		Milestone Review	Flysheet 2017-2018			
Institution	Mał	narishi School	Milestone PDR			
Veh	icle Propert	ies	Motor Properties			
Total Length (in)		92.4	Motor Brand/Designation Aerotech K680			
Diameter (in)		6.1	Max/Average Thrust (lb.) 180 lbs	180 lbs		
Gross Lift Off Weigh (	lb.)	22.35	Total Impulse (lbf-s) 2358			
Airframe Material(s	s)	Fiberglass	Mass Before/After Burn (lb.) 15.66			
Fin Material and Thickne	ess (in)	Fiberglass, 0.118	Liftoff Thrust (lb.) 140 lbs			
Coupler Length/Shoulder Ler	ngth(s) (in)	5.5	Motor Retention Method Motor Retention Cap	Motor Retention Cap		
Sta	bility Analys	sis	Ascent Analysis			
Center of Pressure (in fro	m nose)	72.4 inches	Maximum Velocity (ft/s) 656	656		
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) 180.45			
Static Stability Margin (at	rail exit)	2.01	Predicted Apogee (From Sim.) (ft) 5,283			
Thrust-to-Weight Ratio		2				
Rail Size/Type and Length (in)		15	Recovery System Properties			
Rail Exit Velocity (ft,	/s)	40	Main Parachute			
			Manufacturer/Model Aerotech			
Recovery	y System Pro	operties	Size/Diameter (in or ft) 81.457	81.457		
	gue Parachı	•	Altitude at Deployment (ft) 750	750		
Manufacturer/Mod	el	Aerotech	Velocity at Deployment (ft/s) n/a	n/a		
Size/Diameter (in or	ft)	40	Terminal Velocity (ft/s) n/a	n/a		
Altitude at Deploymen	it (ft)	5284	Recovery Harness Material Ripstop Nylo	n		
Velocity at Deployment	(ft/s)	0	Recovery Harness Size/Thickness (in) 0.2	0.2		
Terminal Velocity (ft	/s)	300	Recovery Harness Length (ft) 0.984			
Recovery Harness Mat	erial	Ripstop Nylon				
Recovery Harness Size/Thic	kness (in)	0.2	Harness/Airframe n/a			
Recovery Harness Leng	th (ft)	0.984	Interfaces			
			Kinetic Section 1 Section 2 Section 3 Sec	ction 4		
Harness/Airframe Interfaces		n/a	Energy of Each Section (Ft-lbs) n/a n/a n/a	n/a		

Kinetic	Section 1	Section 2	Section 3	Section 4							
Energy of Each Section		1 ,	,	,		Reco	very Electro	onics			
(Ft-lbs)	n/a	n/a	n/a	n/a	Rocket L	ocators					
					(Make/	(Make/Model)		GPS			
	Recovery Electronics			_	Transmitting Frequencies (all - vehicle and payload)  ***Required by CDR*						
Altimeter(s)/Timer(s)					•	. , ,					
(Make/Model)		Aerotech			ection System	Energetics (ex					
Da doua da a	Dla	lan and		_	Energetics Mass - Drogue		57.6				
	cy Plan and eployment						Backup Primary	57.6			
Set	tings					Energetics Mass - Main Chute (grams)		229			
			yes		Chute (			229			
	me (Launch	: . I			Energetics Ma		Primary	n/a			
Configi	uration)		yes		(grams) - If	Аррисавіе	Backup	n/a			
	Milestone Review Flysheet 2017-2018										
Institution	Maharishi School					Milestone		PDR			
	Payload Payload										
	Overview										
Payload 1											
(official											
payload)											
	nginooring nav	and will function	through the ur	aravolling of a cl	ck cord through the use of a	matar/winch	when the ard	ing heard and altimeter			
	ingineering pay	oad will fullction	i tili ougii tile ui	iraveiling or a si	ck cord through the use of a	i illotor/ willen	when the arut	anio board and altimeter			
		Overview									
Payload 2											
(non-scored											
payload)											

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									
		•							
Institution	Maharishi School		Milestone	PDR					
		Additional Comment	s						
		-Additional Comment	<del>-</del>						

	•	•			•	•	

Ī	•	•	•	•	•	•	•	•	•	•	