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LIGO Production Large Actuator Test Report

Actuator Serial #: L193

Operator Name: Gordon, Matt

Date: 1/30/2012 Time: 10:40 AM

Actuator Coil Resistance: 6.49 Ohms, PASS

Ambient Temperature: 73.8 F

Hi Pot Test Results: 1000 MOhms, PASS

X Travel Limit (inches): 0.527

Y Travel Limit (inches): 0.205

Z Travel Limit (inches): 0.500

	X Position (in)	Y Position (in)	Z Position (in)	Current (A)	Force (lbs)	Force Constant (lbs/A)	PASS/FAIL
Center	0.000	0.000	0.000	2.037	20.015	9.827	PASS
Position 1	0.250	0.080	0.217	2.278	20.011	8.785	PASS
Position 2	0.250	-0.080	0.217	2.277	20.035	8.798	PASS
Position 3	-0.250	-0.080	0.217	2.355	20.096	8.532	PASS
Position 4	-0.250	0.080	0.217	2.295	19.989	8.708	PASS
Position 5	-0.250	0.080	-0.217	2.274	20.052	8.819	PASS
Position 6	-0.250	-0.080	-0.217	2.249	19.974	8.883	PASS
Position 7	0.250	-0.080	-0.217	2.279	20.159	8.846	PASS
Position 8	0.250	0.080	-0.217	2.256	20.044	8.887	PASS
Center	0.000	0.000	-0.000	-2.064	-20.182	9.779	PASS
Position 1	0.250	0.080	0.217	-2.257	-20.017	8.867	PASS
Position 2	0.250	-0.080	0.217	-2.270	-20.065	8.838	PASS
Position 3	-0.250	-0.080	0.217	-2.248	-20.048	8.917	PASS
Position 4	-0.250	0.080	0.217	-2.274	-19.998	8.795	PASS
Position 5	-0.250	0.080	-0.217	-2.329	-20.098	8.631	PASS
Position 6	-0.250	-0.080	-0.217	-2.314	-20.007	8.645	PASS
Position 7	0.250	-0.080	-0.217	-2.332	-20.025	8.587	PASS
Position 8	0.250	0.080	-0.217	-2.348	-20.235	8.620	PASS

QNA-TSG

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LIGO Production Large Actuator Test Report

Actuator Serial #: L194

Operator Name: Gordon, Matt

Date: 1/30/2012 Time: 10:21 AM

Actuator Coil Resistance: 6.52 Ohms, PASS

Ambient Temperature: 76.7 F

Hi Pot Test Results: 1000 MOhms, PASS

X Travel Limit (inches): 0.525

Y Travel Limit (inches): 0.205

Z Travel Limit (inches): 0.503

	X Position (in)	Y Position (in)	Z Position (in)	Current (A)	Force (lbs)	Force Constant (lbs/A)	PASS/FAIL
Center	0.000	0.000	0.000	1.981	20.128	10.162	PASS
Position 1	0.250	0.080	0.217	2.192	20.123	9.179	PASS
Position 2	0.250	-0.080	0.217	2.254	19.983	8.864	PASS
Position 3	-0.250	-0.080	0.217	2.323	20.096	8.650	PASS
Position 4	-0.250	0.080	0.217	2.222	20.043	9.020	PASS
Position 5	-0.250	0.080	-0.217	2.275	20.070	8.823	PASS
Position 6	-0.250	-0.080	-0.217	2.290	20.151	8.800	PASS
Position 7	0.250	-0.080	-0.217	2.258	19.932	8.828	PASS
Position 8	0.250	0.080	-0.217	2.267	20.048	8.844	PASS
Center	0.000	0.000	0.000	-2.096	-20.063	9.572	PASS
Position 1	0.250	0.080	0.217	-2.286	-20.045	8.769	PASS
Position 2	0.250	-0.080	0.217	-2.301	-20.159	8.761	PASS
Position 3	-0.250	-0.080	0.217	-2.273	-20.011	8.802	PASS
Position 4	-0.250	0.080	0.217	-2.303	-20.012	8.689	PASS
Position 5	-0.250	0.080	-0.217	-2.392	-20.076	8.393	PASS
Position 6	-0.250	-0.080	-0.217	-2.456	-20.150	8.206	PASS
Position 7	0.250	-0.080	-0.217	-2.455	-19.988	8.141	PASS
Position 8	0.250	0.080	-0.217	-2.393	-20.018	8.366	PASS

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LIGO Production Large Actuator Test Report

Actuator Serial #: L195

Operator Name: Gordon, Matt

Date: 1/30/2012 Time: 2:17 PM

Actuator Coil Resistance: 6.47 Ohms, PASS

Ambient Temperature: 76.3 F

Hi Pot Test Results: 1000 MOhms, PASS

X Travel Limit (inches): 0.533

Y Travel Limit (inches): 0.206

Z Travel Limit (inches): 0.504

	X Position (in)	Y Position (in)	Z Position (in)	Current (A)	Force (lbs)	Force Constant (lbs/A)	PASS/FAIL
Center	0.000	0.000	0.000	2.037	20.018	9.829	PASS
Position 1	0.250	0.080	0.217	2.276	20.065	8.817	PASS
Position 2	0.250	-0.080	0.217	2.317	20.041	8.651	PASS
Position 3	-0.250	-0.080	0.217	2.343	20.098	8.578	PASS
Position 4	-0.250	0.080	0.217	2.288	20.081	8.778	PASS
Position 5	-0.250	0.080	-0.217	2.303	19.979	8.675	PASS
Position 6	-0.250	-0.080	-0.217	2.291	20.019	8.738	PASS
Position 7	0.250	-0.080	-0.217	2.320	20.032	8.636	PASS
Position 8	0.250	0.080	-0.217	2.296	19.971	8.699	PASS
Center	0.000	0.000	0.000	-2.094	-20.150	9.625	PASS
Position 1	0.250	0.080	0.217	-2.274	-20.088	8.835	PASS
Position 2	0.250	-0.080	0.217	-2.251	-20.048	8.907	PASS
Position 3	-0.250	-0.080	0.217	-2.252	-19.991	8.877	PASS
Position 4	-0.250	0.080	0.217	-2.269	-20.049	8.836	PASS
Position 5	-0.250	0.080	-0.217	-2.344	-20.022	8.542	PASS
Position 6	-0.250	-0.080	-0.217	-2.335	-20.095	8.608	PASS
Position 7	0.250	-0.080	-0.217	-2.342	-20.128	8.596	PASS
Position 8	0.250	0.080	-0.217	-2.351	-20.031	8.520	PASS

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LIGO Production Large Actuator Test Report

Actuator Serial #: L196

Operator Name: Gordon, Matt

Date: 1/30/2012 Time: 11:17 AM

Actuator Coil Resistance: 6.55 Ohms, PASS

Ambient Temperature: 73.6 F

Hi Pot Test Results: 1000 MOhms, PASS

X Travel Limit (inches): 0.534

Y Travel Limit (inches): 0.206

Z Travel Limit (inches): 0.506

	X Position (in)	Y Position (in)	Z Position (in)	Current (A)	Force (lbs)	Force Constant (lbs/A)	PASS/FAIL
Center	0.000	0.000	0.000	2.099	19.989	9.522	PASS
Position 1	0.250	0.080	0.217	2.369	20.017	8.450	PASS
Position 2	0.250	-0.080	0.217	2.313	20.099	8.691	PASS
Position 3	-0.250	-0.080	0.217	2.354	19.987	8.490	PASS
Position 4	-0.250	0.080	0.217	2.372	20.126	8.483	PASS
Position 5	-0.250	0.080	-0.217	2.308	19.982	8.657	PASS
Position 6	-0.250	-0.080	-0.217	2.275	19.987	8.785	PASS
Position 7	0.250	-0.080	-0.217	2.344	20.138	8.592	PASS
Position 8	0.250	0.080	-0.217	2.283	19.971	8.749	PASS
Center	0.000	0.000	0.000	-2.060	-20.142	9.777	PASS
Position 1	0.250	0.080	0.217	-2.292	-20.107	8.774	PASS
Position 2	0.250	-0.080	0.217	-2.282	-20.154	8.830	PASS
Position 3	-0.250	-0.080	0.217	-2.285	-20.106	8.799	PASS
Position 4	-0.250	0.080	0.217	-2.271	-20.117	8.860	PASS
Position 5	-0.250	0.080	-0.217	-2.308	-20.007	8.669	PASS
Position 6	-0.250	-0.080	-0.217	-2.302	-20.142	8.749	PASS
Position 7	0.250	-0.080	-0.217	-2.362	-20.039	8.483	PASS
Position 8	0.250	0.080	-0.217	-2.341	-20.038	8.558	PASS

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LIGO Production Large Actuator Test Report

Actuator Serial #: L197

Operator Name: Gordon, Matt

Date: 1/30/2012 Time: 11:42 AM

Actuator Coil Resistance: 6.41 Ohms, PASS

Ambient Temperature: 73.8 F

Hi Pot Test Results: 1000 MOhms, PASS

X Travel Limit (inches): 0.525

Y Travel Limit (inches): 0.205

Z Travel Limit (inches): 0.501

	X Position (in)	Y Position (in)	Z Position (in)	Current (A)	Force (lbs)	Force Constant (lbs/A)	PASS/FAIL
Center	0.000	0.000	0.000	2.058	20.085	9.757	PASS
Position 1	0.250	0.080	0.217	2.271	20.052	8.829	PASS
Position 2	0.250	-0.080	0.217	2.248	19.998	8.897	PASS
Position 3	-0.250	-0.080	0.217	2.345	20.103	8.574	PASS
Position 4	-0.250	0.080	0.217	2.259	20.021	8.864	PASS
Position 5	-0.250	0.080	-0.217	2.302	20.005	8.692	PASS
Position 6	-0.250	-0.080	-0.217	2.238	20.014	8.944	PASS
Position 7	0.250	-0.080	-0.217	2.302	19.989	8.684	PASS
Position 8	0.250	0.080	-0.217	2.274	20.161	8.867	PASS
Center	0.000	0.000	0.000	-2.069	-20.037	9.684	PASS
Position 1	0.250	0.080	0.217	-2.281	-20.078	8.802	PASS
Position 2	0.250	-0.080	0.217	-2.288	-20.131	8.798	PASS
Position 3	-0.250	-0.080	0.217	-2.275	-20.057	8.817	PASS
Position 4	-0.250	0.080	0.217	-2.292	-20.058	8.750	PASS
Position 5	-0.250	0.080	-0.217	-2.339	-20.012	8.556	PASS
Position 6	-0.250	-0.080	-0.217	-2.430	-19.951	8.212	PASS
Position 7	0.250	-0.080	-0.217	-2.317	-20.100	8.673	PASS
Position 8	0.250	0.080	-0.217	-2.357	-20.094	8.525	PASS

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LIGO Production Large Actuator Test Report

Actuator Serial #: L198

Operator Name: Gordon, Matt

Date: 1/30/2012 Time: 1:49 PM

Actuator Coil Resistance: 6.44 Ohms, PASS

Ambient Temperature: 76.1 F

Hi Pot Test Results: 1000 MOhms, PASS

X Travel Limit (inches): 0.529

Y Travel Limit (inches): 0.206

Z Travel Limit (inches): 0.501

	X Position (in)	Y Position (in)	Z Position (in)	Current (A)	Force (lbs)	Force Constant (lbs/A)	PASS/FAIL
Center	0.000	0.000	0.000	2.101	20.095	9.566	PASS
Position 1	0.250	0.080	0.217	2.285	20.066	8.781	PASS
Position 2	0.250	-0.080	0.217	2.293	20.101	8.765	PASS
Position 3	-0.250	-0.080	0.217	2.279	19.981	8.766	PASS
Position 4	-0.250	0.080	0.217	2.303	20.039	8.701	PASS
Position 5	-0.250	0.080	-0.217	2.274	20.122	8.849	PASS
Position 6	-0.250	-0.080	-0.217	2.305	20.096	8.718	PASS
Position 7	0.250	-0.080	-0.217	2.311	20.064	8.682	PASS
Position 8	0.250	0.080	-0.217	2.325	20.117	8.652	PASS
Center	0.000	0.000	0.000	-2.108	-20.002	9.489	PASS
Position 1	0.250	0.080	0.217	-2.324	-20.179	8.681	PASS
Position 2	0.250	-0.080	0.217	-2.300	-20.023	8.707	PASS
Position 3	-0.250	-0.080	0.217	-2.291	-20.037	8.746	PASS
Position 4	-0.250	0.080	0.217	-2.294	-19.974	8.707	PASS
Position 5	-0.250	0.080	-0.217	-2.352	-19.998	8.502	PASS
Position 6	-0.250	-0.080	-0.217	-2.392	-20.112	8.408	PASS
Position 7	0.250	-0.080	-0.217	-2.336	-20.006	8.565	PASS
Position 8	0.250	0.080	-0.217	-2.399	-20.055	8.360	PASS

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