	Milestone Revie	v Flysheet 2017-2018
Institution	Maharishi School	Milestone PDR
Vehicle Pro	perties	Motor Properties
Total Length (in)	92.4	Motor Brand/Designation Aerotech K680
Diameter (in)	6.1	Max/Average Thrust (lb.) 180 lbs
Gross Lift Off Weigh (lb.)		Total Impulse (lbf-s)
Airframe Material(s)	Fiberglass	Mass Before/After Burn (lb.)
Fin Material and Thickness (in)	Fiberglass, 0.118	Liftoff Thrust (lb.) 140 lbs
Coupler Length/Shoulder Length(s) (in	1)	Motor Retention Method
Stability A	nalysis	Ascent Analysis
Center of Pressure (in from nose)	72.4 inches	Maximum Velocity (ft/s)
Center of Gravity (in from nose)	60.2 inches	Maximum Mach Number 1
Static Stability Margin (on pad)	2.01	Maximum Acceleration (ft/s^2)
Static Stability Margin (at rail exit)	2.01	Predicted Apogee (From Sim.) (ft) 5,283
Thrust-to-Weight Ratio		
Rail Size/Type and Length (in)		Recovery System Properties
Rail Exit Velocity (ft/s)		Main Parachute
		Manufacturer/Model
Recovery Syster	n Properties	Size/Diameter (in or ft)
Drogue Par	achute	Altitude at Deployment (ft)
Manufacturer/Model		Velocity at Deployment (ft/s)
Size/Diameter (in or ft)		Terminal Velocity (ft/s)
Altitude at Deployment (ft)		Recovery Harness Material
Velocity at Deployment (ft/s)		Recovery Harness Size/Thickness (in)
Terminal Velocity (ft/s)		Recovery Harness Length (ft)
Recovery Harness Material		
Recovery Harness Size/Thickness (in)		Harness/Airframe Interfaces
Recovery Harness Length (ft)		
Harness/Airframe Interfaces		Kinetic Section 1 Section 2 Section 3 Section 4 Energy of Each Section (Ft-lbs)

Kinetic	Section 1	Section 2	Section 3	Section 4						
Energy of Each Section						Recovery Electronics				
(Ft-lbs)						Rocket Locators (Make/Model)				
Recovery Electronics				Transmitting	Frequencies	***Required by CDR***				
Altimeter(s)/Timer(s) (Make/Model)						(all - vehicle a	and payload)	, n	equired by CD	Λ
						ection System	Energetics (ex	. Black Powder		
					Er		ass - Drogue	Primary		
	cy Plan and eployment						Chute (grams)			
	ings					Energetics Mass - Main		Primary		
						Chute (grams)	Backup		
	me (Launch							Primary		
Configu	uration)					(grams) - If	Applicable	Backup		
Milestone Review Flysheet 2017-2018										
Institution		Maharishi School				Milestone		PDR		
	Payload									
					Overvie	w				
Payload 1										
(official										
payload)										
	ngineering paylo	oad will function	through the un	ravelling of a sh	ock cord throu	gh the use of a	motor/winch	when the ardu	ino board and	altimeter wor
					Overvie	w				
Payload 2										
(non-scored payload)										
payloady										

Test Plans, Status, and Results									
Ejection Charge Tests									
		Planned to do by N	lov 30th						
Sub-scale Test Flights		Planned to do 2 sub-scale fl	ights by Dec 14th						
Full-scale Test Flights		Planned two full-scale fligh	ts by March 16th						
Milestone Review Flysheet 2017-2018									
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Institution	Maharishi School		Milestone	PDR					
		Additional Comment	s						
		-Additional Comment	-						

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