			Milesto	ne Revie	w Flyshe	et 2017-	2018			
Institution School Name						Milestone		PDR		
Vehicle Properties					Motor Properties					
Total Length (in)			80			Motor Brand/Designation		Cesaroni K2000		
Diameter (in)			4			Max/Average Thrust (lb.)		556.11/440.09		
Gross Lift Off Weigh (lb.)			24.36			Total Impulse (lbf-s)		524.142		
Airframe Material(s)			Fiberglass			Mass Before/After Burn (lb.)				
Fin Material and Thickness (in)			Fiberglass			Liftoff Thrust (lb.)		146.13		
Coupler Lei	ngth/Shoulder L	ength(s) (in)	Minimum is 3.25"			Motor Retention Method		Aero Pack 75 mm Retainer		
		- I 11- A I.							•_	
-		ability Analy				Ascent Analy				
	of Pressure (in fr		116.4851			Maximum Velocity (ft/s)			380.05	
	of Gravity (in fro	,	74.5034			Maximum Mach Number		0.64		
	Stability Margin		11.6701			Maximum Acceleration (ft/s^2)		734.17		
	ability Margin (a	,	11.8867			Predicted Apogee (From S		n Sim.) (ft)	5363.22	
Thrust-to-Weight Ratio		6:1								
Rail Size/Type and Length (in)			96			Recovery System Properties				
Ka	il Exit Velocity (1	(/S)	57.245			Main Parachute				Chutes
	D					Manufacturer/Model		Fruity Chutes 84"		
		ry System Pr				Size/Diameter (in or ft)			-	
Drogue Parach						Altitude at Deployment (ft) Velocity at Deployment (ft/s)		900		
	anufacturer/Mo		Fruity Chutes			Terminal Velocity (ft/s)		116		
Size/Diameter (in or ft)		18			Recovery Harness Material		Tubular Nylon			
Altitude at Deployment (ft)		Apogee			Recovery Harness Material Recovery Harness Size/Thickness (in)		1/0.0071			
Velocity at Deployment (ft/s)		16.54 122			Recovery Harness Size/Trickness (iii)		. ,	25		
Terminal Velocity (ft/s) Recovery Harness Material		Tubular Nylon			Recovery Harness Len				5	
			1/0.0071			Harness/	Airframe machine-		losed stainless steel eye bolts,	
Recovery Harness Size/Thickne Recovery Harness Length (· · /			Interfaces		tubular nyon shock cord		cord
	ery namess Len		2	5		Kinetic	Section 1	Section 2	Section 3	Section 4
Harness/Airfr	ame Interfaces		sed stainless ste ular nyon shock o	•		Energy of Each Section (Ft-lbs)	11.677	357.613	31.45	43.28
Kinetic Enorgy of	Section 1	Section 2	Section 3	Section 4						
Energy of Each Section	361.303	357.613	973.213	1339			Reco	very Electronics		
(Ft-lbs)	501.505	557.015	575.215	1333		Rocket Locators (Make/Model)				
	Rec	overy Electro	onics			Transmitting	Frequencies	****	a multime of here of the	D***
Altimeter(Altimeter(s)/Timer(s) (Make/Model)		Stratologger CF Flight			(all - vehicle and payload)		***Required by CDR***		
			Computer/RRC3 Flight Computer			ection System Energetics (ex		د. Black Powder		
Redundancy Plan and Backup Deployment Settings		use of primary and secondary				Energetics Mass - Drogue Chute (grams)		Primary	3.2	
								Backup	5	
			puter, both different			Energetics Mass - Main Chute (grams)		Primary	4.	5
		models; independent						Backup	5.5	
Pad Stay Ti	me (Launch					Energetics Masses - Other		Primary		
Configuration)		Approximately 2 hours				(grams) - If Applicable		Backup		

Milestone Review Flysheet 2017-2018							
Institution	School I	Name		Milestone	PDR		
		Payloa	ad				
			Overview				
Payload 1 (official payload)							
	Overview						
Payload 2 (non-scored payload)							
		Test Plans, Status	s, and Results				
Ejection Charge Tests							
Sub-scale Test Flights							
Full-scale Test Flights							

Milestone Review Flysheet 2017-2018						
	lilestere					
Institution School Name M	lilestone	PDR				
Additional Comments						

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