

**L42 Task force meeting  
November 2<sup>nd</sup>, 2004  
Warrendale, PA PRI building-Sputnik room**

**Attendees:**

**Cory Koglin  
Chris Schenkenburger  
Don Lind  
Don Bartlett  
Dale Smith  
Brian Koehler**

**Shaft balancing specifications:**

Review conference call minutes, information, and proposal to change current L42 specification. Made the tolerance on shaft diameter +/- .0005 in on both the L37 and L42. This was done to include nominal shaft sizes, but also to have a large enough specification around the welded tube. All labs buy nominal tube sizes, ie 2.5", 3", 3.5", 4". This will also cover proper ISO protocol.

**L42-1 Draft review/Forward plan**

Discuss section 12

**Action Item:** SWRI wasn't happy with data generated on stand. Some of the torques were too high/low. Plots didn't show good representative data. SWRI will keep the same torque levels as their current reference status. SWRI would be going to generate new data, and will have plots Week of November 24<sup>th</sup>, 2004.

Conference call the first week of December?

**Do we want to adopt the L37 type spray nozzle system?**

All labs are in agreement to use the L37 nozzle system. This would include the 3 standard nozzles and the proper drawing in the procedure.

Nozzle type:  
Plumbing:  
Research Valve (air to close)  
Trim Size  
Single PID loop

Don Lind & Chairman to work on putting the proper verbiage into L42-1 draft procedure and into the proper section.

**Action Item:** Dale (parc) Go back to lab, place L42 axle in L37 stand and check to see how close nozzles are to axle and if the drawings will work.

Once confirmed by Dale, Don Bartlett will have draftsman work on drawing for L42-1.

**Section 10**

**Action Item:** Conditioning temperature-Labs are in agreement that the temperature specification for the conditioning phases of the test should read 225 +/- 5 degF, and have a deviation percentage, rather than invalidating a test if the temp falls below the spec. (Don Lind/Chair to include in draft)

Possible gear batch for running L42-1 acceptance P8L637/C1L604?  
Every lab has this batch with the exception of Parc. Afton willing to trade/sell gears sets in order for them to participate. Any other labs willing to trade/sell?

**What Drawings are needed?**

Need block assembly for spring perch. No drawing spec is needed for the turnbuckle between the spring plate and stand assembly. Labs can use their own design as long as it's solid

**Action Item:** Need to remove load cell from axle stand drawing. Chair to talk with SWRI/Brian Koehler

**Polishing/Scoring Discussion**

Handed out drawing of the different scoring/polishing scenarios. Everyone agreed on the 3 scenarios, but thought 1 other scenario should be added. This scenario is when scoring and polishing are not "touching" each other, but a polished area is on the tooth on its own.

The group came up with a flow diagram which would assume the 3 scenarios presented would count the polished area in the final score rating, but would leave out scenario #4 as described above and would only be commented on the report. Refer to hand drawn flow diagram.