



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 L2775ST-PS 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	L2775ST-PS [for the 75/3840 hardware]
Propellant	Super Thunder
TMT Nomenclature	3150 L2774

Diameter	2.966"	75.34 mm
Overall Length	21.977"	558.2 mm
Outside the MMT	1.60"	40.69 mm

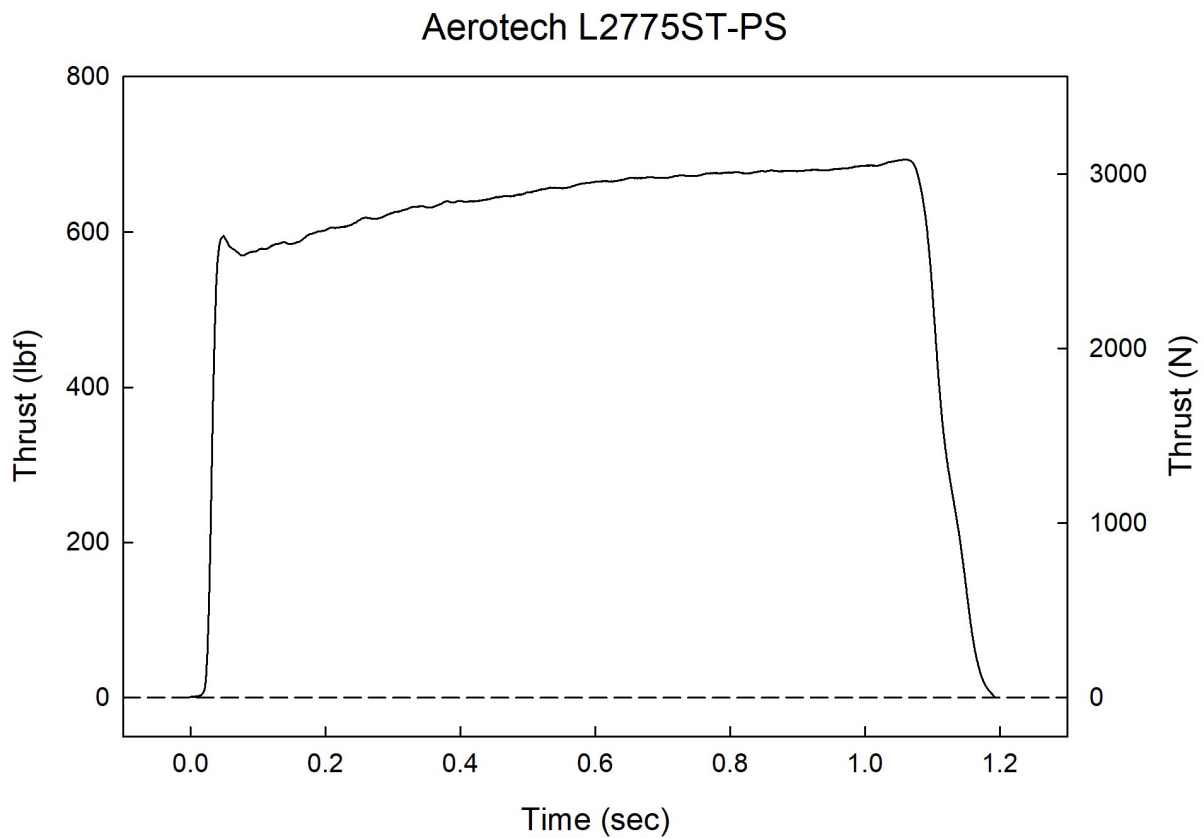
Loaded Mass	7.67 lb	3479.1 g
Propellant Mass	3.126 lb*	1418 g*
Burnout Mass	4.30 lb	1950.5 g

* = data provided by manufacturer

Burn time	1.135 ± 0.017 sec
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Total Impulse	708.13 ± 1.36 lbf.s	3149.9 ± 6.1 N.s
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Max Impulse	695.90 ± 16.75 lbf	3095.6 ± 74.5 N
Average Impulse	622.91 ± 10.78 lbf	2773.5 ± 45.7 N
Number of Motors Tested	3	
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