

# Sequence VIE/F Engine Rebuild Task Force

## Call Agenda

March 30<sup>nd</sup> @ 8:00 AM CST

Call-in number: (800)391-9177

Conference Code: 4875645502

### Scope:

The ASTM Sequence VI Surveillance Panel requested a Task Force be formed to explore the possibility of extending the life of the Sequence VIE specially built General Motors (GM) 3.6 L (LY7) engine. New engines will be built from new GM assembled short blocks and other new and used individual components.

### Objective:

The Task Force will:

- Review GM's proposal of building new VIE engines from new GM assembled short blocks and new GM individual components.
- Determine total quantity of engines needed.
- Determine parts availability and acquisition for new engine build. Coordinate with OHT and GM.
- Determine which used parts from used VIE engines will be needed for new engine builds.
- Determine availability of these used parts and develop inspection and selection criteria.
- Inspect and select used parts for use in new engine builds (each lab will be responsible for this task).
- Develop and implement a standardized build procedure (engine assembly manual).
- Determine stand availability for testing lab built engines.
- Develop a test plan to prove out lab built engines.
- Report results, conclusions and recommendations to Sequence VI SP.

The agenda for this meeting is shown below, if you have any additions please send them to me and Cc this distribution.

### 1.0 Roll Call

Do we have any membership changes or additions?

### 2.0 Approval of Minutes from meeting 3/2/2017.

[ftp://ftp.astmtmc.cmu.edu/docs/gas/sequencevi/minutes/VIE\\_FEngine%20RebuildTaskForce20170302.pdf](ftp://ftp.astmtmc.cmu.edu/docs/gas/sequencevi/minutes/VIE_FEngine%20RebuildTaskForce20170302.pdf)

Adrian, Dan, Unanimous

### 3.0 Action Item Review

3.1 Adrian will develop a timeline for completing the scope of this TF – **Completed/can change based on Stats input on prove out recommendation.**

3.2 Rich Grundza will approach the Stats Group to provide objectives of the matrix design prior to presenting the matrix to the SP – **Completed, matrix was presented to SP on 3/28/17.**

3.3 Rich Grundza will edit the matrix table to state engine/lab 1, engine/lab 2....to further clarify there will be 4 labs one engine each lab participating in the matrix – **Completed**

#### **4.0 Old Business**

- 4.1 Review fixed phasors reuse, inspection procedure.
- 4.2 IAR will work with SwRI on fixed gears groove and lubrication
- 4.2 Should rework/repairs be allowed, follow up after rebuild workshop.

#### **5.0 New Business**

##### 5.1 Prove out matrix timeline

###### 5.1.1 Determine availability of stands participating in the matrix

- There are 52 engines left. This inventory will be exhausted within 3 months.
- Labs participating will email Rich Grundza with estimated timeline for prove-out matrix at their lab.

5.2 Short Block Engine Build Manual review. Dan emailed the manual yesterday, please let me know if you did not receive it and I will send it again. It is a large file so I don't want to clutter anyone's email.

- All corrections or changes recommendations shall be submitted by 5 April 2017.

Engine Kits update: There have been enough P.O. submitted for Scott to move forward with placing orders. Shipment of the -2 engine kits is expected 5/27-6/27. Review kits and contact Scott Stap if there are parts missing.

#### **6.0 Review of action items.**

- Labs will email Rich Grundza and provide timeline to start prove out test
- Submit all corrections for the build manual by 5 April 2017
- Add a note to the build manual clarifying the engine ID number. The number should be the 10 digits number etched/stamped on the block (picture will be added to the manual
- Adrian will work with Tim to select a unique SN from within the engine ID number

#### **7.0 Schedule for next conference call.**

6 April 2017