

Tripoli Rocketry Association

Class 3 Project Submittal

(Applies to any single stage or multistage project with combined 40,960 ns or more propulsion)

Launch Event: LDRS ____ BALLS ____ Other _____

Launch Site: _____ Lat/Long: _____ Launch Date(s): _____

COMPLETED FORM MUST BE SUBMITTED TO KENT.NEWMAN@COMCAST.NET NO LATER THAN 90 DAYS BEFORE THE LAUNCH DATE

Flier Data:

Names, addresses and email (list primary contact first)	TRA No.	Cert Lvl

Rocket Geometry:

Rocket Name	Length	Diameter
Weight (dry/wet)	Fin location (from tip of nose)	Fin angle (if any)
Briefly describe project (using component detail - airframe, fins, nose, payload, etc.) regarding specific materials, method of construction, fin attachment method, etc. Generally, the larger or more complex the project, the more detail is required. Photos and/or drawings are expected. Use additional paper as required.		

Propulsion:

	Qty	Manufacturer (Ex.- Research – J. Smith Commercial – AT, etc.)	Propellant Type (solid, hybrid)	Burn Time	Designation	Propellant Weight	Total Impulse
Main							
Add'l							
Airstarts							
2 nd Stage							
3 rd Stage							
Total							

Motor Description

Design (Bates, C-slot, etc.)	No of Grains	Core Diameter
KN Range	Pressure Range	Propel. Length
Volume Loading	Propellant Mass	Delivered ISP
Multi-modal	% Solids	% Metals
Initial Thrust (lbs)	Thrust/Wt. Ratio	

Payload/Recovery:

Payload Description	
Drogue (Manu/type/size)	
Main (Manu/type/size)	
Deployment Method	
Electronics (Brands & Models including tracking devices)	

Launcher/Controller:

Description (Rail, tower, etc.- length; material; ground fixed or balloon, etc./ Wire controller, wireless, etc.):

Safety:

Safety codes/procedures followed:

Aerodynamic Data (please indicate if Submitter provided or Committee requested to provide):

Ca vs Angle of Attack (AOA):	Attached	___	FAA Class 3 Committee	___
CNa vs AOA	Attached	___	FAA Class 3 Committee	___
CP vs AOA	Attached	___	FAA Class 3 Committee	___
Mass vs Time until Burnout (BU):	Attached	___	FAA Class 3 Committee	___
Cg Location vs Time until BU:	Attached	___	FAA Class 3 Committee	___
6 DOF Dispersion Analysis	Attached	___	FAA Class 3 Committee	___

Supporting Data (to be provided to Committee):

RASAero project file (.alx1)	___	RockSim File (.rkt)	___
Rasp engine file (.eng)	___	RockSim Pro File (.rkt)	___