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Committee D02 on PETROLEUM PRODUCTS AND LUBRICANTS

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November 4th, 2016

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ASTM D02.B0.03 L-42 Surveillance Panel
Members and Guests:

Attached for your review and comment are the unconfirmed minutes of the:

November 2nd, 2016 Surveillance Panel Meeting (Automation Alley – Troy, MI)

Please direct any corrections or comments to my attention.

Very Respectfully,

Eric Donovan, Chairman
L-42 Surveillance Panel

L-42 Surveillance Panel Meeting Minutes

Automation Alley – Troy, MI

November 2, 2016

Attendees: voting members in **bold**, * indicates called in via teleconference

R. Banas (Exxon)	A. Goyal (BASF)	J. Rucker (Meritor)
D. Bell (Afton)	B. Hennessey (Dana)	E. Sattler (US Army)
B. Bubonic (LZ)	P. Kanga (Exxon)	G. Schmalbach (Dana)
T. Deany (Dana)	B. Kearney (Afton)	D. Smith (Intertek)
J. Dharte (AAM)	M. Keisler (Afton)	A. Trader (Intertek)
E. Donovan (Afton/C)	A. Minke (BASF)	M. Umerley (LZ)
K. Drlja (Lubrizol)	V. Marsic (Lubrizol)	W. Venhoff (LZ)
*K. Duho (Valvoline)	R. Opperman (Meritor)	R. Warden (SwRI)
B. Dwornick (US Army)	S. Parke (TMC)	

Call to Order

Review of Agenda

The meeting agenda is attached.

Gary Schmalbach (Senior Account Manager), Brad Hennessey (Sales/Special Projects Manager), and Tim Deany (Lugoff Plant Manager) of Dana were introduced to the group. They were in attendance to discuss the next hardware batch.

Review of Membership

Troy Muransky has left Meritor. Motion made by J. Dharte to have Jule Rucker replace Troy as a voting member, second by W. Venhoff. Unanimous approval, no abstentions.

Approval of Meeting Minutes

Meeting minutes for approval:

- "20160810_SP" → August 10, 2016 – Warrendale, PA

Motion by D. Smith, second by R. Warden to approve meeting minutes as presented. Unanimous approval, no abstentions.

L-42 Hardware – 2017-2018 order

Current lab hardware inventory estimates are:

- Afton – 2 years
- Intertek – 2 years
- Lubrizol – 5 years
- SwRI – 1 year (conservatively)

Based on the SwRI inventory of 1 year, discussion began regarding another 3-4 year order of Dana hardware. The idea of redistribution among the labs was brought forth. Afton wishes to not redistribute, Lubrizol will discuss redistributing some of their inventory to SwRI.

E. Donovan asked for final documents from the 2014 hardware order which would be a starting point for the requirements for the new order. B. Hennessey and T. Deany from Dana said they will find those documents along with providing a quote for 1,500 axles to start the process. T. Deany also expressed that he was pleased with the process from the last batch and the next batch would follow the same process. This process includes a separate production line with quality measures in place and a program manager.

The longest lead time items are the ring and pinions from the Ft. Wayne facility. If ordered now, they would arrive in Aug 2017. Based on this timing, E. Donovan will form a Task Force for the new order and hold a conference call once the quote and information are received from Dana within the next month. Labs are to think of how many axles they would like to order. The goal for the next batch is to order a 3-4 year supply and have axles in hand in early 2018.

L-42-1 Development Update

Due to rig availability, no further development has occurred at Afton. More development runs will happen as the rig becomes available in the near future.

New/Open Issues

No new or open issues at this time.

Adjournment

Motion by R. Warden, second by M. Umerley. All in favor, meeting adjourned.

Respectfully submitted,

A handwritten signature in black ink, appearing to be 'Eric Donovan', written over a horizontal line.

Eric Donovan

L-42 Surveillance Panel Chairman



L-42 Surveillance Panel Meeting

Automation Alley

Troy, MI

November 2, 2016







11:00 am - 12:00 pm

Passion for Solutions™

Agenda

-  **Call to Order**
-  **Agenda**
-  **Membership Review & Update**
-  **Approval of Meeting Minutes**
-  **L-42 Hardware – 2017-2018 order**
-  **L-42-1 Development**
-  **New/Open Issues**
-  **Adjournment**

L-42 SP Voting Members

-  Rob Banas - ExxonMobil
-  Allen Comfort – US Army
-  John Dharte – AAM
-  Eric Donovan – Afton Chemical (Chair)
-  Troy Muransky – Meritor****
-  Scott Parke – TMC
-  Dale Smith – Intertek
-  Matt Umerley– Lubrizol
-  Rebecca Warden – SwRI

Approval of Meeting Minutes

SP Meeting Minutes

- ▲ “20160810_SP” → August 10, 2016 – Warrendale, PA

L-42-1 Hardware – 2017-2018 order

- ▲ **May 2016 – the group agreed the best idea is to continue with Dana hardware until L-42-1 is complete**

- ▲ **August 2016 – Labs were to review current hardware status and report back to plan timing for next hardware order**
 - ▲ Afton – 2 years
 - ▲ Intertek – ?
 - ▲ Lubrizol – ?
 - ▲ SwRI – 1 year (conservatively)

- ▲ **Based on SwRI inventory, the SP should initiate new hardware order within 3-6 months**

- ▲ **E. Donovan spoke with Gary Schmalbach from Dana on 10/26/16. He estimated the lead time for ~1000 axles is 6 months and will confirm this with the plants**

- ▲ **What batch requirements does the SP need to provide Dana? Use previous batch requirements?**

L-42-1 Development

Summary

- ▲ Electric T-rig (input and outputs)
- ▲ Dana 44 mounted without springs

Goal is to have the rig follow L-42 setpoints first then use mathematical model for setpoints

Development to date

- ▲ Data from L-42 run was used to create 100 Hz setpoints for initial L-42-1 testing
- ▲ Initial testing shows good progress, fine tuning still needed to hit exact setpoints consistently

New/Open Issues

Thanks!



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**L-42 Surveillance Panel Membership/Attendance
Automation Alley - Troy, MI
November 2, 2016**

Initials	Name	Voting Non-Voting	Company Name Company Address	Contact information	
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	Barrera, Tony	NV	Intertek Automotive Research	Phone:	210-523-4653
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DB	Bell, Don	NV	Afton Chemical	Phone:	804-788-6332
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B	Bubonic, Brad	NV	The Lubrizol Corporation	Phone:	
				E-mail:	babu@lubrizol.com
	Chambers, Harold	NV	Linamar Driveline Systems	Phone:	248-358-6038
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Automation Alley - Troy, MI
November 2, 2016**

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Initials	Name	Voting Non-Voting	Company Name Company Address	Contact information	
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✓ JK Dale Rickard

✓ JON 2.2.100

member

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L-42 Surveillance Panel Membership/Attendance
Automation Alley - Troy, MI
November 2, 2016

Initials	Name	Voting Non-Voting	Company Name Company Address	Contact information	
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