		Milestone Review	/ Flysheet 2017	-2018				
Institution	Mał	narishi School		Milestone		PDR		
Ve	hicle Propert	ies		Mo	tor Propert	ties		
Total Length (in))	90	Motor Brand	Motor Brand/Designation		Aerotech K680)	
Diameter (in)		6	Max/Averag	Max/Average Thrust (lb.)		187.72/152.87	'	
Gross Lift Off Weigh	(lb.)	20.9	Total Imp	ulse (lbf-s)		530		
Airframe Material	(s)	Fiberglass	Mass Before/	After Burn (lb.)		6.7/3.8		
Fin Material and Thickr	ness (in)	Fiberglass, 0.118	Liftoff Th	rust (lb.)		140		
Coupler Length/Shoulder Le	ength(s) (in)	4	Motor Reter	tion Method	Мо	Motor Retention Cap		
St	ability Analys	sis		As	cent Analy	sis		
Center of Pressure (in fro	om nose)	72 inches	Max	imum Velocity	(ft/s)	682		
Center of Gravity (in fro	m nose)	58.9 inches	Maxi	Maximum Mach Number			0.62	
Static Stability Margin (gin (on pad) 2.19		Maximu	Maximum Acceleration (ft/s^2)		ft/s^2) 247.7		
Static Stability Margin (at	t rail exit)	2.01	Predicted	Predicted Apogee (From Sim.) (ft)		im.) (ft) 5,327		
Thrust-to-Weight R	atio	7.3						
Rail Size/Type and Len	gth (in)	12		Recover	y System Pi	ystem Properties		
Rail Exit Velocity (f	t/s)	68		Main Parachute				
			Manufacturer/Model Crossfire			sfire		
Recove	ry System Pro	operties	Size	/Diameter (in o	or ft)	1	44	
	ogue Parachı		Altitud	Altitude at Deployment (ft)			00	
Manufacturer/Mo	acturer/Model Crossfire		Velocit	Velocity at Deployment (ft/s)		101	L.00	
Size/Diameter (in o	r ft)	18	Terr	ninal Velocity (y (ft/s) 15		.38	
Altitude at Deployme	nt (ft)	5327	Recov	Recovery Harness Material		s Material Ripsto		
Velocity at Deploymer	nt (ft/s)	0	Recovery H	Recovery Harness Size/Thickness (in)		0.2		
Terminal Velocity (ft/s)	101.00	Recove	ry Harness Ler	igth (ft)	22	2.5	
Recovery Harness Ma	nterial	Ripstop Nylon						
Recovery Harness Size/Thi	ckness (in)	0.2	Harness/ Inter			n/a		
Recovery Harness Len	gth (ft)	22.5	inter	iaces				
	L		Kinetic	Section 1	Section 2	Section 3	Section 4	
Harness/Airframe Interfaces		n/a	Energy of Each Section (Ft-lbs)	76.77	n/a	n/a	n/a	

Kinetic	Section 1	Section 2	Section 3	Section 4						
Energy of Each Section	2 240 57	,	. 1.		Rec	overy Electro	nics			
(Ft-lbs)	3,310.57	n/a	n/a	n/a	Rocket Locators					
					(Make/Model)	Trickimo 3G GPS Tracker				
Recovery Electronics		Transmitting Frequencies (all - vehicle and payload)	***Required by CDR***							
Altimeter(s)/Timer(s) (Make/Model)		Perfect	flite Stratolo	nggerCF	ection System Energetics (6		. Black Powder Black Powder			
		Perfectflite StratologgerCF			Energetics Mass - Drogue	Primary	57.6			
Redundand	y Plan and			Chute (grams)	Backup	57.6				
Backup De Sett	eployment tings	ment			Energetics Mass - Main	Primary	229			
	. 0-		yes		Chute (grams)	Backup	229			
Pad Stay Ti	me (Launch		•		Energetics Masses - Other	Primary	n/a			
Configu	uration)		yes		(grams) - If Applicable	Backup	n/a			
Milestone Review Flysheet 2017-2018										
Institution	Maharishi School				Milestone	•	PDR			
motiedeion		IVIG	Harisiii Sch)OI			1 DIX			
					oad					
					Overview					
Payload 1 (official payload)	(official									
					Overview					
					Over view					
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	-						

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