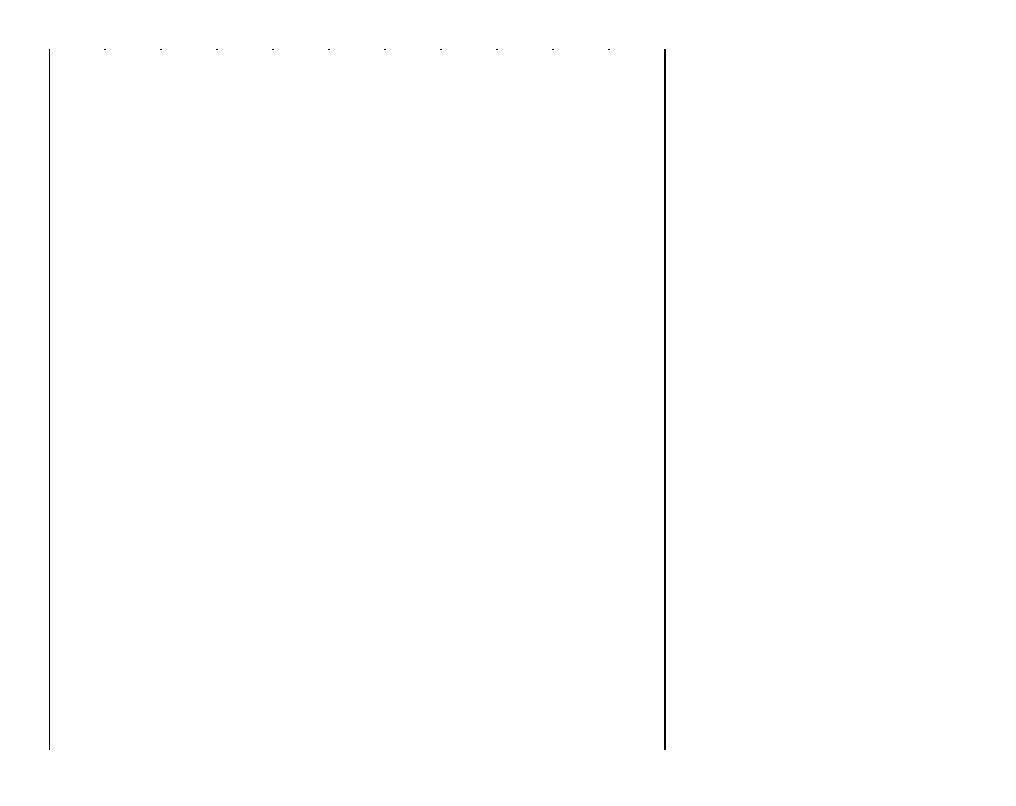
		Milestone R	eview Flysheet					
nstitution	titution AIAA OC Section			е	CDR			
Vehi	icle Proper	ties	Motor Properties					
Total Length (in)		101.5	Motor Designation	(Cesaroni K555			
Diameter (in)		4	Max/Average Thrust (lb	ax/Average Thrust (lb)		125.1		
Gross Lift Off Weigh (lb)		21.6	Total Impulse (lbf-s)	Total Impulse (lbf-s)		539.7		
Airframe Material	G	610 Fiberglass	Mass Before/After Burn	22	2.1 lbs/18.32 l	bs		
Fin Material	G	610 Fiberglass	Liftoff Thrust (lb)		130			
Coupler Length		8"	Motor Retention	AeroPack 7	AeroPack 75 mm Fiberglass Retainer			
Sta	bility Analy	/sis	A	scent Analy	/sis			
Center of Pressure (in fr	rom nose)	72.8941	Maximum Veloxi	ty (ft/s)	661.14	ft/s		
Center of Gravity (in fro	om nose)	63.9729	Maximum Mach	Maximum Mach Number		Mach		
Static Stability Margin		2.22	Maximum Accelerat	Maximum Acceleration (ft/s^2)		ft/s^2		
Static Stability Margin (off launch rail)		3.55882	Target Apogee (From	Target Apogee (From Simulations)		ft		
Thrust-to-Weight Ratio		6:1	Stable Velocity	Stable Velocity (ft/s)		ft/s		
Rail Size and Length (in)		96	Distance to Stable V	Distance to Stable Velocity (ft)		ft		
Rail Exit Velocit	ty	48.28						
Recovery	System Pr	operties	Recove	ry System P	roperties			
	gue Parach			Main Parachute				
Manufacturer/Model		tes/Iris Ultra Standard	Manufacturer/Model	Fruity Ch	ruity Chutes/Iris Ultra Standard			
Size		18"	Size		84"			
Altitude at Deployme	ent (ft)	Apogee	Altitude at Deploy	ment (ft)	<u> </u>			
Velocity at Deployme	nt (ft/s)	0	Velocity at Deployn	nent (ft/s)	ent (ft/s) 90			
Terminal Velocity (ft/s)		87.86	Terminal Velocit	y (ft/s)	14.87			
Recovery Harness M	aterial	Tubular Nylon	Recovery Harness	Material	Tubrular Nylon			
Harness Size/Thickness (in)		1	Harness Size/Thick	ness (in)	1			
Recovery Harness Ler	ngth (ft)	21	Recovery Harness L	Length (ft) 21		1		
Harness/Airframe Interfaces		closed eyebolt, U Bolt, washer, nut	Harness/Airframe Interfaces					

Kinetic	Section 1	Section 2	Section 3	Section 4		Kinetic	Section 1	Section 2	Section 3	Section 4	
Energy of Each Section (Ft-	338.95	731.07	1322.57	3000014		Energy of Each Section (Ft-	10.51	22.66	41	Section 4	
lbs)						lbs)					
Recovery Electonics							Reco	very Elect	onics		
	Stratologger CF Flight (Make/Model) Stratologger CF Flight Computer/RRC3 Flight Computer				Rocket L (Make/		Whistle GPS				
Redundancy Plan		secondary flight computers, both different				Transmitting Frequencies		None			
		mode	s; indeper batteries	ndent		Black Powder Mass Drogue Chute (grams)		3.8			
	y Time (Launch figuration)										
Milestone Review Flysheet											
nstitution	tion						Milestone				
		Auto	nomous G	round Sup	port Equip	oment (MA	V Teams C	Only)			
					Ove	rview					
Capture Mechanis m											
					Ove	rview					
Container Mechanis m	Overview										
Launch Rail					Ove	rview					
Mechanis m		***Include Description of rail locking mechanism***									
lanitor					Ove	rview					
Igniter Installation Mechanis											

111		-	-	-	-	=	-	-	-	
Payload										
Overview										
Payload 1										
					Over	rview				
Payload 2										
				Test Plans	s, Status, a	nd Results				
Ejection										
Charge Tests										
Sub-scale										
Test Flights										
- " .										
Full-scale Test Flights										
			M	ilestone	e Reviev	w Flyshe	eet			
nstitution							Milestone			
Additional Comments										



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