



Test Monitoring Center

Carnegie Mellon University
6555 Penn Avenue, Pittsburgh, PA 15206, USA

<http://astmtmc.cmu.edu>
412-365-1000

MEMORANDUM: 13-041
DATE: June 11, 2013
TO: EOWT Surveillance Panel
FROM: Michael T. Kasimirsky
SUBJECT: Reference Oil 77-2 Target Update

At the November 19, 2012 EOWT Surveillance Panel teleconference, the panel approved a motion to introduce reference oil 77-2 into the calibration system, based upon the data presented at that meeting. The motion also contained provisions for these targets to be updated and frozen in June 2013, using all data completed by May 31, 2013.

The final test targets, which take effect on June 27, 2013, are shown in the following table:

Reference Oil 77-2						
WT%	N	Mean	Std Dev	K	Target Range	
0.6	47	-11.91	3.30	1.96	-18.38	-5.44
1.0	47	-11.00	3.39	1.96	-17.65	-4.35
2.0	47	-12.11	3.47	1.96	-18.90	-5.32
3.0	47	-14.43	3.45	1.96	-21.20	-7.67

Note that the upper and lower limits shown in the "Target Range" block are the official test targets for the EOWT test; the target mean and standard deviation are shown for information purposes only.

Plots of the initial test targets, the final test targets, the test targets used for reference oil 77-1, and the individual data points used to calculate the targets are shown on the following pages.

MTK/mtk

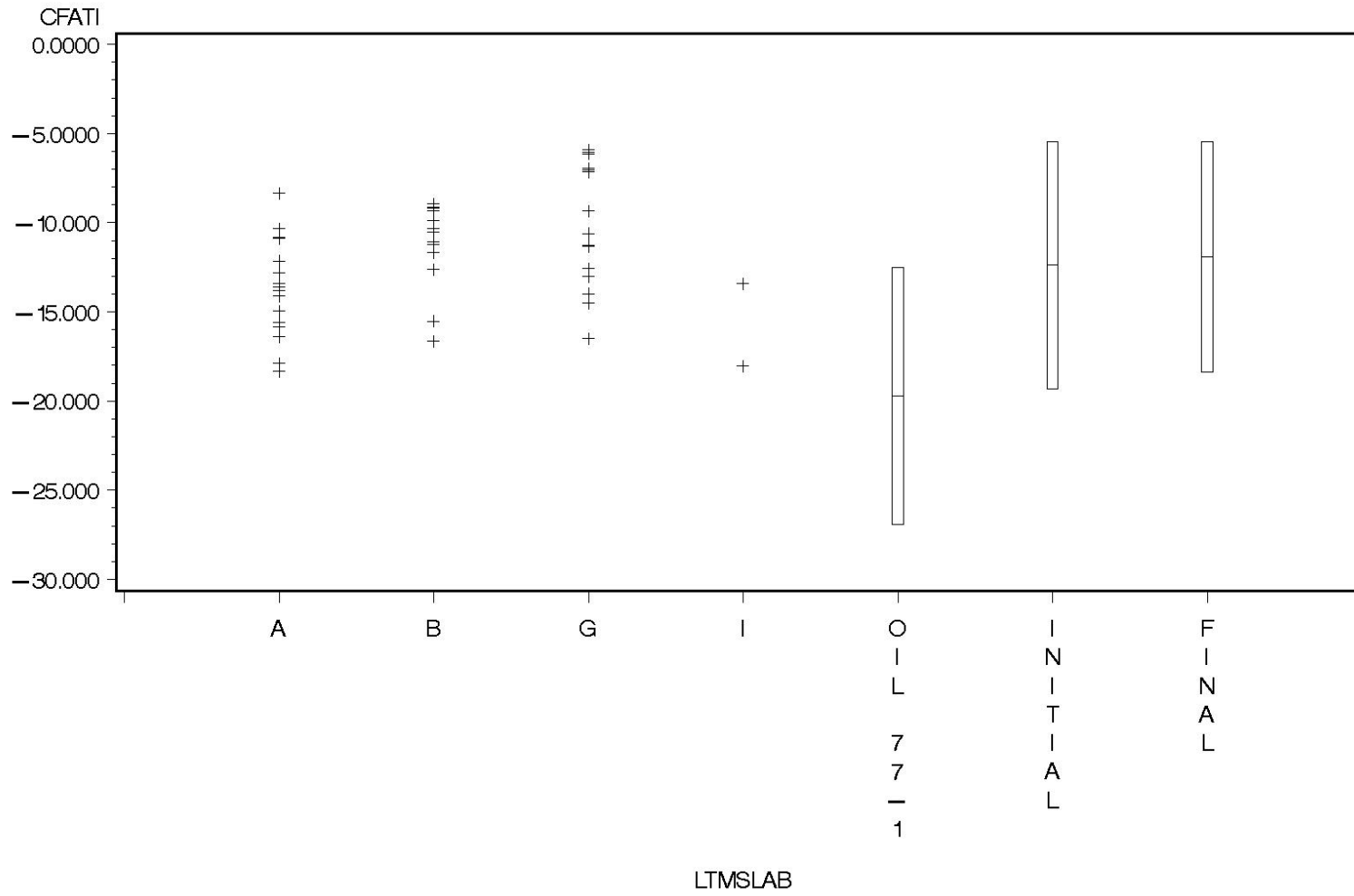
c: [ftp://ftp.astmtmc.cmu.edu/docs/bench/eowt/memo/mem13-041.mtk.pdf](http://ftp.astmtmc.cmu.edu/docs/bench/eowt/memo/mem13-041.mtk.pdf)

Distribution: email

EOWT Reference Oil 77-2

Test Target Data Set and Acceptance Bands

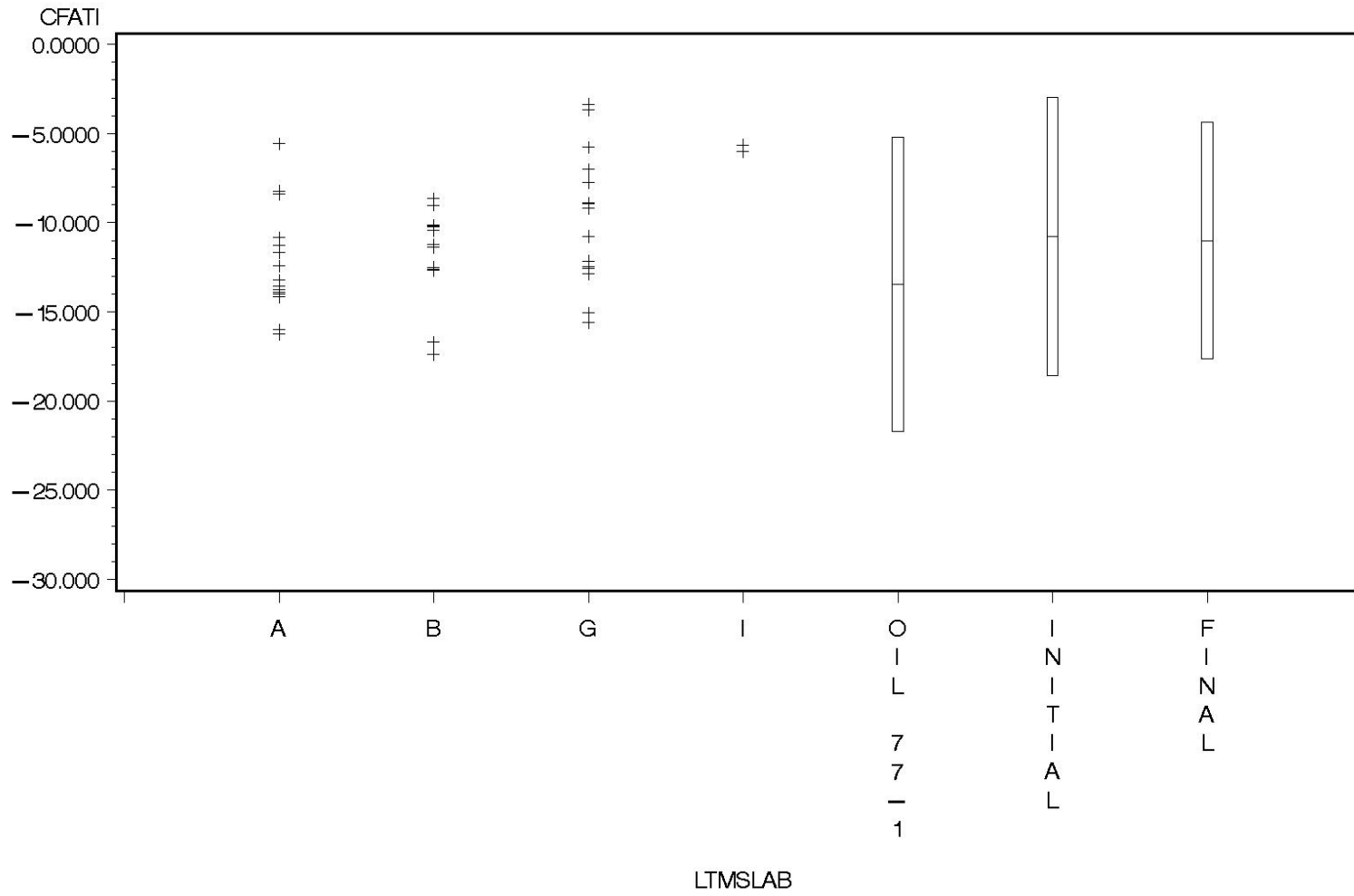
Change in Flowrate Average, 0.6% Water Concentration



EOWT Reference Oil 77-2

Test Target Data Set and Acceptance Bands

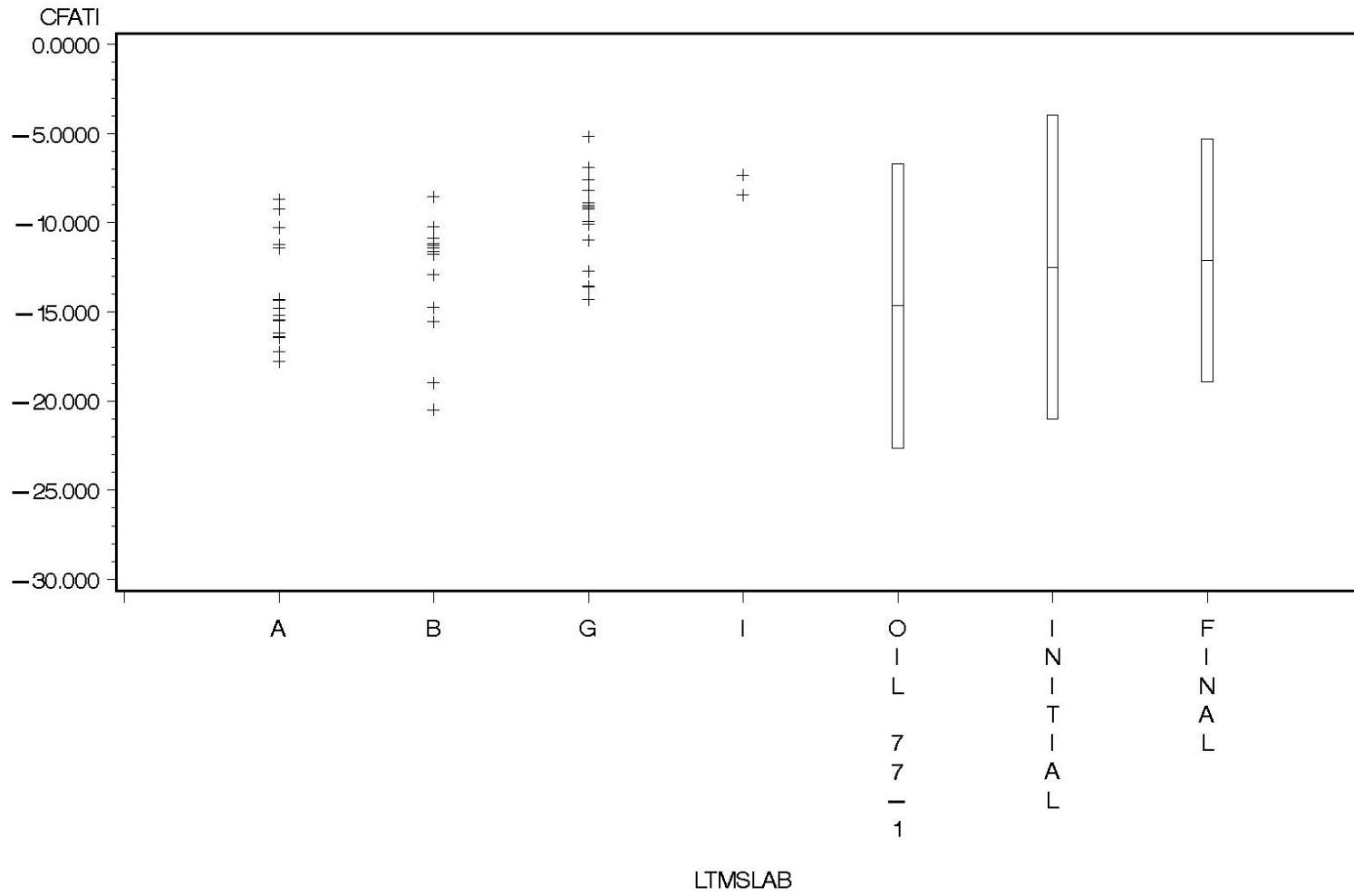
Change in Flowrate Average, 1.0% Water Concentration



EOWT Reference Oil 77-2

Test Target Data Set and Acceptance Bands

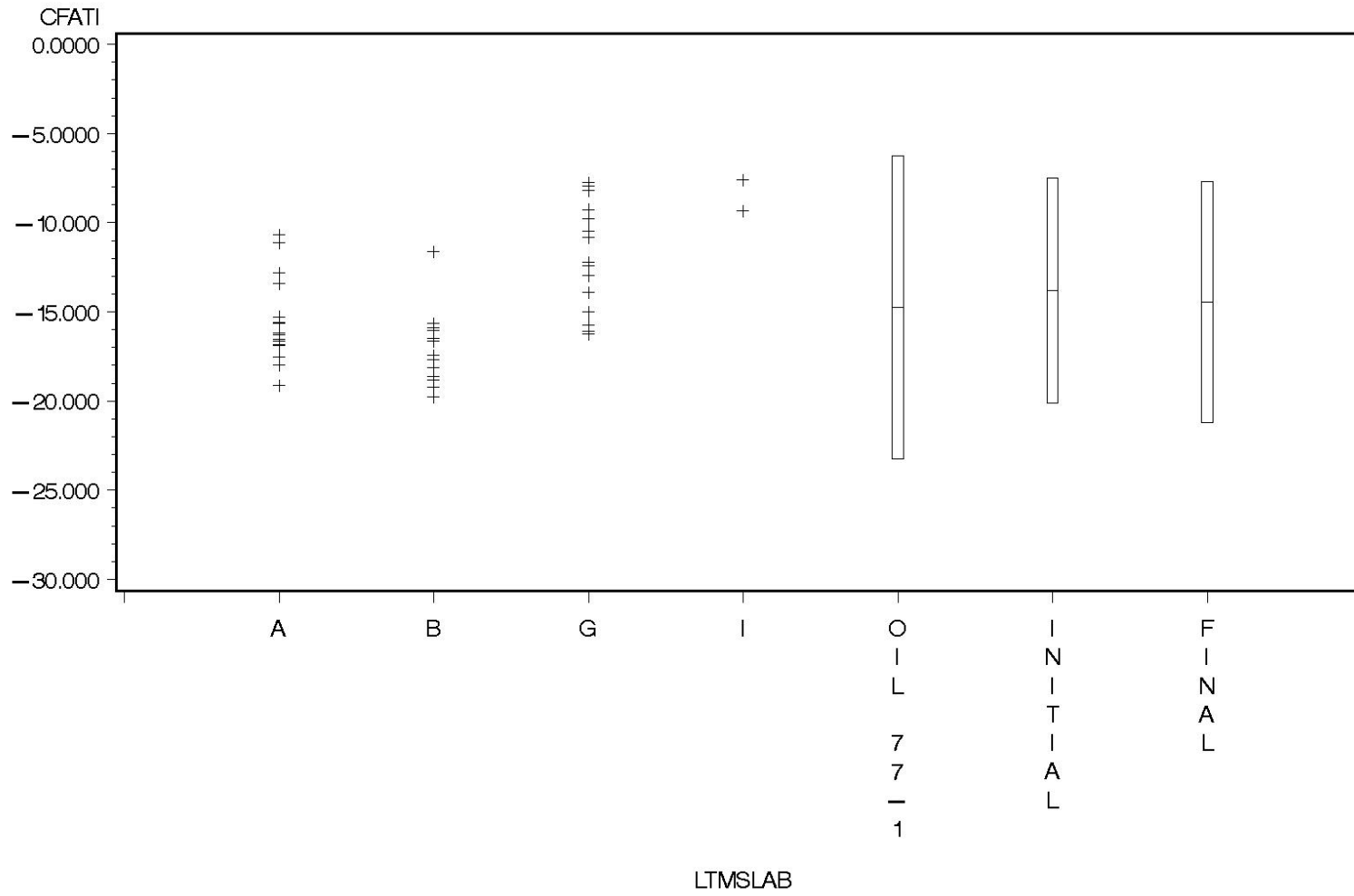
Change in Flowrate Average, 2.0% Water Concentration



EOWT Reference Oil 77-2

Test Target Data Set and Acceptance Bands

Change in Flowrate Average, 3.0% Water Concentration



TESTKEY	LTMSLAB	IND	VAL	CHART	LTMSDATE	LTMSTIME	DTCOMP	SPECIAL	CF1_R001	CF2_R001	CFA
88741-EOWT	A	77-2	NI	N	20120920	13:23	20120920	0.6	-8.57	-8.11	-8.34
88745-EOWT	A	77-2	NI	N	20120921	13:39	20120921	0.6	-20	-16.67	-18.34
88749-EOWT	A	77-2	NI	N	20120926	08:48	20120926	0.6	-7.89	-13.89	-10.89
91297-EOWT	A	77-2	AC	Y	20121206	13:47	20121206	0.6	-15.38	-15.79	-15.59
91301-EOWT	A	77-2	AC	Y	20121213	14:03	20121213	0.6	-16.28	-15.38	-15.83
91305-EOWT	A	77-2	AC	Y	20121220	09:31	20121220	0.6	-18.75	-17.02	-17.89
91309-EOWT	A	77-2	AC	Y	20130117	13:56	20130117	0.6	-11.11	-9.52	-10.32
91313-EOWT	A	77-2	AC	Y	20130118	09:26	20130118	0.6	-12.5	-17.39	-14.95
91317-EOWT	A	77-2	AC	Y	20130118	14:25	20130118	0.6	-14.63	-18.18	-16.41
91951-EOWT	A	77-2	AC	Y	20130131	13:21	20130131	0.6	-12.77	-14	-13.39
91955-EOWT	A	77-2	AC	Y	20130425	13:33	20130425	0.6	-13.64	-13.95	-13.8
91959-EOWT	A	77-2	AC	Y	20130502	13:05	20130502	0.6	-10.53	-11.11	-10.82
93659-EOWT	A	77-2	AC	Y	20130508	12:59	20130508	0.6	-12.2	-15	-13.6
93663-EOWT	A	77-2	AC	Y	20130509	09:20	20130509	0.6	-11.11	-13.16	-12.14
93667-EOWT	A	77-2	AC	Y	20130515	13:03	20130515	0.6	-13.16	-12.5	-12.83
94312-EOWT	A	77-2	AC	Y	20130607	13:57	20130607	0.6	-15.69	-12.5	-14.1
89282-EOWT	B	77-2	NI	N	20120930	14:16	20120930	0.6	-8.33	-10	-9.17
89286-EOWT	B	77-2	NI	N	20121017	14:42	20121017	0.6	-15.91	-17.39	-16.65
89290-EOWT	B	77-2	NI	N	20121017	14:42	20121017	0.6	-18	-13.04	-15.52
92306-EOWT	B	77-2	AC	Y	20130307	16:41	20130307	0.6	-16.8	-8.46	-12.63
92310-EOWT	B	77-2	AC	Y	20130321	14:49	20130321	0.6	-11.74	-6.96	-9.35
92314-EOWT	B	77-2	AC	Y	20130411	17:34	20130411	0.6	-11.63	-6.67	-9.15
93470-EOWT	B	77-2	AC	Y	20130418	15:59	20130418	0.6	-12.2	-11.11	-11.65
93474-EOWT	B	77-2	AC	Y	20130426	13:45	20130426	0.6	-8.11	-12.5	-10.31
93478-EOWT	B	77-2	AC	Y	20130502	14:18	20130502	0.6	-8.11	-9.76	-8.94
93482-EOWT	B	77-2	AC	Y	20130522	14:37	20130522	0.6	-11.63	-10.53	-11.08
93486-EOWT	B	77-2	AC	Y	20130523	14:41	20130523	0.6	-9.38	-11.63	-10.51
93490-EOWT	B	77-2	AC	Y	20130530	17:06	20130530	0.6	-10	-9.76	-9.88
94384-EOWT	B	77-2	AC	Y	20130531	16:09	20130531	0.6	-12.2	-10.26	-11.23
89805-EOWT	G	77-2	NI	N	20120912	17:00	20120912	0.6	-10.21	-11.07	-10.64
89809-EOWT	G	77-2	NI	N	20120914	17:00	20120914	0.6	-10.29	-10.91	-10.6
89813-EOWT	G	77-2	NI	N	20120919	17:00	20120919	0.6	-8.13	-14.43	-11.28
90273-EOWT	G	77-2	AC	Y	20121207	17:00	20121207	0.6	-14.41	-14.61	-14.51
90277-EOWT	G	77-2	AC	Y	20130118	17:00	20130118	0.6	-12.7	-9.98	-11.34
90281-EOWT	G	77-2	AC	Y	20130124	17:00	20130124	0.6	-6.98	-7.11	-7.05
92452-EOWT	G	77-2	AC	Y	20130201	17:00	20130201	0.6	-8.12	-6.18	-7.15
92456-EOWT	G	77-2	AC	Y	20130208	17:00	20130208	0.6	-9.27	-9.4	-9.34
92460-EOWT	G	77-2	AC	Y	20130215	17:00	20130215	0.6	-5.97	-6.12	-6.05
92464-EOWT	G	77-2	AC	Y	20130307	17:00	20130307	0.6	-6.02	-7.92	-6.97
92468-EOWT	G	77-2	AC	Y	20130314	17:00	20130314	0.6	-5.89	-6.36	-6.13
92472-EOWT	G	77-2	AC	Y	20130408	17:00	20130408	0.6	-18.7	-14.29	-16.5
93408-EOWT	G	77-2	AC	Y	20130422	17:00	20130422	0.6	-5.46	-6.35	-5.91
93412-EOWT	G	77-2	AC	Y	20130515	17:00	20130515	0.6	-12.83	-15.15	-13.99
93416-EOWT	G	77-2	AC	Y	20130518	17:00	20130518	0.6	-13.36	-11.77	-12.57
94517-EOWT	G	77-2	AC	Y	20130523	17:00	20130523	0.6	-10.77	-15.28	-13.03
89793-EOWT	I	77-2	AC	Y	20130211	15:00	20130211	0.6	-17.14	-18.92	-18.03
89797-EOWT	I	77-2	AC	Y	20130508	15:00	20130508	0.6	-13.45	-13.41	-13.43

TESTKEY	LTMSLAB	IND	VAL	CHART	LTMSDATE	LTMSTIME	DTCOMP	SPECIAL	CF1_R001	CF2_R001	CFA
88742-EOWT	A	77-2	NI	N	20120920	13:21	20120920	1.0	-5.71	-11.11	-8.41
88746-EOWT	A	77-2	NI	N	20120921	13:45	20120921	1.0	-5.71	-5.41	-5.56
88750-EOWT	A	77-2	NI	N	20120926	08:43	20120926	1.0	-7.89	-8.57	-8.23
91298-EOWT	A	77-2	AC	Y	20121206	13:32	20121206	1.0	-15	-12.82	-13.91
91302-EOWT	A	77-2	AC	Y	20121213	13:53	20121213	1.0	-17.95	-10	-13.98
91306-EOWT	A	77-2	AC	Y	20121220	09:23	20121220	1.0	-12.5	-20	-16.25
91310-EOWT	A	77-2	AC	Y	20130117	13:59	20130117	1.0	-10	-11.63	-10.82
91314-EOWT	A	77-2	AC	Y	20130118	09:19	20130118	1.0	-14.63	-12.5	-13.57
91318-EOWT	A	77-2	AC	Y	20130118	13:39	20130118	1.0	-13.33	-15	-14.17
91952-EOWT	A	77-2	AC	Y	20130131	13:23	20130131	1.0	-13.64	-12.77	-13.21
91956-EOWT	A	77-2	AC	Y	20130425	13:44	20130425	1.0	-7.5	-15	-11.25
91960-EOWT	A	77-2	AC	Y	20130502	14:05	20130502	1.0	-19.51	-12.5	-16.01
93660-EOWT	A	77-2	AC	Y	20130508	13:04	20130508	1.0	-13.33	-14.63	-13.98
93664-EOWT	A	77-2	AC	Y	20130509	09:23	20130509	1.0	-15	-12.5	-13.75
93668-EOWT	A	77-2	AC	Y	20130515	13:05	20130515	1.0	-12.82	-10.53	-11.68
94313-EOWT	A	77-2	AC	Y	20130607	14:30	20130607	1.0	-14.29	-10.53	-12.41
89283-EOWT	B	77-2	NI	N	20120930	14:16	20120930	1.0	-9.76	-11.11	-10.43
89287-EOWT	B	77-2	NI	N	20121017	14:42	20121017	1.0	-15.22	-19.57	-17.39
89291-EOWT	B	77-2	NI	N	20121017	14:42	20121017	1.0	-16.33	-17.07	-16.7
92307-EOWT	B	77-2	AC	Y	20130307	16:41	20130307	1.0	-5.99	-11.31	-8.65
92311-EOWT	B	77-2	AC	Y	20130321	14:49	20130321	1.0	-6.88	-11.13	-9.01
92315-EOWT	B	77-2	AC	Y	20130411	17:34	20130411	1.0	-15.79	-9.52	-12.66
93471-EOWT	B	77-2	AC	Y	20130418	15:59	20130418	1.0	-8.89	-11.36	-10.12
93475-EOWT	B	77-2	AC	Y	20130426	13:45	20130426	1.0	-11.11	-9.3	-10.21
93479-EOWT	B	77-2	AC	Y	20130502	14:18	20130502	1.0	-12.5	-10.26	-11.38
93483-EOWT	B	77-2	AC	Y	20130522	14:37	20130522	1.0	-15.69	-9.3	-12.5
93487-EOWT	B	77-2	AC	Y	20130523	14:41	20130523	1.0	-13.16	-9.3	-11.23
93491-EOWT	B	77-2	AC	Y	20130530	17:06	20130530	1.0	-9.3	-11.11	-10.2
94385-EOWT	B	77-2	AC	Y	20130531	16:09	20130531	1.0	-10.26	-15	-12.63
89806-EOWT	G	77-2	NI	N	20120912	17:00	20120912	1.0	-9.94	-8.39	-9.17
89810-EOWT	G	77-2	NI	N	20120914	17:00	20120914	1.0	-8.22	-9.58	-8.9
89814-EOWT	G	77-2	NI	N	20120919	17:00	20120919	1.0	-12.49	-11.81	-12.15
90274-EOWT	G	77-2	AC	Y	20121207	17:00	20121207	1.0	-19.24	-11.91	-15.58
90278-EOWT	G	77-2	AC	Y	20130118	17:00	20130118	1.0	-9.67	-8.73	-9.2
90282-EOWT	G	77-2	AC	Y	20130124	17:00	20130124	1.0	-3.11	-4.19	-3.65
92453-EOWT	G	77-2	AC	Y	20130201	17:00	20130201	1.0	-10.83	-3.16	-7
92457-EOWT	G	77-2	AC	Y	20130208	17:00	20130208	1.0	-8.04	-9.78	-8.91
92461-EOWT	G	77-2	AC	Y	20130215	17:00	20130215	1.0	-5.38	-10.07	-7.73
92465-EOWT	G	77-2	AC	Y	20130307	17:00	20130307	1.0	-9.15	-12.37	-10.76
92469-EOWT	G	77-2	AC	Y	20130314	17:00	20130314	1.0	-3.32	-3.38	-3.35
92473-EOWT	G	77-2	AC	Y	20130408	17:00	20130408	1.0	-14.87	-10.84	-12.86
93409-EOWT	G	77-2	AC	Y	20130422	17:00	20130422	1.0	-5.23	-6.28	-5.76
93413-EOWT	G	77-2	AC	Y	20130515	17:00	20130515	1.0	-12.55	-12.32	-12.44
93417-EOWT	G	77-2	AC	Y	20130518	17:00	20130518	1.0	-14.96	-10.17	-12.57
94518-EOWT	G	77-2	AC	Y	20130523	17:00	20130523	1.0	-15.46	-14.62	-15.04
89794-EOWT	I	77-2	AC	Y	20130212	15:00	20130212	1.0	-5.41	-5.84	-5.63
89798-EOWT	I	77-2	AC	Y	20130510	15:00	20130510	1.0	-5.99	-6.02	-6.01

TESTKEY	LTMSLAB	IND	VAL	CHART	LTMSDATE	LTMSTIME	DTCOMP	SPECIAL	CF1_R001	CF2_R001	CFA
88743-EOWT	A	77-2	NI	N	20120920	13:59	20120920	2.0	-8.82	-8.57	-8.7
88747-EOWT	A	77-2	NI	N	20120921	14:18	20120921	2.0	-10.26	-10.26	-10.26
88751-EOWT	A	77-2	NI	N	20120926	09:27	20120926	2.0	-7.32	-11.11	-9.22
91299-EOWT	A	77-2	AC	Y	20121206	14:35	20121206	2.0	-12.5	-16.22	-14.36
91303-EOWT	A	77-2	AC	Y	20121213	14:55	20121213	2.0	-11.9	-16.67	-14.29
91307-EOWT	A	77-2	AC	Y	20121220	10:14	20121220	2.0	-18.18	-17.39	-17.79
91311-EOWT	A	77-2	AC	Y	20130117	14:58	20130117	2.0	-17.39	-13.04	-15.22
91315-EOWT	A	77-2	AC	Y	20130118	10:59	20130118	2.0	-10.53	-11.9	-11.22
91319-EOWT	A	77-2	AC	Y	20130118	15:17	20130118	2.0	-15	-14.63	-14.82
91953-EOWT	A	77-2	AC	Y	20130131	14:03	20130131	2.0	-14.63	-16.28	-15.46
91957-EOWT	A	77-2	AC	Y	20130425	13:47	20130425	2.0	-14.29	-16.67	-15.48
91961-EOWT	A	77-2	AC	Y	20130502	13:58	20130502	2.0	-17.39	-17.07	-17.23
93661-EOWT	A	77-2	AC	Y	20130508	13:57	20130508	2.0	-17.78	-15	-16.39
93665-EOWT	A	77-2	AC	Y	20130509	11:37	20130509	2.0	-17.78	-14.63	-16.21
93669-EOWT	A	77-2	AC	Y	20130515	14:27	20130515	2.0	-17.5	-15.38	-16.44
94314-EOWT	A	77-2	AC	Y	20130607	14:42	20130607	2.0	-12.82	-10	-11.41
89284-EOWT	B	77-2	NI	N	20120930	14:16	20120930	2.0	-9.52	-12.82	-11.17
89288-EOWT	B	77-2	NI	N	20121017	14:42	20121017	2.0	-17.65	-23.33	-20.49
89292-EOWT	B	77-2	NI	N	20121017	14:42	20121017	2.0	-19.61	-18.37	-18.99
92308-EOWT	B	77-2	AC	Y	20130307	16:41	20130307	2.0	-8.42	-8.67	-8.55
92312-EOWT	B	77-2	AC	Y	20130321	14:49	20130321	2.0	-12.9	-10.38	-11.64
92316-EOWT	B	77-2	AC	Y	20130411	17:34	20130411	2.0	-13.64	-15.91	-14.77
93472-EOWT	B	77-2	AC	Y	20130418	15:59	20130418	2.0	-11.36	-9.09	-10.23
93476-EOWT	B	77-2	AC	Y	20130426	13:45	20130426	2.0	-10.87	-11.63	-11.25
93480-EOWT	B	77-2	AC	Y	20130502	14:18	20130502	2.0	-13.33	-12.5	-12.92
93484-EOWT	B	77-2	AC	Y	20130522	14:37	20130522	2.0	-13.95	-8.89	-11.42
93488-EOWT	B	77-2	AC	Y	20130523	14:41	20130523	2.0	-10.64	-11.11	-10.87
93492-EOWT	B	77-2	AC	Y	20130530	17:06	20130530	2.0	-11.63	-11.9	-11.76
94386-EOWT	B	77-2	AC	Y	20130531	16:09	20130531	2.0	-17.78	-13.33	-15.55
89807-EOWT	G	77-2	NI	N	20120912	17:00	20120912	2.0	-12.18	-7.99	-10.09
89811-EOWT	G	77-2	NI	N	20120914	17:00	20120914	2.0	-8.47	-11.39	-9.93
89815-EOWT	G	77-2	NI	N	20120919	17:00	20120919	2.0	-12.48	-14.68	-13.58
90275-EOWT	G	77-2	AC	Y	20121207	17:00	20121207	2.0	-15.32	-10.14	-12.73
90279-EOWT	G	77-2	AC	Y	20130118	17:00	20130118	2.0	-9.11	-8.99	-9.05
90283-EOWT	G	77-2	AC	Y	20130124	17:00	20130124	2.0	-6.68	-11.08	-8.88
92454-EOWT	G	77-2	AC	Y	20130201	17:00	20130201	2.0	-7.95	-7.21	-7.58
92458-EOWT	G	77-2	AC	Y	20130208	17:00	20130208	2.0	-10.01	-11.97	-10.99
92462-EOWT	G	77-2	AC	Y	20130215	17:00	20130215	2.0	-7.5	-8.87	-8.19
92466-EOWT	G	77-2	AC	Y	20130307	17:00	20130307	2.0	-10.68	-9.13	-9.91
92470-EOWT	G	77-2	AC	Y	20130314	17:00	20130314	2.0	-4.27	-6.08	-5.18
92474-EOWT	G	77-2	AC	Y	20130408	17:00	20130408	2.0	-7.61	-10.6	-9.11
93410-EOWT	G	77-2	AC	Y	20130422	17:00	20130422	2.0	-8.66	-9.75	-9.21
93414-EOWT	G	77-2	AC	Y	20130515	17:00	20130515	2.0	-13.94	-13.25	-13.6
93418-EOWT	G	77-2	AC	Y	20130518	17:00	20130518	2.0	-6.84	-6.97	-6.91
94519-EOWT	G	77-2	AC	Y	20130523	17:00	20130523	2.0	-13.94	-14.64	-14.29
89795-EOWT	I	77-2	AC	Y	20130213	15:00	20130213	2.0	-8.57	-8.33	-8.45
89799-EOWT	I	77-2	AC	Y	20130515	15:00	20130515	2.0	-7.42	-7.21	-7.32

TESTKEY	LTMSLAB	IND	VAL	CHART	LTMSDATE	LTMSTIME	DTCOMP	SPECIAL	CF1_R001	CF2_R001	CFA
88744-EOWT	A	77-2	NI	N	20120920	13:58	20120920	3.0	-13.89	-8.33	-11.11
88748-EOWT	A	77-2	NI	N	20120921	14:21	20120921	3.0	-10.53	-10.81	-10.67
88752-EOWT	A	77-2	NI	N	20120926	09:26	20120926	3.0	-14.29	-12.5	-13.4
91300-EOWT	A	77-2	AC	Y	20121206	14:05	20121206	3.0	-15.79	-15.38	-15.59
91304-EOWT	A	77-2	AC	Y	20121213	14:35	20121213	3.0	-18.42	-14.63	-16.53
91308-EOWT	A	77-2	AC	Y	20121220	10:04	20121220	3.0	-17.78	-20.45	-19.12
91312-EOWT	A	77-2	AC	Y	20130117	15:12	20130117	3.0	-17.39	-16.28	-16.84
91316-EOWT	A	77-2	AC	Y	20130118	10:45	20130118	3.0	-18.42	-17.5	-17.96
91320-EOWT	A	77-2	AC	Y	20130118	14:23	20130118	3.0	-15	-15.56	-15.28
91954-EOWT	A	77-2	AC	Y	20130131	13:56	20130131	3.0	-16.67	-15.91	-16.29
91958-EOWT	A	77-2	AC	Y	20130425	14:30	20130425	3.0	-15	-16.28	-15.64
91962-EOWT	A	77-2	AC	Y	20130502	16:07	20130502	3.0	-16.28	-17.5	-16.89
93662-EOWT	A	77-2	AC	Y	20130508	14:28	20130508	3.0	-17.5	-15.79	-16.65
93666-EOWT	A	77-2	AC	Y	20130509	10:43	20130509	3.0	-20.45	-14.63	-17.54
93670-EOWT	A	77-2	AC	Y	20130515	14:10	20130515	3.0	-12.5	-13.16	-12.83
94315-EOWT	A	77-2	AC	Y	20130607	14:58	20130607	3.0	-17.78	-14.63	-16.21
89285-EOWT	B	77-2	NI	N	20120930	14:16	20120930	3.0	-13.51	-9.76	-11.64
89289-EOWT	B	77-2	NI	N	20121017	14:42	20121017	3.0	-19.57	-20	-19.79
89293-EOWT	B	77-2	NI	N	20121017	14:42	20121017	3.0	-19.61	-16.67	-18.14
92309-EOWT	B	77-2	AC	Y	20130307	16:41	20130307	3.0	-18.21	-17.13	-17.67
92313-EOWT	B	77-2	AC	Y	20130321	14:49	20130321	3.0	-17.51	-17.39	-17.45
92317-EOWT	B	77-2	AC	Y	20130411	17:34	20130411	3.0	-15.91	-17.39	-16.65
93473-EOWT	B	77-2	AC	Y	20130418	15:59	20130418	3.0	-17.39	-15.56	-16.48
93477-EOWT	B	77-2	AC	Y	20130426	13:45	20130426	3.0	-18.75	-13.33	-16.04
93481-EOWT	B	77-2	AC	Y	20130502	14:18	20130502	3.0	-16.67	-20.93	-18.8
93485-EOWT	B	77-2	AC	Y	20130522	14:37	20130522	3.0	-12.2	-19.57	-15.88
93489-EOWT	B	77-2	AC	Y	20130523	14:41	20130523	3.0	-15	-16.28	-15.64
93493-EOWT	B	77-2	AC	Y	20130530	17:06	20130530	3.0	-18.6	-18.6	-18.6
94387-EOWT	B	77-2	AC	Y	20130531	16:09	20130531	3.0	-20	-18.42	-19.21
89808-EOWT	G	77-2	NI	N	20120912	17:00	20120912	3.0	-12.92	-11.51	-12.22
89812-EOWT	G	77-2	NI	N	20120914	17:00	20120914	3.0	-12.23	-12.23	-12.23
89816-EOWT	G	77-2	NI	N	20120919	17:00	20120919	3.0	-14.8	-15.24	-15.02
90276-EOWT	G	77-2	AC	Y	20121207	17:00	20121207	3.0	-8.51	-7.83	-8.17
90280-EOWT	G	77-2	AC	Y	20130118	17:00	20130118	3.0	-8.54	-9.99	-9.27
90284-EOWT	G	77-2	AC	Y	20130124	17:00	20130124	3.0	-12.29	-12.53	-12.41
92455-EOWT	G	77-2	AC	Y	20130201	17:00	20130201	3.0	-6.56	-8.93	-7.75
92459-EOWT	G	77-2	AC	Y	20130208	17:00	20130208	3.0	-11.88	-14.02	-12.95
92463-EOWT	G	77-2	AC	Y	20130215	17:00	20130215	3.0	-10.07	-9.46	-9.77
92467-EOWT	G	77-2	AC	Y	20130307	17:00	20130307	3.0	-12.6	-15.24	-13.92
92471-EOWT	G	77-2	AC	Y	20130314	17:00	20130314	3.0	-10.92	-10.7	-10.81
92475-EOWT	G	77-2	AC	Y	20130408	17:00	20130408	3.0	-11.69	-9.21	-10.45
93411-EOWT	G	77-2	AC	Y	20130422	17:00	20130422	3.0	-15.75	-16.74	-16.25
93415-EOWT	G	77-2	AC	Y	20130515	17:00	20130515	3.0	-16.88	-14.56	-15.72
93419-EOWT	G	77-2	AC	Y	20130518	17:00	20130518	3.0	-8.22	-7.63	-7.93
94520-EOWT	G	77-2	AC	Y	20130523	17:00	20130523	3.0	-17.08	-15.06	-16.07
89796-EOWT	I	77-2	AC	Y	20130214	15:00	20130214	3.0	-8.57	-6.62	-7.6
89800-EOWT	I	77-2	AC	Y	20130516	15:00	20130516	3.0	-9.56	-9.1	-9.33