

# Sequence VIE/F Engine Rebuild Task Force

## Call Agenda

August 4<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 8/4/2016.

[ftp://ftp.astmtmc.cmu.edu/docs/gas/sequencevi/minutes/VIE\\_FEngine%20RebuildTaskForce20160804.pdf](ftp://ftp.astmtmc.cmu.edu/docs/gas/sequencevi/minutes/VIE_FEngine%20RebuildTaskForce20160804.pdf)

Jerry, Adrian, Unanimous

### 3.0 Action Item Review

- 3.1 Engine KITs completion and shipping – **Expected by September as per Tim Cushing**
- 3.2 Scott will contact GM to attempt to acquire more sort blocks – **In progress**
- 3.3 Adrian will develop a timeline for completing the scope of this TF – **Completed/can change based on Stats input on prove out recommendation.**
- 3.4 Adrian to contact stats group about prove out test design – **After consulting with our Statistician Martin Chadwick I propose to table the request to the stats group until we have an LTMS (~the week of 25 July) for the VIE. There are two main reasons for this, one to have a better idea what oils and order to use for the short blocks and second to not overload the stats group even more than what they are now.**

3.5 Parts list for the right head rebuild will be developed by Scott and will research possibility of creating a kit for the right head rebuild. **In progress**

3.6 Scott will send P.O. for more kits/pricing (he will have a meeting this morning to receive approvals)

3.6.1 Was the approval granted?

POs for kits with both heads should be separate from POs for the kits with no right heads. If possible include the cost of the head build kit in the PO for the engines without right head.

#### **4.0 Old Business**

4.1 Need to write up storage procedure for labs to follow (include cleaning procedure to remove RP).

4.2 Coordination of engine build workshop early 2016.

4.3 Review fixed phasors reuse, inspection procedure.

4.4 Should rework/repairs be allowed, follow up after rebuild workshop.

#### **5.0 New Business**

5.1 Survey results.

A total of 934 additional short blocks/kits were requested from all labs. Richard Grundza has the breakdown of the orders per lab.

Can this number of kits be acquired?

How many kits will have both heads? (Need current estimate)

Are we ready to move forward and place the orders?

All of the HFV6 parts have been accounted for and production of kits is scheduled to begin tomorrow.

The first kits will ship out next week

Dimensions of the boxes are (to be confirmed by Tim):

Length – 30 in

Width – 27 in

Height – 54 in

5.2 OHT6E-001-2 engine parts not included in the assembly

OHT currently has orders in place and waiting on confirmation for the following items:

VIE Lower Intake - GM12571079

Lower intake gasket - GM12603028

Upper intake gasket - GM89017867

VIE Coil Pack (6 each) - GM12632479

OHT has limited stock of the VID injectors (OHT6D-042-1) and VID Coolant Temp Sensors.

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

- Adrian will send the latest draft of the build manual.

- Rich Grundza will send an email requesting the labs to provide injectors flow data and whether injectors are reused or new ones are use in every new engine

- Once data is analyzed we need to review the option of changing the procedure to include new injector part number or have it open to use injector that come with the engine.

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

TBD