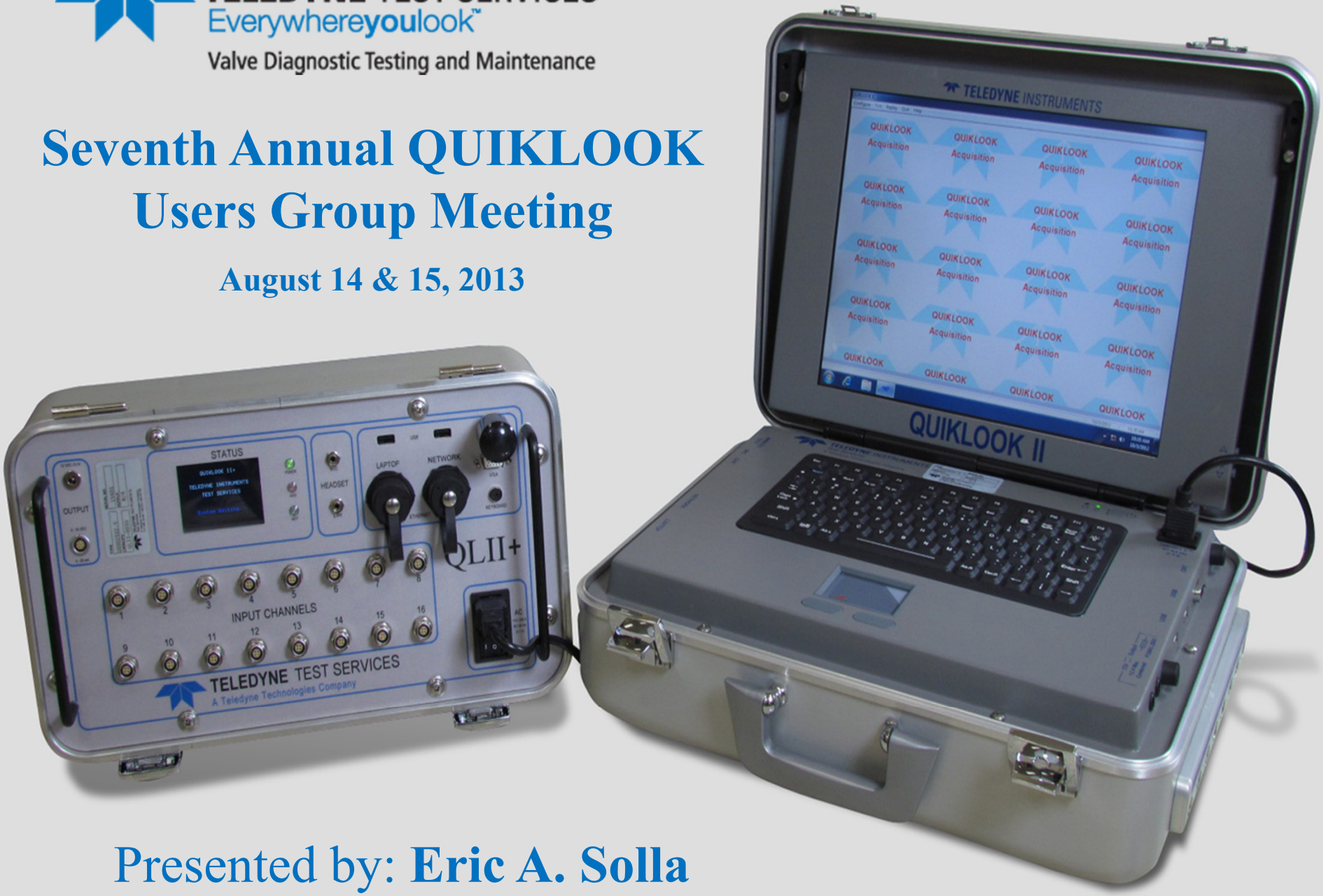
TELEDYNE TEST SERVICES
Everywhereyoulook™
Valve Diagnostic Testing and Maintenance

Seventh Annual QUIKLOOK Users Group Meeting

August 14 & 15, 2013



Presented by: **Eric A. Solla**

TELEDYNE TEST SERVICES
Everywhereyoulook™
Valve Diagnostic Testing and Maintenance

QUIKLOOK II
SOFTWARE
New Program Features

Software Engineer
Eric A. Solla

QUIKLOOK II Software

- Version 2012.061
  - Released March 2012.
- Version 2013.213
  - Released August 2013.

QUIKLOOK II Software

Software Error Notices

- Version 2012.62
  - Error Notice 2012.62-1
    - On a QUIKLOOK acquisition computer if the system is shutdown improperly an offset may be introduced in the analog output channels. The 4-20/10-50 ma current values recorded will be correct but may be slightly different from what was requested.
    - This problem has only occurred on QLII Suitcases running Windows XP
    - This offset may reset if the computer is left unplugged for five minutes. Under some instances the offset may not disappear even if left unplugged for a period of time

QUIKLOOK II Software

Software Error Notices

- Error Notice 2012.62-1
  - Workaround:
    - Install the “Quiklook KUSB Patch”. This patch will install a small program that will run on startup that will ensure that the offset is reset properly before Quiklook starts
  - Notes:
    - If while in the Monitor screen the current or voltage reading for the control signal channel differs from the requested value by more than 1% than you may have this issue
    - It is recommended that all Quiklook systems that are used for AOV testing have this patch installed
    - This has been fixed in Quiklook 2013

QUIKLOOK II Software

Software Error Notices

- Version 2012.62
  - Error Notice 2012.62-2
    - Quiklook software contains a bug that causes an offset to occur on channels with low level inputs. This bug is related to the AutoZero function on Quiklook II/+ systems built with Keithley data acquisition cards.
    - The magnitude of the error, when it occurs, is observed to be up to approximately 1% of range.
    - This error has no impact on data validity due to normal trace zeroing methods, its overall magnitude, and a number of other mitigating factors

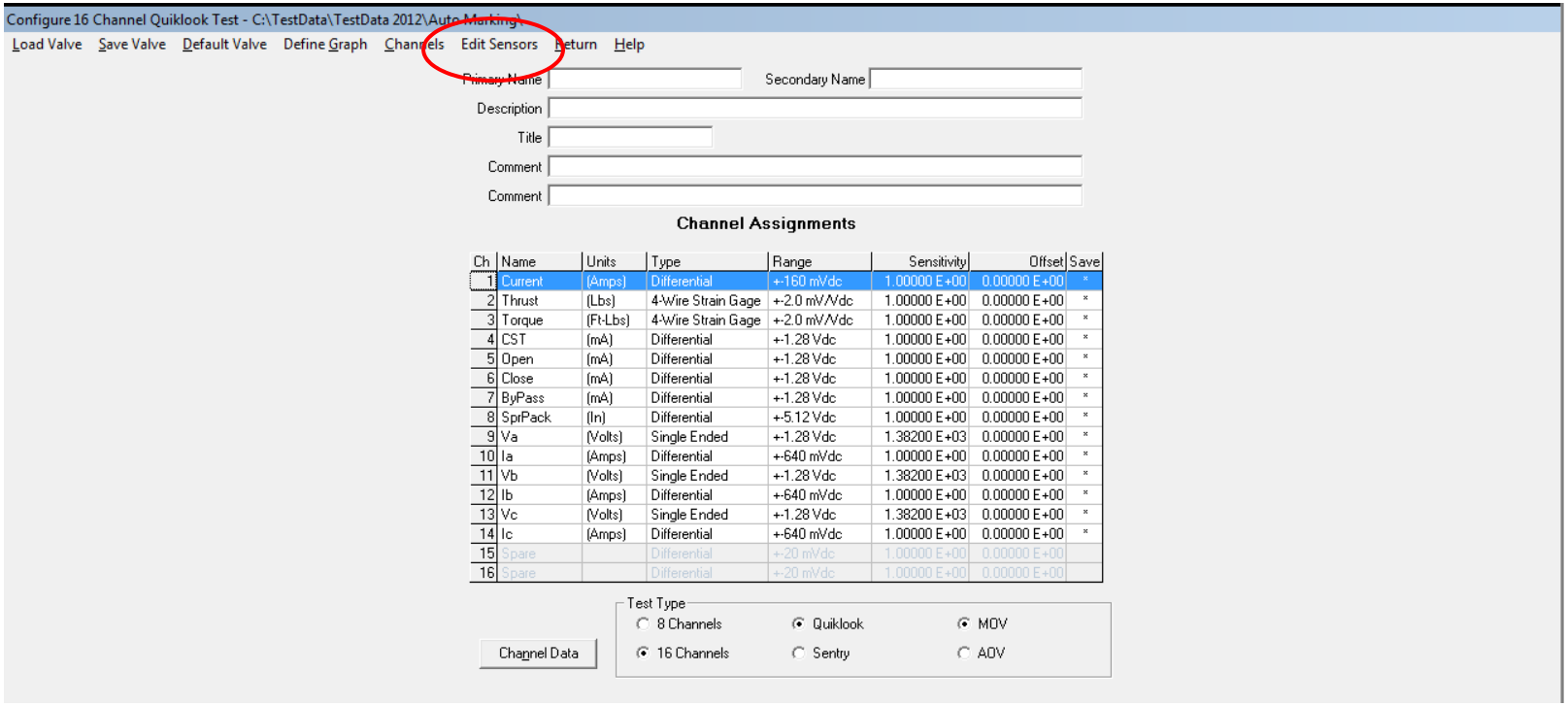
QUIKLOOK II Software

Software Error Notices

- Error Notice 2012.62-2
  - Workaround:
    - Data collected is not impacted. There is no need for a workaround.
    - This bug has been resolved with the release of Quiklook 2013
  - Notes:
    - This error only occurs on Keithley Quiklook systems. It occurs with all versions of Quiklook software prior to Quiklook 2013

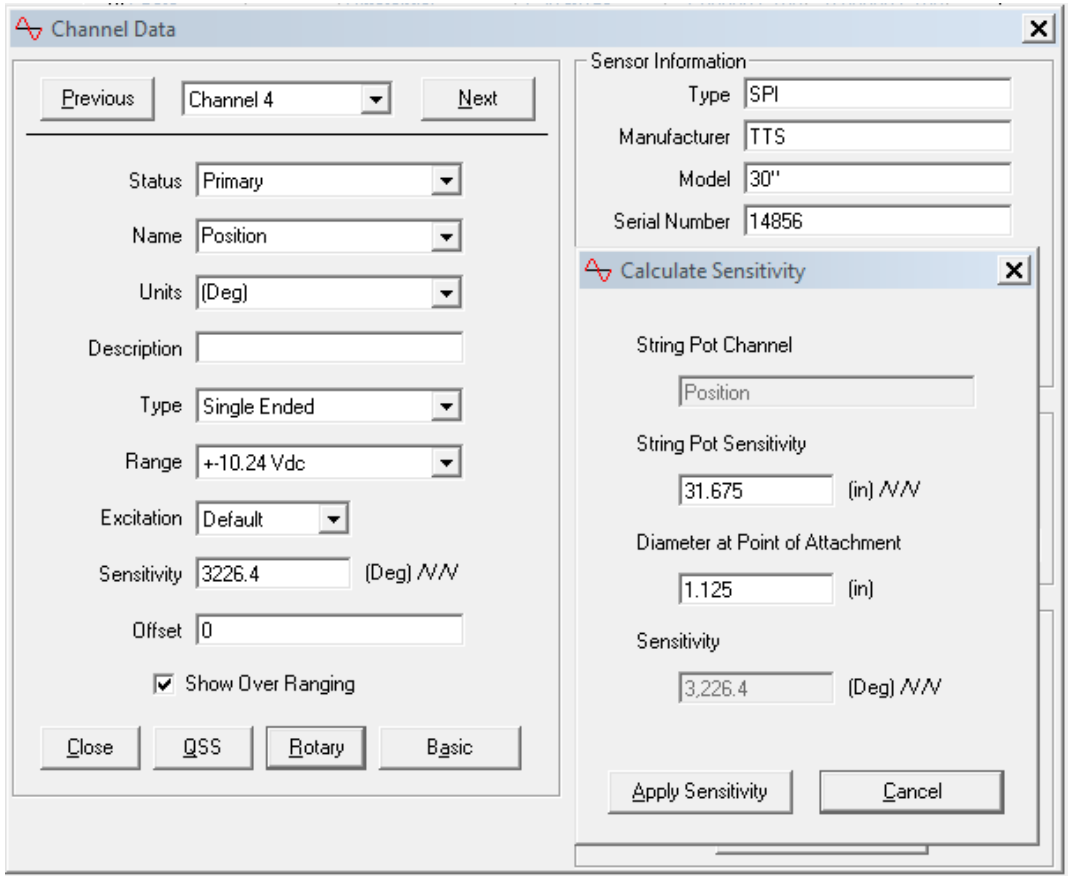
NEW FEATURES 2013

- Configuration
  - Edit Sensor Database from Configuration Screen



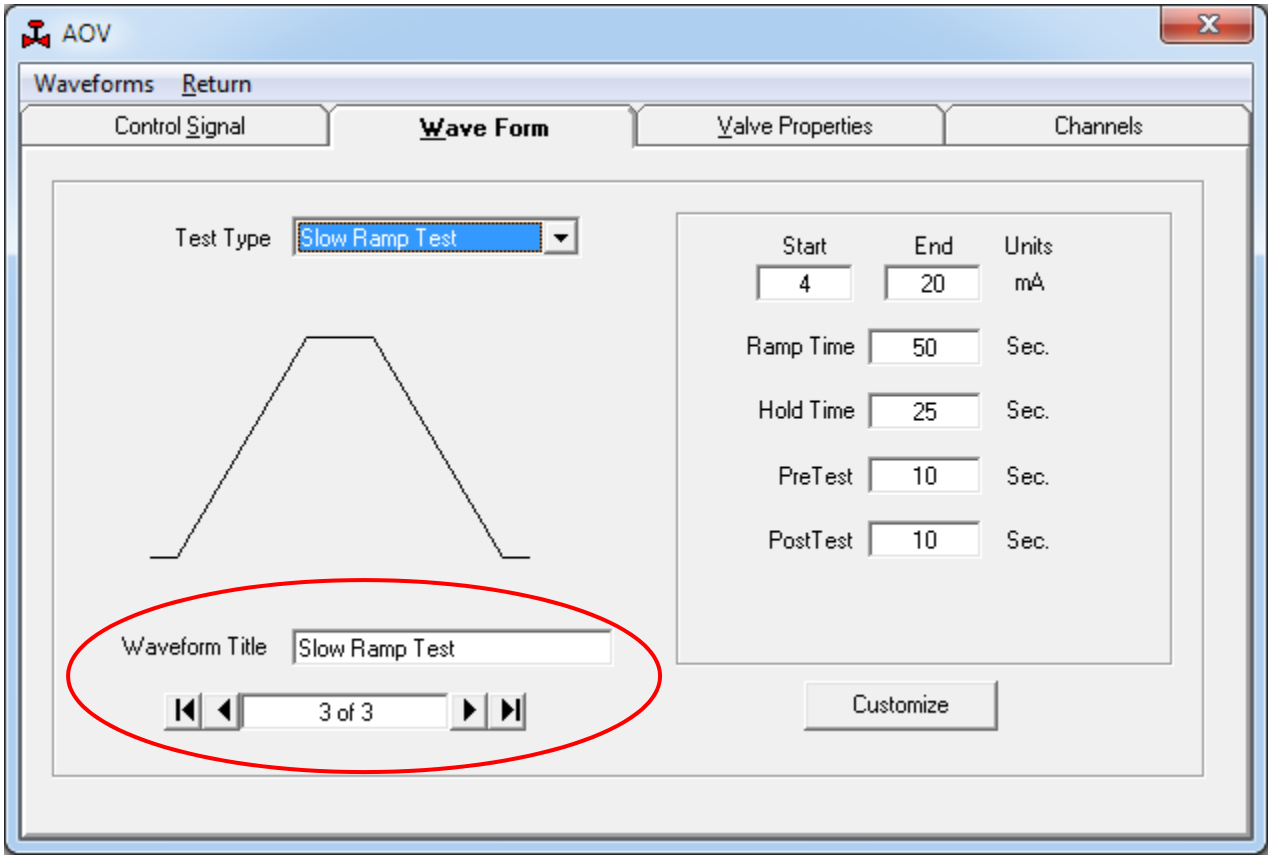
NEW FEATURES 2013

- Configuration
  - Calculate Rotary Sensitivity – Available for MOV & AOV
  - Remembers String Pot Sensitivity

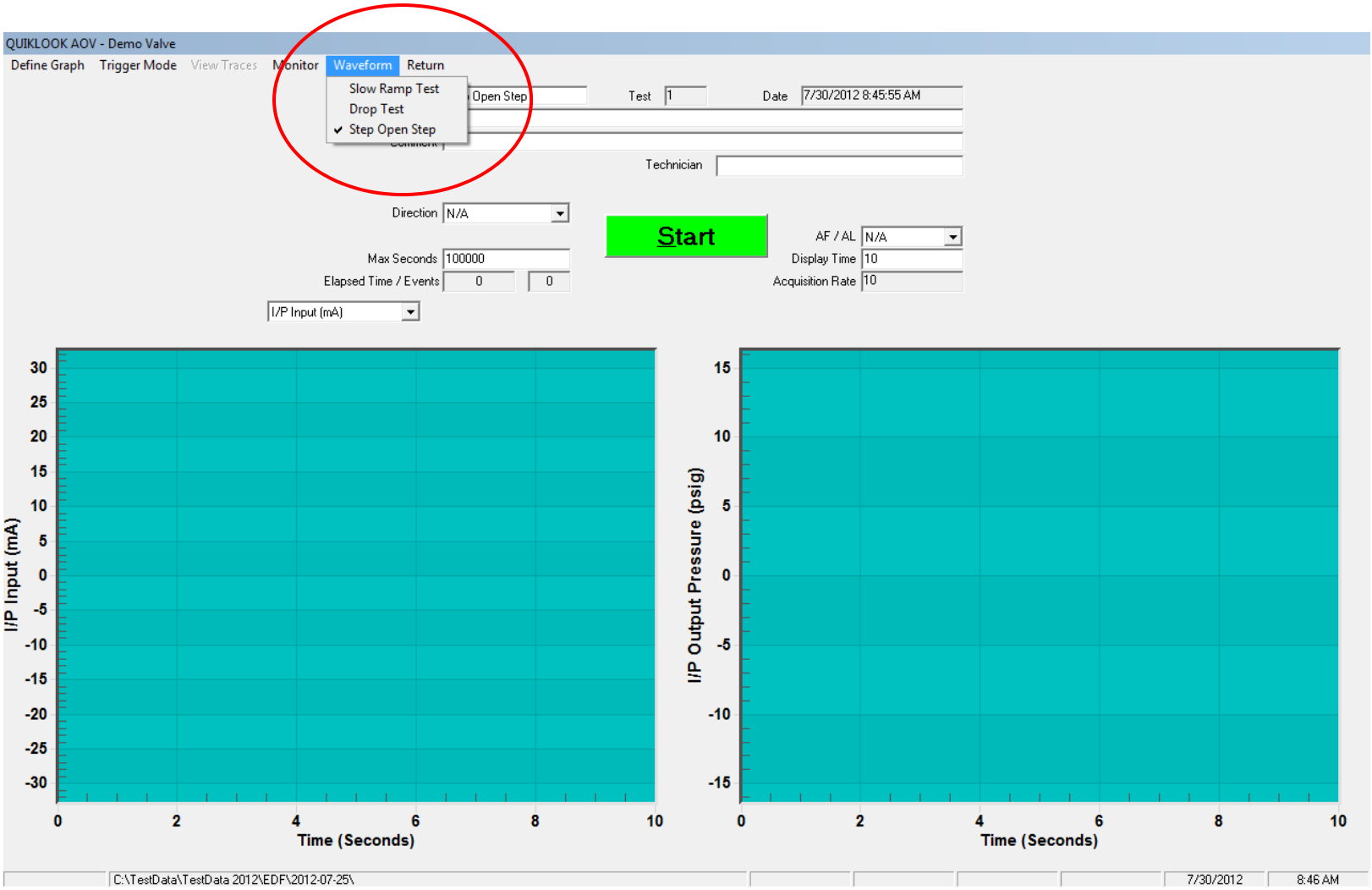


NEW FEATURES 2013

- AOV Multiple Waveforms

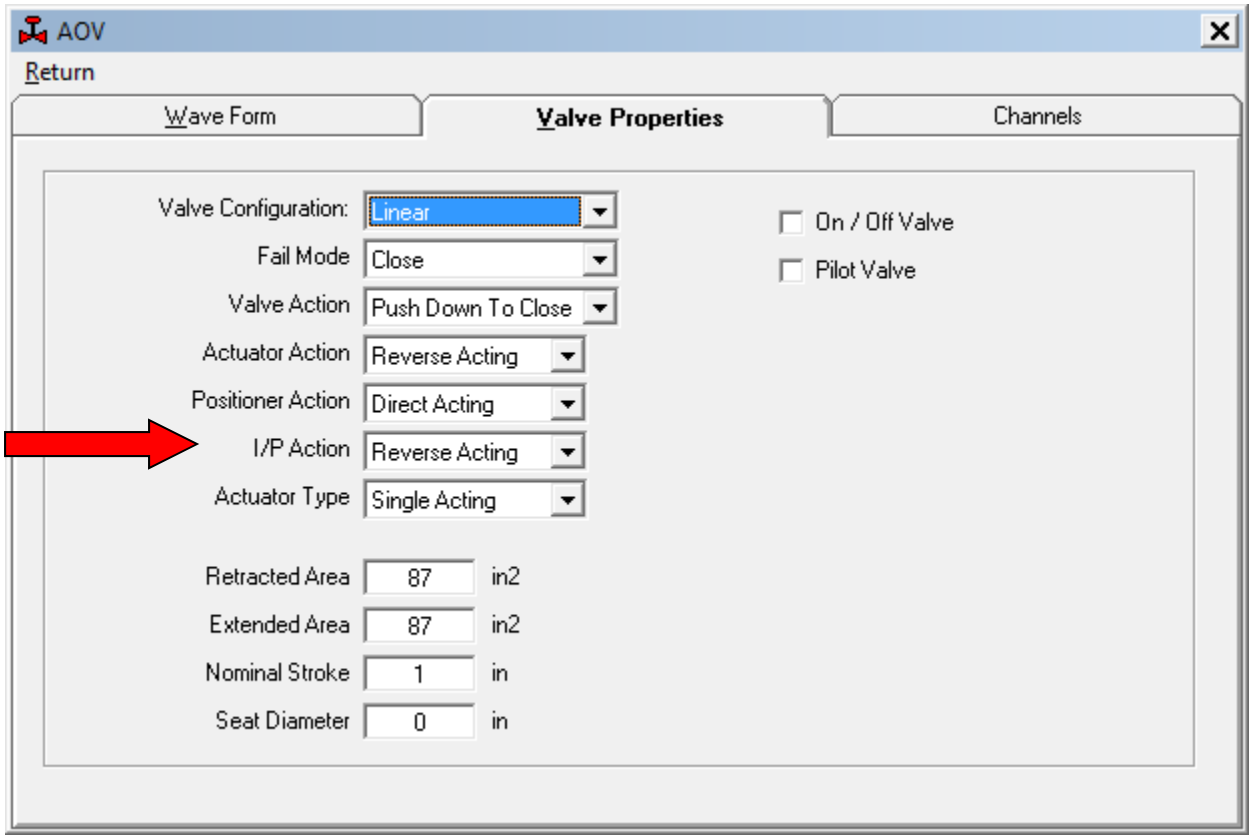


NEW FEATURES 2013

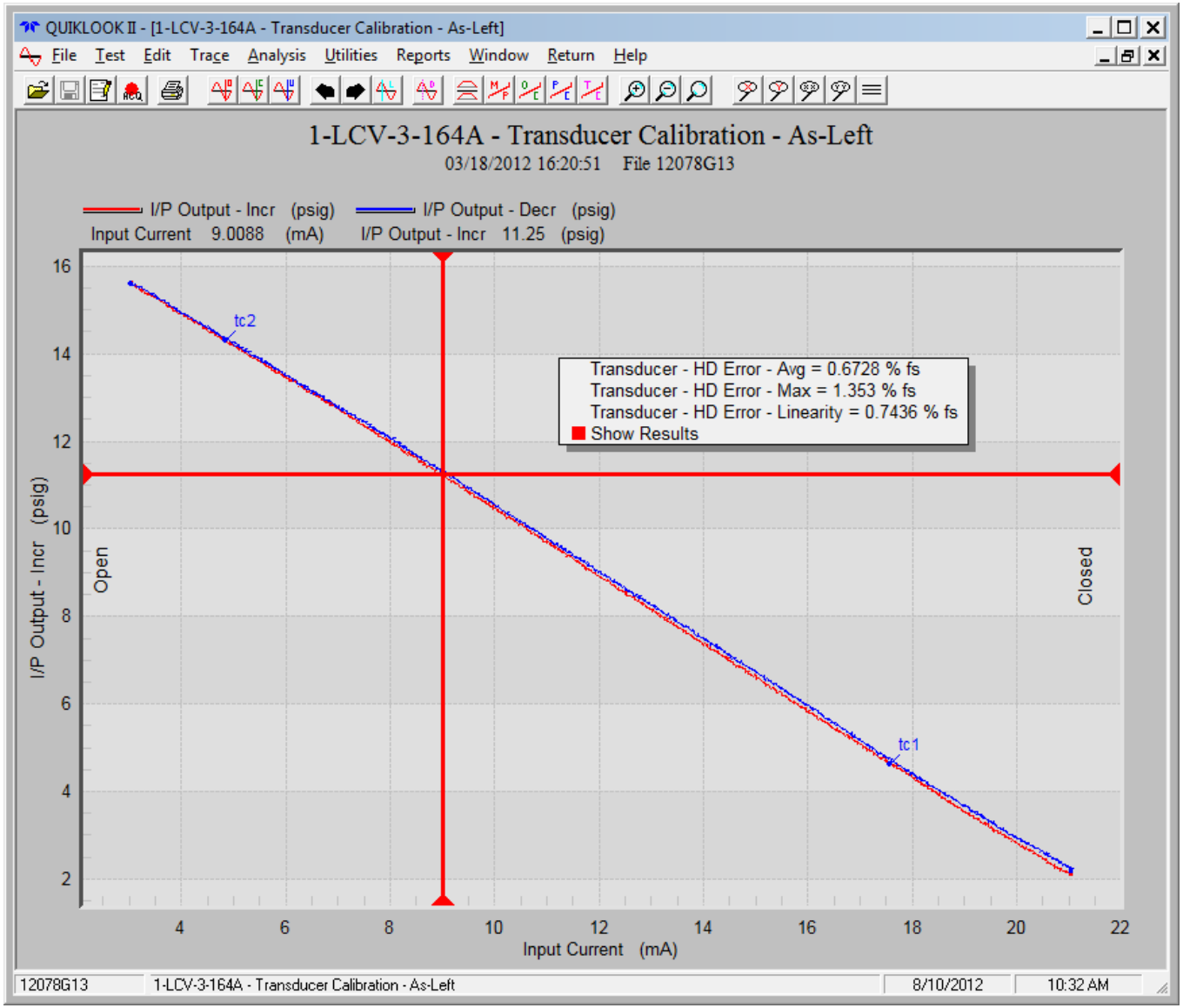


NEW FEATURES 2013

- Configuration / Analysis
  - Add I/P Action



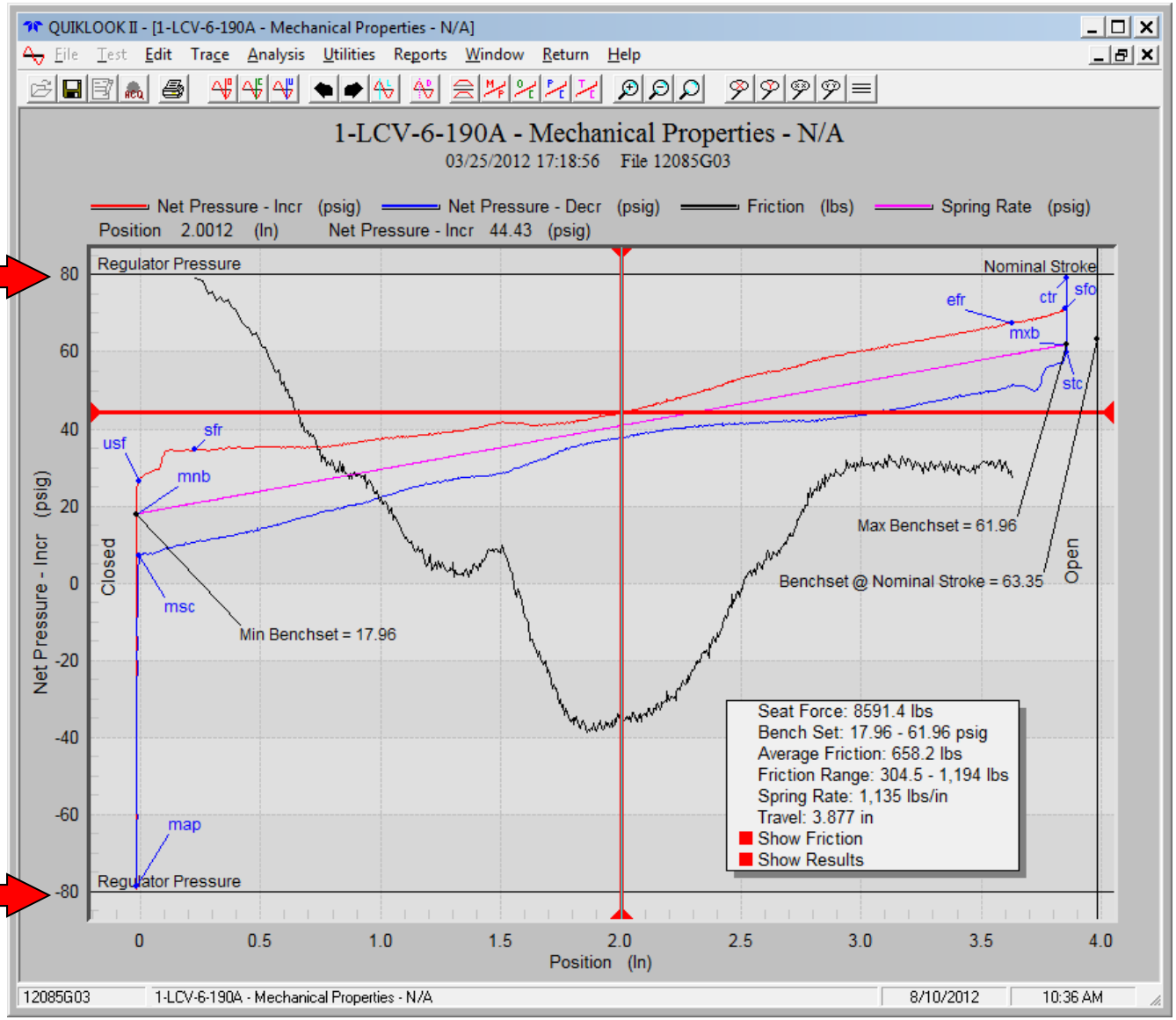
NEW FEATURES 2013



NEW FEATURES 2013

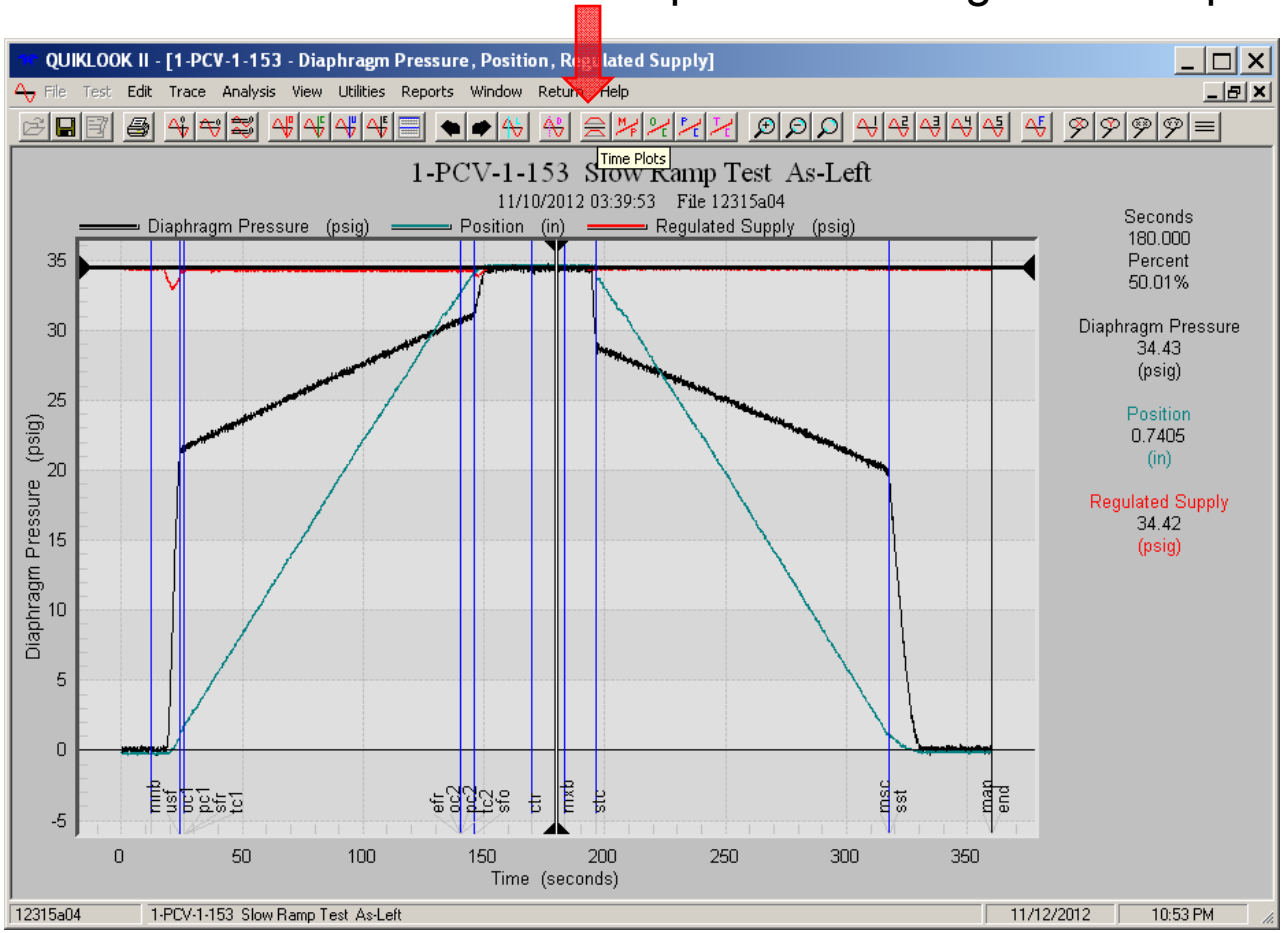
- Analysis
  - Mechanical Properties –
    - Double Acting Valves
    - Add line to show Negative Regulator Pressure

NEW FEATURES 2013



NEW FEATURES 2013

- Analysis
  - Time Plot Icon should return to previous configured time plot



NEW FEATURES 2013

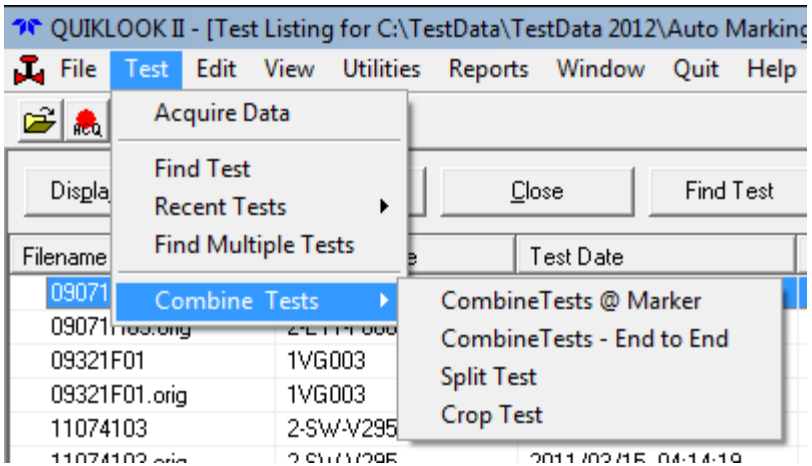
- Acquisition – Monitor Screen
  - Warning if pressure channels are zeroed with a large offset.
  - Disable zero for I/P Input Channel

NEW FEATURES 2013

- Acquisition
  - Eliminated Analog Out spike on startup. Needs new E/I board.
  - Increase capability of E/I board to drive digital positioners.

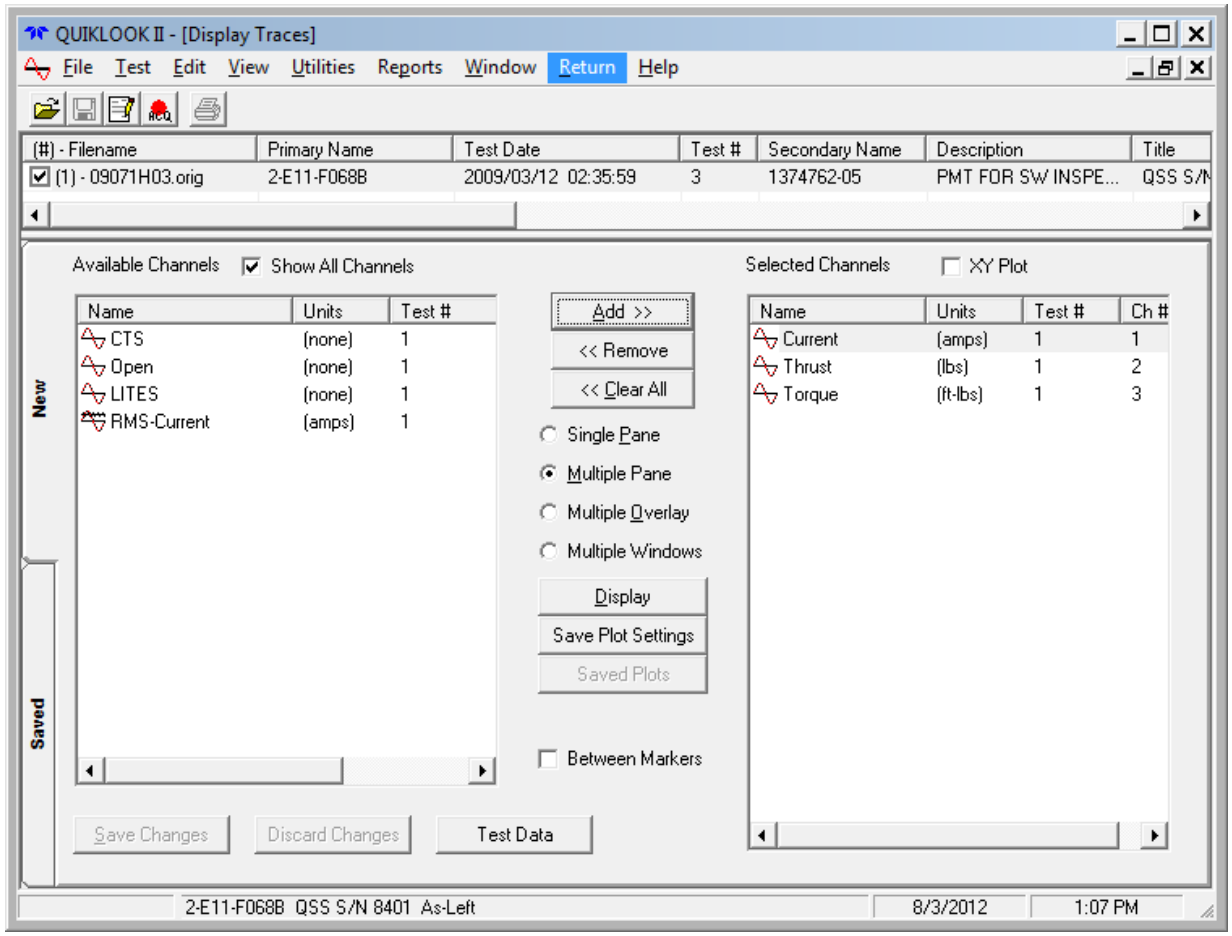
NEW FEATURES 2013

- Test Menu
  - Combine test
    - Combine two tests @ marker
    - Combine two tests end to end
    - Split test into two tests
    - Crop a test saving only data between two markers
    - In each case a new test file will be created leaving the original tests intact.



NEW FEATURES 2013

- Replay
  - Plot between markers



NEW FEATURES 2013

- Analysis
  - Automark MOV traces

Markers

Name	Time (Seconds)	Time (Percent)	Current (Amps)	Thrust (Lbs)	Torque (Ft-Lbs)	CST (mA)	Green (mA)	Red Light (mA)	Open (mA)	SprPack (In)
c0	1.974	9.87%	0.02899	442.7	7.489	0.3590	-0.00007E	-0.02728	0.000190	0.001081
c1	1.986	9.93%	18.86	521.3	5.044	-0.07397	0.000228	-0.03593	0.001259	0.001189
c4	2.185	10.93%	4.623	-521.3	-5.846	-0.2098	-0.00034	-0.02846	-0.000381	-0.001117
c6	2.266	11.33%	3.877	-564.0	-4.700	-0.3105	-0.00022E	0.01854	-0.00095	-0.00115
c5	8.286	41.43%	0.3815	-478.7	-4.738	0.1225	0.1606	-0.05505	0.000839	-0.00118
c11	8.402	42.01%	1.497	-521.3	-4.681	0.07637	0.1187	-0.05817	0.000534	-0.00122
c14	8.863	44.32%	6.657	-9,637	-98.54	-0.2989	-0.2549	-0.01259	-0.00057	-0.01243
c8	8.865	44.33%	6.587	-9,627	-99.27	0.02235	-0.1992	-0.01041	0.00057	-0.01290
c15	8.887	44.44%	-3.117	-9,756	-104.3	0.002480	0.2598	-0.00110E	-0.00003E	-0.01773
t16	8.974	44.87%	-0.03204	-11,332	-115.0	-0.00003E	0.09743	-0.00007E	0.00015	-0.02425
c16	8.985	44.93%	-0.05951	-11,483	-113.0	0.000000	0.1190	-0.00003E	0.00007	-0.02450
c17	10.576	52.88%	0.01373	-11,252	-102.2	-0.00003E	-0.1199	-0.00003E	0.000000	-0.02414
o0	12.168	60.84%	-0.01831	-11,197	-101.4	0.2536	0.1944	-0.00007E	0.01888	-0.02425
o1	12.189	60.95%	-30.70	-11,130	-38.97	0.3097	0.1296	-0.00026	0.01011	-0.02414
o11	12.283	61.42%	2.887	-8,182	-13.70	0.02987	0.1018	-0.00011	0.00640	-0.02378
o9	12.854	64.27%	-5.038	5,394	55.67	0.4104	0.2642	-0.00080	0.01083	0.001729
o13	12.997	64.99%	4.932	614.8	9.285	-0.2872	-0.1403	-0.02495	-0.01553	0.001117
o12	15.909	79.55%	1.718	516.4	8.406	-0.2972	-0.2522	0.04261	-0.1767	0.001081
o14	18.801	94.01%	-3.896	565.6	9.189	0.4096	0.2633	-0.01225	0.3922	0.001189
o15	18.891	94.46%	1.711	573.8	8.444	-0.3122	-0.2734	0.03708	-0.09068	0.001297
o17	18.901	94.51%	-3.976	613.2	9.094	-0.01431	0.01228	-0.01163	0.002022	0.001081
end	19.999	100.00%	0.003052	477.1	7.011	-0.00007E	0.000000	-0.04131	0.000000	0.001153

Close

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QUIKLOOK II SOFTWARE

MOV AUTO MARKING DEMONSTRATION

NEW FEATURES 2013

Thank you

USER FEEDBACK?