

NAR OFFICIAL CERTIFICATION LABORATORY

MODEL ROCKET ENGINE TESTING REPORT

Manufacturer and Type: AEROTECH F20 - Econojet

Effective Dates: NAR Certification: 11/10/96 Contest Use: 3/10/97

Certified Total Impulse (N-Sec): 64 Delay Times: 4, 7

Propellant Type: Composite Propellant Mass (GM): 30

Casing Diameter (MM): 29 Casing Length (MM): 73

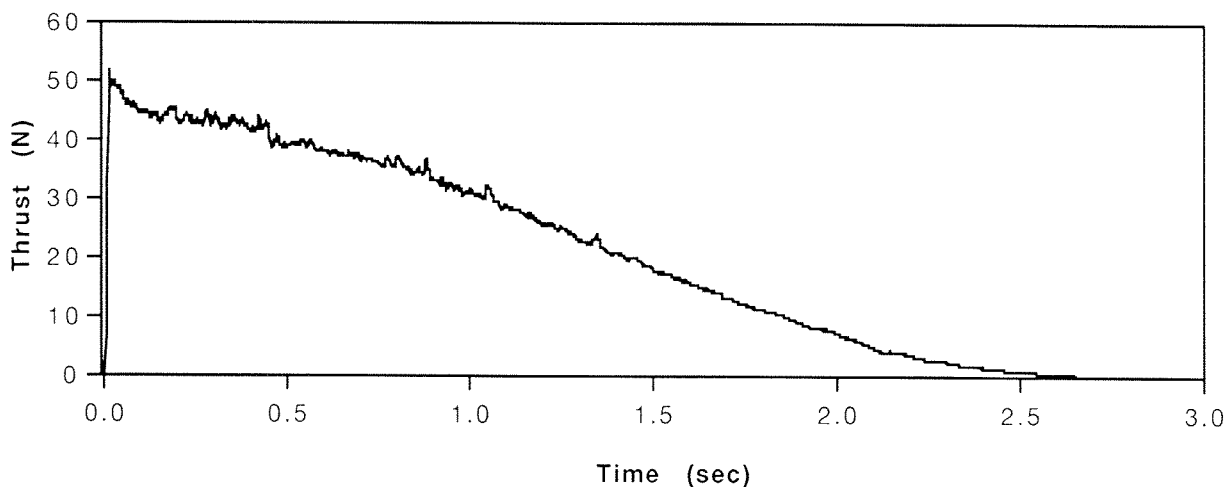
----- STATIC TEST DATA -----

Number Tested: 10 Casing Date Codes: 603E9
Date Tested: 11/9/96 Test Temp (°c): 21 Elevation (FT): 200
Total Impulse (N-Sec): 60.45 std. deviation: 0.77
Peak Thrust (Newtons): 52.08 std. deviation: 2.99
Burn Time (Seconds): 2.68 std. deviation: 0.21
Casing Burnt Mass (GM): 30.3 Max Casing External Temp (°c): under 200

Delay Time (sec)	4	7
Initial Mass (gm)	74.3	74.9
Avg. Measured Delay	4.09	6.93

Remarks:

Typical Thrust - Time Curve:



Committee Chairman