

NAR OFFICIAL CERTIFICATION LABORATORY

HIGH POWER ROCKET ENGINE TESTING REPORT

Manufacturer and Type: AMW M2200

Effective Dates: NAR Certification: 4/1/04

Certified Total Impulse (N-Sec): 6350

Delay Times: Plugged

Propellant Type: Skidmark

Propellant Mass (GM): 3766

Casing Diameter (MM): 75

Casing Length (MM): 1039

----- STATIC TEST DATA -----

Number Tested: 2

Casing Date Codes: None

Date Tested: 3/27/04

Test Temp (°c): 17

Elevation (FT): 200

Total Impulse (N-Sec): 6275.33

std. deviation: 65.67

Peak Thrust (Newtons): 2979.38

std. deviation: 381.17

Burn Time (Seconds): 3.11

std. deviation: 0.36

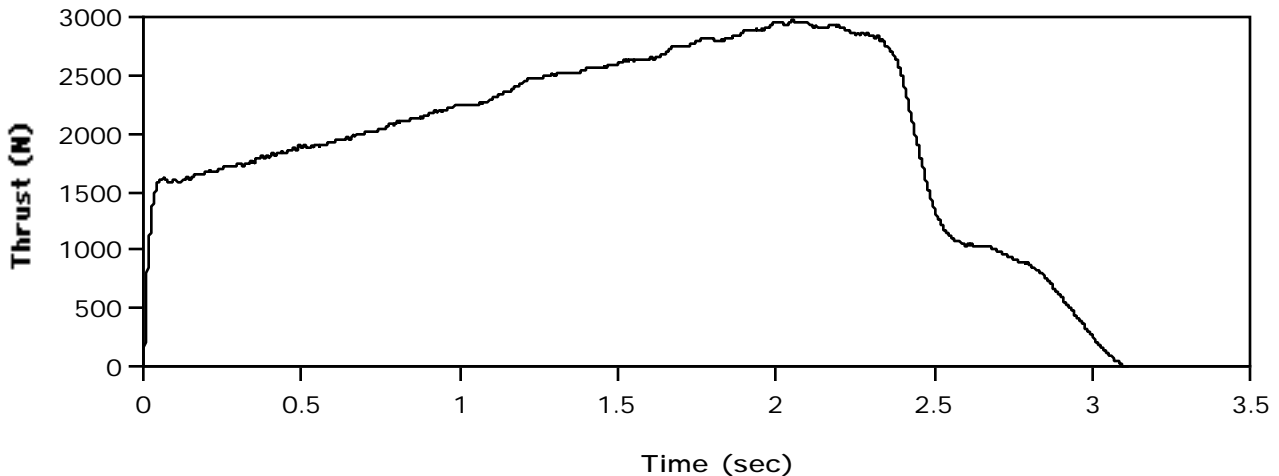
Casing Burnt Mass (GM): 3032.8

Max Casing External Temp (°c): under 200

Delay Time (sec)	Plugged
Initial Mass (gm)	7009.8
Avg. Measured Delay	None

Remarks:

Uses the 75-7600 motor case and produces about 10 to 15 sec of smoke



John Scane
NAR S&T Committee Chairman

; AMW M2200SK RASP.ENG file made from NAR published data
 ; File produced April 19, 2004
 ; The total impulse, peak thrust, average thrust and burn time are
 ; the same as the averaged static test data on the NAR web site in
 ; the certification file. The curve drawn with these data points is as
 ; close to the certification curve as can be with such a limited
 ; number of points (32) allowed with wRASP up to v1.6.

M2200SK 75 1039 P 3.766 7.0098 AMW

0.020	972.329
0.049	1612.840
0.101	1601.779
0.243	1701.325
0.482	1878.295
0.571	1889.356
0.802	2088.447
0.997	2254.356
1.073	2254.356
1.227	2486.629
1.426	2574.109
1.616	2651.533
1.681	2751.079
1.782	2839.564
1.831	2817.443
1.961	2916.988
2.070	2979.380
2.155	2939.110
2.196	2961.231
2.256	2872.746
2.321	2839.564
2.374	2684.715
2.422	2331.781
2.483	1568.597
2.524	1215.663
2.584	1093.996
2.674	1060.814
2.747	961.268
2.868	740.358
2.953	464.043
3.046	165.708
3.110	0.000

