



Tripoli Motor Testing Division  
223 NC Highway 54 West  
Chapel Hill, NC 27514  
(919) 357 5681 (c)

April 17, 2024

Gary Rosenfield  
RCS Rocket Motor Components, Inc.  
2113 West 850 North Street  
Cedar City, UT 84721

Dear Mr. Rosenfield,

The Aerotech M2700W reload kit was tested on March 30, 2024 and complies with NFPA 1125. The motor is certified for hobby rocketry use by the members of the Tripoli Rocketry Association and all approving organizations with reciprocal certifying agreements.

Motor Manufacturer	RCS Rocket Motor Components, Inc.
Manufacturer's Designation	M2700W-PS [for the 75/10240 hardware]
Propellant	White Lightning
TMT Nomenclature	10,322 N2717

Diameter	2.968"	75.39 mm
Overall Length	48.522"	1232.5 mm
Outside the MMT	1.60"	40.69 mm

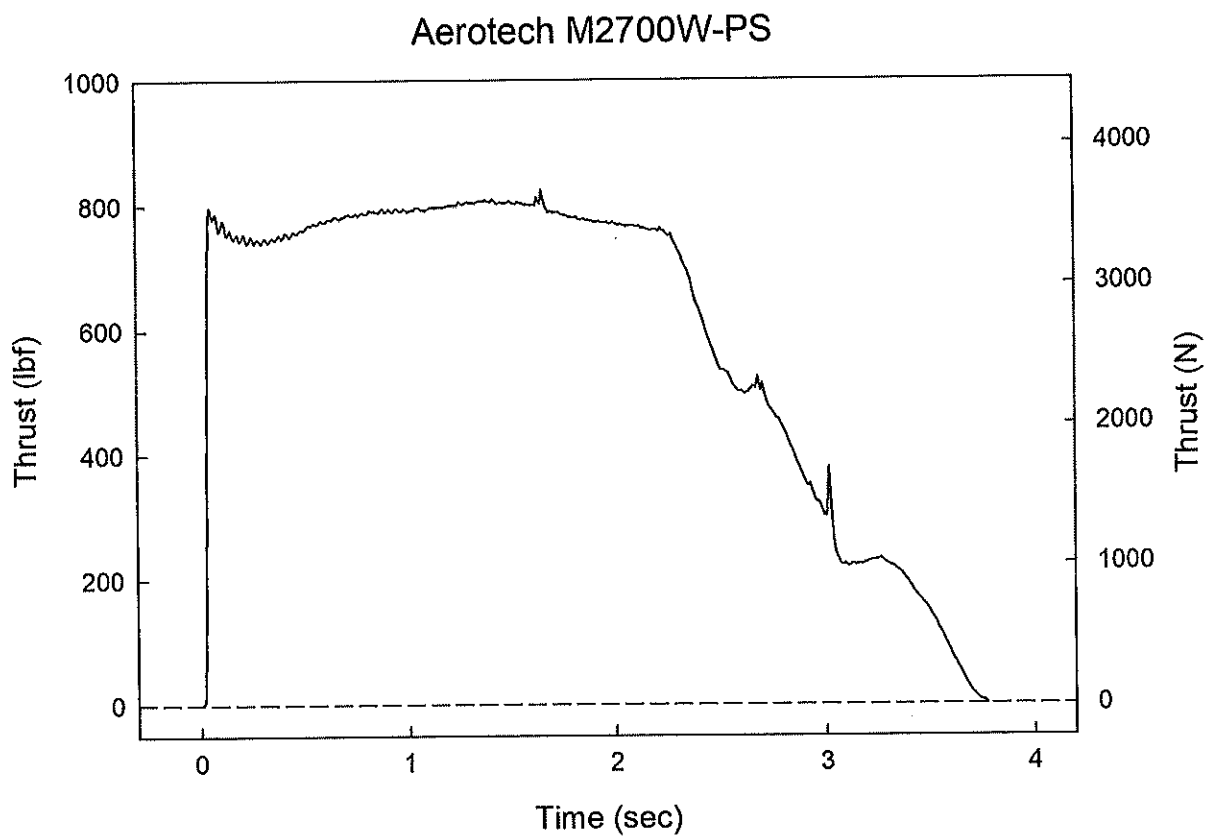
Loaded Mass	19.97 lb	9058.2 g
Propellant Mass	11.629 lb*	5275 g*
Burnout Mass	7.58 lb	3438.2 g

\* = data provided by manufacturer

Burn time	3.962, 3.635 sec [avg = 3.799 sec]
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Total Impulse	2399.4, 2241.3 lbf.s [2320.4 lbf.s]	10,637, 9969.7 N.s [10,322 N.s]
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Max Impulse	1248.5, 830.82 lbf [1039.7 lbf]	5553.5, 3695.7 N [4624.6 N]
Average Impulse	605.31, 616.25 lbf [610.8 lbf]	2692.6, 2741.2 N [2716.9 N]
Number of Motors Tested	2	
Delay Time Data	<i>Nominal</i> n.a.	<i>Measured</i> n.a.
Casing Temp. [NFPA 1125 7.4.1]		Passed



Sincerely,

Alan C. Whitmore  
Chair, Tripoli Motor Testing