## Appendix E. Mechanical PVDR Form



## ASC2018 Mechanical PVDR Form

School/Team:	University of Waterloo	/ Midnight Sun Solar Car Team	Entry # 24

## **Mechanical PVDR/Table of Contents**

1.	History of team	n and vehicle (one paragraph)	page	2
2.		le: Single-Occupant (), Multi-Occupant (_x_) check one		
3.	Vehicle weight	(estimate) ( <u>550</u> ); Units ( <u>x</u> ) kg ( <u></u> ) lbs,		
4.		otion shall be presented by profile and top view drawings showing		
		of major components such as driver, battery, ballast box, crush zone,		
		nting points, etc, along with overall dimensions including wheel base		_
	and tread		page_	
		s and roll cage type: tubular frame $(\underline{x})$ , composite $(\underline{\hspace{1cm}})$ , check one.		
		show the driver positioned in the frame/chassis, compliance		2
•		3,10.3.B,10.3.C, and description of method of construction	page_	
6.		ofile and frontal drawings shall show compliance with Regs 10.3.F and		_
7	10.3.G	noint ( ) C noint ( ) shook one	page_	_5_
7.	Seat Beits: 5	point (_x_), 6 point (), check one	2000	6
8.		ndicate location of mounting points and compliance with Reg. 10.3.E <b>m:</b> Front wheel only ( <b>x</b> ), Front-rear ( ), check one.	page_	
0.		I description of primary braking system shall show		
		th Regs.10.5 and 10.6	page_	9
9.		em type: rack and pinion (_x_), other (), check one.	page_	
0.		all include component selection and specs	page_	10
10.		sion: type: a-arm ( x ), other ( ), check one	page_	
		all include drawing/photos, component selection and engineering		
	analysis demonstrating proper selection and sizing of rod ends			
	with shear load	J	page_	10
11. Rear Susper		sion: type: a-arm (), swing arm (_x_), other, check one.		
	Description sha	all include drawing/photos with component selection and specs, and		
	engineering an	alysis demonstrating proper selection and sizing of rod		
	ends with shea		page _	12
12.		method of analysis to be used to prove structural integrity		
	For loading co	nditions as per Appendix D, Section D.1	page _	13
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