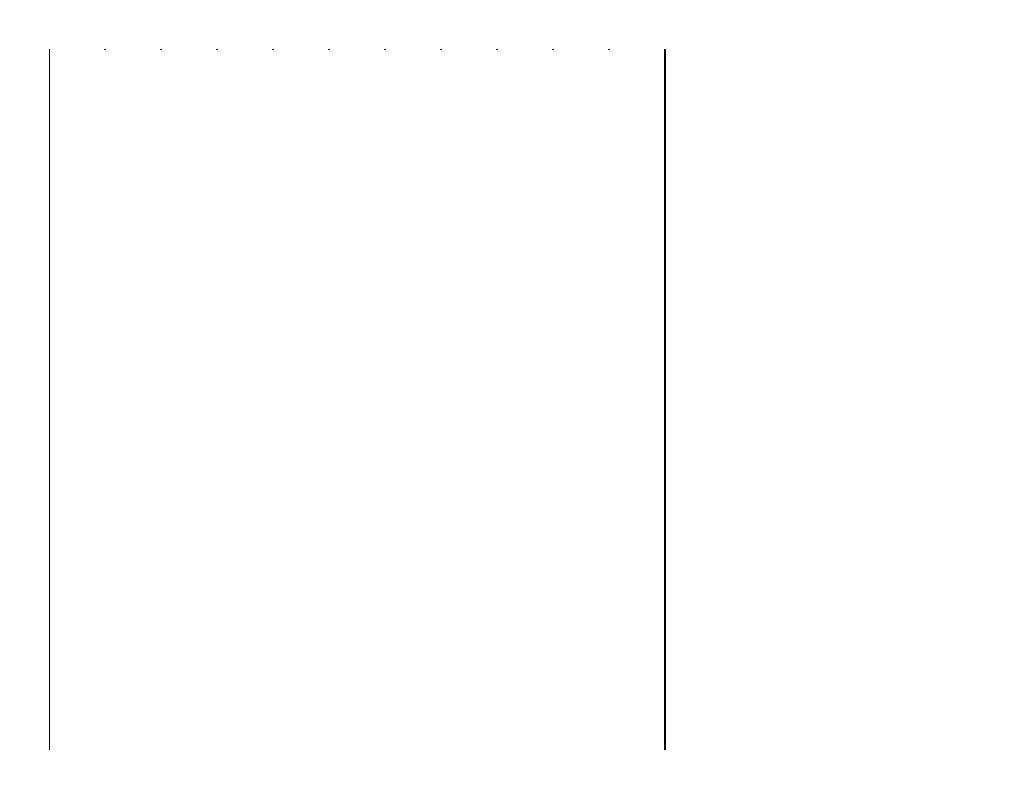
		Milestone Re	eview Flysheet						
nstitution	AIA	A OC Section	Milestone	Milestone FRR					
Veh	icle Proper	ties	Motor Properties						
Total Length (in)		101.5	Motor Designation	Cesaroni K555					
Diameter (in)		4	Max/Average Thrust (lb)	125.1					
Gross Lift Off Weigh (lb)		21.6	Total Impulse (lbf-s)		539.7				
Airframe Material	(610 Fiberglass	Mass Before/After Burn	25.01	25 lbs/21.736	55 lbs			
Fin Material	C	610 Fiberglass	Liftoff Thrust (lb)		130				
Coupler Length		8"	Motor Retention	AeroPack 75	5 mm Fibergla	ass Retainer			
Sta	bility Analy	ysis	As	cent Analy	sis				
Center of Pressure (in from nose)		72.8491	Maximum Veloxity	(ft/s)	567	ft/s			
Center of Gravity (in from nose)		66.4569	Maximum Mach Nu	umber	0.51				
Static Stability Margin		1.6	Maximum Acceleratio	n (ft/s^2)	156.464	ft/s^2			
Static Stability Margin (off launch rail)		2.85	Target Apogee (From Si	mulations)	5400	ft			
Thrust-to-Weight Ratio		6:1	Stable Velocity (f	t/s)	567	ft/s^2			
Rail Size and Length (in)		12"	Distance to Stable Vel	ocity (ft)	1267	ft			
Rail Exit Velocity		57 ft/s							
Recovery	System Pr	operties	Recovery	System Pr	operties				
-	gue Parach			Main Parachute					
Manufacturer/Model	i e	Fruity Chutes	Manufacturer/Model	Fruity Chutes					
Size		18"	Size	84					
Altitude at Deployme	ent (ft)	Apogee	Altitude at Deploym	nent (ft) 500					
Velocity at Deployme	nt (ft/s)	0	Velocity at Deployme	ent (ft/s) 90		0			
Terminal Velocity	(ft/s)	81	Terminal Velocity	(ft/s) 10		0			
Recovery Harness M	laterial	Tubular Nylon	Recovery Harness N	laterial	Tubular Nylon				
Harness Size/Thickness (in)		1"	Harness Size/Thickn			"			
Recovery Harness Ler	ngth (ft)	16	Recovery Harness Le	ngth (ft) 21		1			
Harness/Airframe Machine-clsoed eyebolt, U bolt, Interfaces washer, nut			Harness/Airframe Interfaces	•					

Kinetic Energy of Each Section (Ft-	Section 1 299.27	Section 2 806.12	Section 3 1109.1	Section 4		Kinetic Energy of Each Section (Ft-	Section 1 4.56	Section 2	Section 3	Section 4		
lbs)						lbs)						
Recovery Electonics							Recovery Electonics					
Altimeter(s)/Timer(s) (Make/Model) Computer/RRC3 Flight Computer Use or primary and						Rocket L (Make/	ocators	Whistle GPS				
Redundancy Plan		secondary flight computers, both different				Transn Freque	-	None				
		mode	ls; indepei batteries	ndent		Black Pow Drogue Chu		3.8				
	Pad Stay Time (Launch Configuration) ~2 hours				Black Pow Main Chut		1.1					
	Milestone Review Flysheet											
nstitution							Milestone					
		Auto	onomous G	round Sup		ment (MA	V Teams O	nly)				
Capture Mechanis m	Overview											
					Over	view						
Container Mechanis m												
					Over	view						
Launch Rail Mechanis m	***Include Description of rail locking mechanism***											
Igniter Installation Mechanis m	Overview											

Payload											
Overview											
Payload 1											
i ayloaa 1											
	Overview										
Payload 2											
					_						
				Test Plans	, Status, ai	nd Results					
Ejection											
Charge											
Tests											
Sub-scale											
Test Flights											
Full-scale											
Test Flights											
			M	ilestone	Reviev	v Flyshe	et				
				iicstoric	Reviev	Vilyanic					
nstitution							Milestone				
				Addit	ional Comi	ments					



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