference oil data. IAR will look at using one from the Precision Matrix. SwRI will run at least one reference oil on the cleaned engine. OHT has some of the parts needed for rebuild after cleaning. This will be discussed.
- 4.5 Appendix K Template review –Todd Dvorak This will be discussed later.

5.0 Next Meetings.

- 5.1 Nathan will move on to a new position in Lubrizol. He will continue as Chair for 2016. Greg Miranda was noted to be Surveillance Panel chair. However Bill Buscher indicated GM wanted to be considered for the position. This will be discussed further.

6.0 Next Meetings.

Tentative schedule:

- 6/28 No meeting, ASTM meetings
- 7/5 No meeting, July 4th holiday week
- 7/12 2 hour meeting, stats analysis review
- 7/19 2 hour meeting, stats analysis review
- 7/26 & 27 face to face meeting at IAR?

Charlie Leverett is retiring so the next face to face meeting will be in San Antonio.

The meetings adjourned at 8:37 AM.

Sequence VI Surveillance Panel Conference Call Agenda June 21 @ 9:00-10:00AM EST

Call-in information is included below:

Call-in Number: 866-528-2256
Conference Code: 3744024

1.0) Roll Call

Do we have any membership changes or additions?

2.0) Approval of minutes

2.1 Approve the minutes from the May 24 & 25, 2016 Sequence VI Surveillance Panel.

<ftp://ftp.astmtmc.cmu.edu/docs/gas/sequencevi/minutes/VIMinutes20160524ConferenceCall.pdf>

Approve the minutes from the June 7, 2016 Sequence VI Surveillance Panel.

<ftp://ftp.astmtmc.cmu.edu/docs/gas/sequencevi/minutes/VIMinutes20160607ConferenceCall.pdf>

3.0) Action Item Review

3.1 OHT to provide update on current VIE inventory and service engine order. –OHT

3.2 Update of VID engine inventory and expected depletion date of VID engines.

*-Expected depletion of VID engines 2016 Q3
~70 test starts at independent labs remain*

4.) Old Business

4.1 Update on precision matrix analysis. –Stats Group

~~-Do we really need to run three RO tests to establish the new engine for LTMS?~~

~~-Discussion of reducing the new reference requirement to two oils, then a third oil run after a defined number of candidates.~~

- ~~-Discussion of using FEI 2 and FEI Sum for references to match candidate pass/fail criteria.~~
- ~~-Discussion of evaluating 80/20 ratio of BL before to after for FEI 1 and 10/90 for FEI 2. Consider evaluating FEI 1 vs 100% BLB2 (or 3) and evaluating FEI 2 vs 100% BLA.~~
- ~~-Discussion of changing BLB1 to BLB2 delta acceptable limits.~~
- ~~-Determine engine calibration status of matrix engines and date of calibration~~
- Review impact of variable oil pressure of FEI (review prove out data to determine if it is stand or engine related)
- Should the acceptance bands value of 1.96 be rounded up? Due to the rounding on FEI 1 and 2 the actual pass limit is 1.91 and 1.92.
- Investigate what is needed to establish VID equivalent limits for VIE
- Review and Finalize LTMS Requirements
- Update test procedure
- Appendix K Template review –Todd Dvorak

4.2 Update from task force, to investigate alternative test procedure Sequence “VIF” that would improve 0W-16. – Dan Worcester/Satoshi Hirano

4.3 Update from task force to investigate option to use short blocks to supplement engine inventory. –Adrian Alfonso/Bill Buscher

4.4 Update from task force, to investigate engine cleaning procedure. – Dan Worcester

5.) New Business

5.1 TBD

6.) Next Meeting

Tentative schedule:

- 6/28 No meeting, ASTM meetings
- 7/5 No meeting, July 4th holiday week
- 7/12 2 hour meeting, stats analysis review
- 7/19 2 hour meeting, stats analysis review
- 7/26 & 27 face to face meeting at IAR?

7.) Meeting Adjourned

ASTM SEQUENCE VI

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Timothy Caudill Voting Member	Ashland	Phone: (606) 329-5708 Tlcaudill@ashland.com	
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Dan Worcester Voting Member	Southwest	Phone: (210) 522-2405 dan.worcester@swri.org	ATTEND

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ASTM SEQUENCE VI

Name	Address	Phone/Fax/Email	Attendance