Appendix E. Mechanical PVDR Form



ASC2018 Mechanical PVDR Form

School/Team:	University of Waterloo /	' Midnight Sun Solar Car Team	Entry # 24
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Mechanical PVDR/Table of Contents

1.	History of tean	n and vehicle (one paragraph)	page _	2
2.		le: Single-Occupant (), Multi-Occupant (_x_) check one		
3.		t (estimate) (<u>550</u>); Units (<u>x</u>) kg (<u></u>) lbs,		
4.		ption shall be presented by profile and top view drawings showing		
	•	of major components such as driver, battery, ballast box, crush zone,		
		inting points, etc, along with overall dimensions including wheel base		2
5.	and tread	is and roll cage type: tubular frame (x), composite (), check one.	page_	
J.		show the driver positioned in the frame/chassis, compliance		
		3,10.3.B,10.3.C, and description of method of construction	page_	3
6.		ofile and frontal drawings shall show compliance with Regs 10.3.F and	pago_	
	10.3.G	9	page_	5
7.	Seat Belts: 5	point (<u>x</u>), 6 point (<u></u>), check one		
		indicate location of mounting points and compliance with Reg. 10.3.E	page_	6
8.		em: Front wheel only (<u>x</u>), Front-rear (), check one.		
		d description of primary braking system shall show		0
0		th Regs.10.5 and 10.6	page_	
9.		em type: rack and pinion (_x_), other (), check one. all include component selection and specs	page_	10
10.	•	sion: type: a-arm (_x_), other (), check one	page_	
10.		all include drawing/photos, component selection and engineering		
		Instrating proper selection and sizing of rod ends		
	with shear load	• • •	page_	10
11.		sion: type: a-arm (), swing arm (_x_), other, check one.		
		all include drawing/photos with component selection and specs, and		
		nalysis demonstrating proper selection and sizing of rod		12
10	ends with shea		page _	12
12.		method of analysis to be used to prove structural integrity nditions as per Appendix D, Section D.1	page _	13
			page_	
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Project	Manager:	Name: Tak Alguire Fmail address: tak alguire@uwmidsun.com		