PC-10 NCDT STATUS REPORT

ASTM - HDEOCP MEETING EMBASSY SUITES - O'HARE MARCH 31, 2005

PC-10 NCDT Status Report March 31, 2005

EMA Request to Add Caterpillar 1P Test

- No NCDT action since last HDEOCP Meeting
- Awaiting 1P Test at Afton on C-13 "Oil A"
- Awaiting 1P test data from Caterpillar on "Oil D"
- When received NCDT meeting will be called to review data and develop recommendation to API Lubricants Committee.
- If data received in time, objective is to present NCDT recommendation at May 10 API-LC Meeting

Lab/Stand Selection & Funding Proposal March 24, 2005

PC-10 Engine Test Matrix Lab / Stand / Funding Proposal

					Adjusted Test Costs			
	Lab	No.	Plan	Submitted	Prop. Adj.			
C13	IND-1	2						
	IND-2	4						
	DEP-1	2						
	DEP-2	2						
	DEP-3	2						
	DEP-4	2						
	Sub-totals	14	1,330,000	1,369,920	1,348,719			
ISB	IND-1	4						
	IND-2	2						
	DEP-4	2						
	Sub-totals	8	400,000	385,012	379,054			
T-12	IND-1	2						
	IND-2	2						
	DEP-1	2						
	DEP-4	2						
	Sub-totals	8	600,000	632,008	622,227			
	Grand	l Total	2,330,000	2,386,940	2,350,000			
	Surplus / S	Shortage	20,000	-36,940	0			
		Discount on Test Costs (%)						
	-		. Submitted	1.4	2%			
			. Hardware Ad	j. 1.5	5%			
		Discount per Test (\$)						
			/erage	1,2	231			
			inimim	e	623			
			aximim	1,6	527			

Objectives

- Allow all volunteer labs to participate
- Treat Ind. labs the same
- Minimize overall cost to meet budget

Proposal Outcomes

- No labs excluded
- Each Ind. lab has 2 stands for 1 test; stands dropped using cost
- \$37K shortfall requires
 1.5% test cost reduction
- Use cost to replace stands if necessary; would lead to increased shortfall (up to \$90K)

Lab / Stand / Funding Proposal

			Hardware Adjusted Test Costs		
	Lab	No.	Plan	Submitted	Prop. Adj.
C13	IND-1	4			
	IND-2	4			
	DEP-1	2			
	DEP-2	0			
	DEP-3	2			
	DEP-4	2			
	Sub-totals	14	1,330,000	1,391,170	1,357,555
ISB	IND-1	4			
	IND-2	2			
	DEP-4	2			
	Sub-totals	8	400,000	385,012	375,709
T-12	IND-1	2			
	IND-2	2			
	DEP-1	2			
	DEP-4	2			
	Sub-totals	8	600,000	632,008	616,737
	Grand	Total	2,330,000	2,408,190	2,350,000
	Surplus / Shortage		20,000	-58,190	0

Discount on Test Costs (%)

vs. Submitted 2.22% vs. Hardware Adj. 2.42%

<u>Discount per Test (\$)</u>	
Average	1,940
Minimim	973
Maximim	2,540

Alternate 1

- Replaces a dependent lab that may not be matrix ready
- Creates an imbalance between the two independent test labs
- Increases the funding short fall and proposed price adjustments

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Lab / Stand / Funding Proposal

	1		Hardwa	are Adjusted Test	t Costs
	Lab	No.	Plan	Submitted	Prop. Adj.
C13	IND-1	4			
	IND-2	4			
	DEP-1	2			
	DEP-2	0			
	DEP-3	2			
	DEP-4	2			
	Sub-totals	14	1,330,000	1,391,170	1,339,937
ISB	IND-1	4			
	IND-2	4			
	DEP-4	0			
	Sub-totals	8	400,000	429,068	413,266
T-12	IND-1	4			
	IND-2	4			
	DEP-1	0			
	DEP-4	0			
	Sub-totals	8	600,000	619,616	596,797
	Grand	Total	2,330,000	2,439,854	2,350,000
	Surplus / S	Shortage	20,000	-89,854	0

<u>Discount on Test Costs (%)</u>	
vs. Submitted	3.38%
vs. Hardware Adj.	3.68%
<u>Discount per Test (\$)</u>	
Average	2,995
Minimim	1,484

3.872

Alternate 2

- Assumes the questionable test lab will not be matrix ready
- Uses dependent labs only in the Cat C13 test; cuts 3 stands at 2 dependent labs
- Significant Increase in funding short fall and the proposed price adjustments

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Lab / Stand / Funding Proposal

	Ī		Hardware Adjusted Test Costs		
	Lab	No.	Plan	Submitted	Prop. Adj.
C13	IND-1	2			
	IND-2	4			
	DEP-1	2			
	DEP-2	2			
	DEP-3	2			
	DEP-4	2			
	Sub-totals	14	1,330,000	1,369,920	1,355,758
ISB	IND-1	4			
	IND-2	2			
	DEP-4	2			
	Sub-totals	8	400,000	385,012	381,032
T-12	IND-1	4			
	IND-2	4			
	DEP-1	0			
	DEP-4	0			
	Sub-totals	8	600,000	619,616	613,210
	Grand	Total	2,330,000	2,374,548	2,350,000
	Surplus / S	Shortage	20,000	-24,548	0

PC-10 NCDT Status Report

March 31, 2005

Discount on Test Costs (%) vs. Submitted vs. Hardware Adj.

Discount per Test (\$)	
Average	818
Minimim	416
Maximim	1,087

0.95% 1.03%

Alternate 3

- Assumes all labs will be matrix ready
- Eliminates dependent labs from the Mack T-12 matrix
- Balances independent labs based on test costs
- Lowest possible short fall and test cost adjustment

PC-10 Engine Test Matrix Lab / Stand / Funding -- Next Steps

- NDCT recommend approach to assign matrix test stands
 - Prioritize the different options
- Obtain agreement from the test labs
 - Distribution of stands
 - Test cost adjustments

Establish firm deadlines to confirm lab matrix readiness

- To be judged by appropriate TF/SP
- Fixed date or relative to HDEOCP test acceptance?

Use output from above to finalize MOA

Conference Call Decisions

- NCDT recommends adoption of the laboratory / stand combinations of the basic proposal (Slide 2) provided all participating laboratories are declared ready by the involved Test Development Task Forces by April 15, 2005; with Alternate 1 (Slide 3) as a fall-back position if Dependent Laboratory 2 is not declared ready by this date.
- Bill Runkle will request DEOAP approval of this NCDT recommendation.
- Steve Kennedy will resolve test costs with the laboratories consistent with available funding and circulate revised proposals including final funding for presentation to the DEOAP.
- An ACC initiative to conduct additional testing beyond the PC-10 Matrix to develop Group III BOI data was discussed. This will be addressed by BOI/VGRA TF.