TEAM:								#:
				Single-Occupant	Multi-Occup	pant		
Driver / Passenger Registrat			cker & itials	Electrical	Sticker & Initials	Solar Collecto	or	Sticker & Initials
Notes:	1			Notes:		Notes:		
Driver Operation	ns		cker & itials	Battery Protection System	Sticker & Initials	Safety		Sticker & Initials
Notes:				Session A Notes: Session B Notes:		Notes:		
Lights & Vision			cker & itials	Mechanical	Sticker & Initials	Impoun MOV	d /	Sticker & Initials
Notes:				Notes:		Impound ☐ ☐ In Vehi ☐ MOV Mei ☐ Certifie	cle □ E tered Cha	External Box rging lot Certified
Body & Sizing			cker & itials	Dynamics	Sticker & Initials	ASC Support	t	Sticker & Initials
Notes:				Notes:		Notes:		
Passed for FSGP (Track)	Н	IQ Rece	eived Date/T	ime/Initials	Passed for ASC (Road)	HQ Receiv	/ed Date/T	Time/Initials
- C				Scrutineerin				W. L. (D. D.)
Station	Regulat	1011		Description	oi issue]	Miles Laps Miles Laps	
							Miles Laps	

Summary Sheet

ELECTREK FSGP 2025 SCRUTINEERING

11.3 **Shoes** – Solid sole, closed-toe, no individually enclosed toes

TEAM:	#:
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	Driver 1	Driver 2	Driver 3	Driver 4
Regulation / Driver Name				
11.1.A – Driver is registered with HQ (has ID), is 18 or older with valid DL				
9.7.C – Common Ballast	Mass [kg]		Ballast Tag #	
Driver Mass [kg] (includes driving clothes and shoes but not helmet)				
9.7 – Ballast Mass [kg] – ballasted to 80 kg (176 lb)				
	Orange	Orange	Orange	Orange
	Yellow	Yellow	Yellow	Yellow
Wristband Color	Green	Green	Green	Green
	Blue	Blue	Blue	Blue
	Purple	Purple	Purple	Purple
Wristband ID #				
Ballast Security Tag ID #				
			•	
11.1.A.2 # of solar car drivers registered – (2 min, 4 max)				
11.2 Helmets – Type/Rating – Snell M2010, Snell M2015, Snell M2020, DOT FMVSS, ECE 22.05, AS/NZS 1698				

*** FOR MULTI-OCCUPANT VEHICLES, COMPLETE PAGE 2 FOR PASSENGERS ***

	Station Manager:	
Sticker &	Entrance:	All occupants report with ballast material, helmet(s), proper driver / passenger uniforms
Initials	Station Grade:	Green = Pass (Track & Tour Ready) Blue = Pass with Penalty Condition (Track Ready) Yellow = Needs Improvement (Dynamics Ready) Red = Fail / Safety Hazard

TEAM:	#:
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*** FOR MULTI-OCCUPANT VEHICLES ***

	Passenger 1	Passenger 2	Passenger 3	Passenger 4
Passenger Name				
11.1.B Registered with HQ (has ID), is 18 or older				
Passenger Mass [kg] (includes clothes and shoes but not helmet)				
9.7 Ballast Mass [kg] – ballasted to 80 kg (176 lb)				
Passenger Number Punched (1-8, X)	1 2 3 4 5 6 7 8 X	1 2 3 4 5 6 7 8 X		1 2 3 4 5 6 7 8 X
Wristband ID #				
Ballast Security Tag ID #				
	Passenger 5	Passenger 6	Passenger 7	Passenger 8
Passenger Name				

	Passenger 5	Passenger 6	Passenger 7	Passenger 8
Passenger Name				
11.1.B Registered with HQ (has ID), is 18 or older				
Passenger Mass [kg] (includes clothes and shoes but not helmet)				
9.7 Ballast Mass [kg] – ballasted to 80 kg (176 lb)				
Passenger Number Punched (1-8, X)	1 2 3 4 5 6 7 8 X	1 2 3 4 5 6 7 8 X	1 2 3 4 5 6 7 8 X	
Wristband ID #				
Ballast Security Tag ID #				

11.1.B.1 # of solar car passengers registered –	
(8 max)	

Driver Operations Statio	n
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TEAM:	#:
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Regulation	10.3.A.15 Roll Cage Clearance – 50 mm min roll cage to helmet,	9.6.A Egress Buckled in seat to standing outside plane of solar car – no wheel chocks, unassisted		
	30 mm min padding to helmet	Primary (< 10 sec)	Secondary (< 15 Sec)	
Driver 1				
Driver 2				
Driver 3				
Driver 4				
Passenger 1				
Passenger 2				
Passenger 3				
Passenger 4				
Passenger 5				
Passenger 6				
Passenger 7				
Passenger 8				

Regulation	Grade	Comments
11.5 Water/Fluids – Plan for water/fluid provision (2L min / per occupant)		
11.6 Radios/Communication – Driver in radio contact with team, hands free		
11.6.B Cell Phone in Solar Car – Hands free and fixed mounting		
9.7.B Ballast Carriers – One per occupant, securely mounted within 300 mm of hip point		
9.7.D Ballast Access – Ballast bag/ID tags visible through ballast box lid for visual checks		
9.7.C Common Ballast Box (SOV Only) – Securely mounted and sealable if equipped		□ Common Ballast □ No Common Ballast

Station	Manager:
Station	wianager:

Sticker & Initials

Entrance: All occupants report with ballast, helmet(s), proper driver /

passenger uniforms with fully assembled solar car and radio

communication;

Yellow status or better in Driver Registration

Station Grade: Green = Pass (Track & Tour Ready)

Blue = Pass with Penalty Condition (Track Ready) Yellow = Needs Improvement (Dynamics Ready)

	Ligl	nts	&	V	ision	Sta	tio
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TEAM:	#:
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Regulation	Grade	Comments
Vision		
9.5.B Forward/Side Vision – 6.4 m above @ 12.2 m forward, ground @ 8 m forward, 100° side to side, 50 mm high letters @ 3m forward & @3m to each side		
9.5.E Rear Vision – Camera/view screen securely fixed in position & visible in normal driving position		
9.5.E.1 Rear Vision – 15 m rearward, 30° L/R off center, single reflex image		
Lighting/Signals/Horn		
9.4.A Lighting – DRL/Headlamps – White, visible 20° out/in, 10° up at 30 m		
9.4.B Lighting – Front Turn – Amber, visible 80° out, 45° in, 15° up at 30 m		
9.4.B.5 Lighting – Front Turn – Operation ; If colocated DRL is not disabled during turn indicator operation, turn indicator shall be visible with DRL on		
9.4.C Lighting – Side Marker – Amber, visible 60° arc, from 5° to 65° off centerline (viewed from rear), 15° up at 30 m		
9.4.D Lighting – Brake – Red, visible 45° L/R, 15° up at 30 m		
9.4.E Lighting – Rear Turn – Red/amber, visible 80° out, 45° in, 15° up at 30 m		
9.4.F Lighting – High Mount Brake – Red, visible 10° L/R, 10° up at 30 m		
9.4.G Lighting – BPS Fault – White, visible 10° L/R, 10° up at 30 m		
9.4.H Emergency Hazard Lights Format – Front turn, side markers, rear turn flash in sync		
9.4.I Horn – 75-102 dB sound level @ 15 m forward, permanently mounted, steering wheel operated, up to 5 min continuous duration		

Station Manager:

Sticker & Initials

Entrance: Driver in fully assembled solar car, radio communication, & Battery

Spill Kit;

Yellow status or better in Driver Registration & Electrical

Station Grade: Green = Pass (Track & Tour Ready)

Blue = Pass with Penalty Condition (Track Ready) Yellow = Needs Improvement (Dynamics Ready)

body & Sizing Station 1.	Body	&	Sizing	Station	P 1
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TEAM: #:	
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Regulation	Grade	Comments
Dimensions & Body		
9.1 Solar Car Dimensions [m] – Max dimensions:		L H
L = 5.0 m, W = 2.2 m, H = 1.6 m		
9.3 Ground Clearance – 100 mm min		
8.I.I & 9.2 Operational Configuration – Body		
remains fixed (no reorientation/tilting) when moving		
under its own power		
9.5.C & 9.5.D Windshield – Shatter resistant,		
securely mounted, method to clear rain, distortion		
free. Must be Polycarbonate or folded Acrylic		
9.8.A Solar Car Numbers – High contrast approved color, min 50 mm background, min 250 mm H x 120		
mm W numerals, min 40 mm brush stroke, min 25		
mm spacing, visible from 3 m at 1.8 m above ground		
9.8.B Institution Name – Displayed on car with		
approved abbreviations and more prominent than any		
team sponsor logo/name, no disruptive or offensive		
graphics. Visible from 3 m at 1.8 m above ground		
9.8.C Event Logo – Space (200 mm H x 500 mm W)		
on both sides, visible from 3 m @ 1.8 m above ground		
9.8.D National Flag – Displayed on both sides of car		
by windshield (min size 70 mm x 40 mm)		
9.8.E Front Signage – Host institution name, space		
for event logo (150 mm x 150 mm), visible from top		
and front elevation view		
9.4.A Daytime Running Lights – Located at front of		
car, min 600 mm apart (400 mm for cars narrower		
than 1300 mm), min 250 mm above ground, within		
200 mm from absolute front of car 9.4.B Front Turn Indicators – Located at front of		
car, min 600mm apart (400 mm for cars narrower than		
1300 mm), min 350 mm above ground, within 200		
mm from absolute front of car		
9.4.C Side Marker Turn Indicators – Located on		
each side of car, 500 to 1800 mm from absolute front		
of car, within 400mm from extreme outer side edge		
9.4.D Rear Brake Lights – Located at rear of car,		
min 600mm apart (400 mm for cars narrower than		
1300 mm), within 400 mm from extreme outer side		
edge, min 350 mm above ground, within 200 mm		
from absolute rear of car		
9.4.E Rear Turn Indicators – Located at rear of car,		
min 600mm apart (400 mm for cars narrower than		
1300 mm), within 400 mm from extreme outer side		
edge, min 350 mm above ground, within 200 mm		
from absolute rear of car 9.4.F High Mount Center Brake Light – Rearward		
facing, located within 150mm of the highest point of		
the car and above top of rear brake lights		
Front of Car to Driver's Headrest Distance [m] –		_
(Used for upward vision calcs)		D

Body & Sizing Station P2

TEAM: #:	₩•
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Regulation	Grade	Comments
Cockpit		
7.1.A, 10.3.B.1 Single Occupant Class # of Seats – (Max of 1)		
7.1.B, 10.3.B.2 Multi-Occupant Class # of Seats – (2-4)		
10.3.B.3 Seating Position – Seat within ±10° of forward facing		
10.3.B.4 Back and Head Restraint – 800 mm min hip point to head restraint top (750 mm min for MOV rear seats) 10.3.B.5, 10.3.B.6 Occupant heels below hip point –		
>90° angle between shoulders, hips, knees		
10.3.C Occupant Space Check		
9.5.A Visibility – 700 mm min eye height from ground (all occupants) 10.3.D Belly Pan – Full occupant isolation from road, able to support 80 kg, occupant torso and limbs above lower element of structural chassis		
10.3.A.13 Padding – Roll cage padded around helmet meeting SFI-45.1/FIA 8857-2001 A or B or better, wrapping 50% min around roll cage member		
10.3.A.14 Headrest – Secure headrest provided with 19 mm min thick padding		
9.5.F Outside Air Circulation – Cockpit vents directed at occupant's face / fan present if intake is from wheel openings		
9.6.B Egress – Can be opened from both inside and outside, no tape used at egress point, positive latch		
9.6.B.4 Egress Opening – 25 mm wide high contrast stripe, external release marked "Open" in 20 mm min high letters within 300 mm from opening edge		
Vehicle Mass & Tires		
Vehicle Mass – Ballasted occupants in all seats		LF [kg] RF [kg] LR [kg] RR [kg]
(multiply kg value by 2.205 to get lb)		Total [kg] Total [lb]
10.2.A.2 Wheel/Tire Sets – Left to right contact patches at least half overall car width		
10.2.D Tire Speed & Load Ratings (per tire) – Tires inflated within manufacturer's rating, tube-type tires need tubes, US DOT or similar		Speed Symbol Max Speed [MPH] Load Index Max Load [kg] Load Range Max Inflation [PSI]
10.2.E Wheel/Rim – Profile matches bead requirements of tire Tire Set Configuration Notes:		

Dout & Sizing Station 1 5	Body	&	Sizing	Station	P3
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TEAM:	#:
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Regulation	Grade	Comments
8.1 Solar Collector Sizing		
8.1.A Cell Type		Type
8.1.B Size – SOV: 4m ² , MOV: 5m ²		
5.2.F Solar Cell Technology – Solar cells match information given in VDR		
8.1.F Example Cell and Layout Map – Matches physical solar collector on car		
8.1.E No More than 6 Cell Types or Sizes Used		
8.1.D Concentrator		
8.1.G Solar Collector Connections & Stands – Solar collector stands are self-supporting, all portions of the collector are carried by solar car (stands, supports, cables, electrical connections, etc)		

Station Manager:

Sticker & Initials

Entrance: Driver and ballasted occupants in fully assembled solar car;

Yellow status or better in Driver Registration

Station Grade: Green = Pass (Track & Tour Ready)

Blue = Pass with Penalty Condition (Track Ready) Yellow = Needs Improvement (Dynamics Ready)

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r,	ectrical	Sialion

TEAM:	#:
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5.2.D & 8.2.A Storage Batteries – Match submitted battery approval form (cell type, qty, pack config. etc) 8.2 Energy Storage System Information Pack Capacity [kWh] – (5.25 kWh max for SOV, Unlimited for MOV) Pack Chemistry	Regulation	Grade	Comments
battery approval form (cell type, qty, pack config. etc) 8.2 Energy Storage System Information Pack Capacity [kWh] - (5.25 kWh max for SOV, Unlimited for MOV) Pack Chemistry	8 Power – No power source aside from solar collector		
8.2 Energy Storage System Information Pack Capacity [kWh] – (5.25 kWh max for SOV, Unlimited for MOV) Pack Chemistry □ Li-S □ Li-Ion / Li Polymer □ LiFePo4 □ 8.2.B Other 8.4.D Battery Ventilation – Whenever battery is enabled, forced ventilation pulls air from battery enclosure through sealed ducting to exterior vent away from driver airstream (fan can operate from supplemental if BPS trips) 8.4.E External Cooling – Not permitted unless powered by main battery or in an emergency 8.4. 8.4.C Battery Enclosure – non-conductive inside, no more than 2 enclosures, 10mm labels 8.4.4. Isolation – I MΩ min terminal to chassis 8.6.C External Power Cut Off Switch – Location, marking, operation, covering, load rated 8.9 Electrical Shock Hazards – Protected and marked with 10 mm min high letters 8.2.B., 8.2.E Other Storage Techniques – Power condensers, flywheels, fuel cells 8.4.B Battery Mounting – Enclosure/modules secure 8.2.C Supplemental Batteries – Must power BPS momentarily for startup checks – must power BPS must p	5.2.D & 8.2.A Storage Batteries – Match submitted		# of Battery Cells in Vehicle Pack
Pack Capacity [kWh] - (5.25 kWh max for SOV, Unlimited for MOV) Pack Chemistry	battery approval form (cell type, qty, pack config, etc)		
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enclosure through sealed ducting to exterior vent away from driver airstream (Fan can operate from supplemental if BPS trips) 8.4. E External Cooling — Not permitted unless powered by main battery or in an emergency 8.4. 8.4. C Battery Enclosure — non-conductive inside, no more than 2 enclosures, 10mm labels 8.4. A. Isolation — I MΩ min terminal to chassis 8.6. C External Power Cut Off Switch — Location, marking, operation, covering, load rated 8.9 Electrical Shock Hazards — Protected and marked with 10 mm min high letters 8.2. B., 8.2. E Other Storage Techniques — Power condensers, flywheels, fuel cells 8.4. B Battery Mounting — Enclosure/modules secure 8.2. C Supplemental Batteries — Must power BPS momentarily for startup checks — must power BPS momentarily for startup checks — must power BPS fault — specify if it powers other allowable systems 8.4 Supplemental Pack Location — Battery enclosure 8.5. A Main Fuse — First in series (+), not exceeding 200% peak current or 75% of wire capacity 8.5. B Branch — Proper fuses on wiring off main bus 8.5. C Voltage Taps — Fused/current limited <10mA 8.6. A Main Power Switch — Non-latching, normally open, able to interrupt peak current, 10 mm labels 8.7. A Cable Sizing — Proper size for system current 8.8. B Accelerator — Free moving, return to zero, located right of brake pedal (if equipped) 8.9. A Control — Driver has sole control 8.8. C Cruise Control — Driver activated only,	8.4.D Battery Ventilation – Whenever battery is		
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inside, no more than 2 enclosures, 10mm labels 8.4.A, Isolation −1 MΩ min terminal to chassis 8.6.C External Power Cut Off Switch − Location, marking, operation, covering, load rated 8.9 Electrical Shock Hazards − Protected and marked with 10 mm min high letters 8.2.B., 8.2.E Other Storage Techniques − Power condensers, flywheels, fuel cells 8.4.B Battery Mounting − Enclosure/modules secure 8.2.C Supplemental Batteries − Must power BPS momentarily for startup checks − must power BPS, BPS strobe & BPS fault dash indicator during BPS fault − specify if it powers other allowable systems 8.4. Supplemental Pack Location − Battery enclosure 8.5.A Main Fuse − First in series (+), not exceeding 200% peak current or 75% of wire capacity 8.5.B Branch − Proper fuses on wiring off main bus 8.5.C Voltage Taps − Fused/current limited <10mA 8.6.A Main Power Switch − Non-latching, normally open, able to interrupt peak current, 10 mm labels 8.7.A Cable Sizing − Proper size for system current 8.8.B Accelerator − Free moving, return to zero, located right of brake pedal (if equipped) 8.9.A Control − Driver has sole control 8.8.C Cruise Control − Driver activated only,			
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8.8.C Cruise Control – Driver activated only,			
automatic deactivation by brake pedal/power off			
	automatic deactivation by brake pedal/power off		
8.8.D Reverse – Under own power			
8.4.F Security – Official battery seal applied	8.4.F Security – Official battery seal applied		

Sticker &
Initials

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Station	Manager:
Marion	- VIAHAVEL

Entrance: Fully assembled solar car & Battery Spill Kit

Station Grade: Green = Pass (Track & Tour Ready)

Blue = Pass with Penalty Condition (Track Ready) Yellow = Needs Improvement (Dynamics Ready)

Battery Protection Sy	stem Station
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TEAM:				#:		
8.3 BPS - OVER VOLTAGE (OV) TEST						
☐ String ☐ Module [☐ Cell – Test Level		□ Pass □ F	Fail		
Nominal Voltage: Max Voltage: BPS Max Trip: □ Filtering □ Delay	Vnom @°C Vmax @°C Vmax_trip	BPS BPS	S V Resolution:	_VDC _S/sec		
	8.3 BPS - UNDER VO					
☐ String ☐ Module [☐ Cell – Test Level		□ Pass □ N/A □ F	ail		
Nominal Voltage: Min Voltage: BPS Min Trip: □ Filtering □ Delay	Vnom @ °C Vmin @ °C Vmin_trip	BPS	S V Resolution:	VDC S/sec		
	8.3 BPS - OVER CUI	RRENT	(OC) TEST			
☐ String ☐ Module –	Test Level		□ Pass □ N/A	A □ Fail		
Max Current (dis BPS I Trip(charg	Arge): °C charge): °C lmax @°C e): max_trip lmax_trip	BPS BPS	S I Resolution: S I Range: S Sample Rate: S Disconnect Delay:	VDC S/sec		
8.3 BPS - OVER TEMPERATURE (OT) TEST						
☐ String ☐ Module [□ Pass □ N/A □ F	ail		
	emperature: / (Charge) / (Discharge) emperature: /°C _°C Tmax_trip_charge _°C Tmax_trip_discharge	BPS BPS	T Resolution: T Range: Sample Rate: Disconnect Delay:	Bit		
Regulation		Grade	Comments			
8.6.B Fault Dash Indie	cation – Illuminates on BPS trip					
9.4.G.2 BPS Fault Ind	icator Strobe – Illuminates on BPS trip					
Sticker & Initials	Yellow status	or better		attery Spill Kit;		
Station Grade: Green = Pass (Track & Tour Ready) Blue = Pass with Penalty Condition (Track Ready) Yellow = Needs Improvement (Dynamics Ready) Red = Fail / Safety Hazard						

ELECTREK FSGP 2025 SCRUTINEERING

TEAM: #:

Regulation	Grade	Comments
5.2.B Mechanical VDR – vehicle matches mechanical		
technical report		
8.4.B Battery Enclosures – structurally sound and		
properly secured to chassis		
9.7.B, 9.7.C Ballast Boxes – structurally sound and properly secured to chassis		
10.1 Body Panels and Solar Array – securely fastened		
to prevent unintended movement		
10.1.C Array Attachment – 2 independent methods		
10.2.A Wheel Configuration Acceptable		
10.2.B Wheels – Designed to meet application loads		
Remove a front and rear wheel to check fit up		
10.8 Towing Hardpoint – Accessible for forward		
towing with body in place (canopy can be removed)		
Occupant Cell		
10.1.A Covers and Shields – All moving parts covered		
to protect against accidental contact		
10.3 Occupant Cell – Designed for protection, will not		
cause undue strain		
10.7.A, Appendix A Steering Wheel – Sufficient		
strength steering wheel with continuous perimeter		
10.3.E, 10.3.E.3 Safety Belts – Commercial 5 point		
meeting FIA D 280.T, SFI 16.1 or SFI 16.5, Properly attached to acceptable attachment points		
10.3.E.6, 10.3.E.7, 10.3.E.8 Shoulder Belt Placement		
10.3.E.6, 10.3.E.9 Lap Belt Placement		
10.3.E.6, 10.3.E.10 Anti-Submarine Belt Placement		
,		
10.3.E.4 Safety Belt Chafing Through Seat		
10.3.A.1 Roll Cage – Encompasses occupants from		
shoulders up, metallic elements 10.3.A.2 Structural Chassis – Designed to encompass		
occupants in all directions, includes suspension mounts		
10.3.A.16 Shatter Protection – Composites near head		
10.5.E & 10.5.F Pedal Placement – Brake pedal activation, spacing between pedals		
8.8.B Accelerator Pedal Placement – Right foot activation & right of the brake pedal		
Steering		
10.1.B Clearance – Moving parts are interference free		
10.1.B, 10.7.D Steering Static Test – Can turn lock to		
lock while still, no excessive play in steering		
10.7.B Steering stops – In place and functional		

ELECTREK FSGP 2025 SCRUTINEERING

TEAM:	#:
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Regulation	Grad	e	Comm	en	its					
Brakes										
10.5.F Hand Brakes – Lock to lock use without repositioning hands (if equipped) 10.5.A Brakes – Dual independent and balanced coreactive braking system										
10.5.B Brake Pads – Contact area > 6.0 cm ² , initial thickness >= 6.0 mm, full contact with rotor 10.5.D Brake Lines – Appropriately sized and										
constructed 10.5.G.2 Mechanical Rear Brake Performance – 15% of vehicle weight (if equipped) 10.5.G.3 (Or Other Areas) – Volume Limiting Valve			15% of Pull Tes			eight	[lb]			
- Locked out 10.6 Parking Brake - Functional parking brake (must hold 10% of vehicle weight in both directions), lockable, independent, non-tire contact style							[lb]			
Fasteners/Hardware										
10.4.C Rod-Ends – Secured with sufficiently torqued jam nuts (flex-loc/safety wire not required) 10.4.F Hub Nuts – 10.9 mm thick threaded portion required for single central hub nut										
10.4.E Critical Areas	Steering	Brakes	Front	Suspension	Rear Suspension	Seat/Safety Harness	Drive Train	Battery Box	Ballast Box	Parking Brake
10.4 Means of Retention – Must not use friction, glue, or press fit as the only retention mechanism										
10.4.A Bolts – SAE grade 5, M 8.8 or AN/MS, two threads beyond nut, no shaved heads										
10.4.B Securing Bolts – Safety wire, cotter pins, flex-loc nuts, or other approved method (Nylock, Loctite, and thread distortion are not sufficient)										
10.4.D Buckles & Straps – No plastic luggage type buckles or single push release straps										
Fastener/Hardware Notes:				•						

Sticker &	
Initials	

Station Manager:

Entrance: Fully assembled solar car (will be disassembled as necessary within

the station)

Station Grade: Green = Pass (Track & Tour Ready)

Blue = Pass with Penalty Condition (Track Ready) Yellow = Needs Improvement (Dynamics Ready)

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TEAM:	#:
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Regulation			Comments		
U-Turn Test					
10.7.C Turning Radius – Any portion of the car			Right Turn Left Turn		
	l is within 16 m wide lane				
Figure-8 Test		-			
	eel Requirements – All whee	1			
tires must remain on the					
	dy and other stationary parts g parts (except bearings)				
	y – Vehicle must exhibit				
sufficient stability during					
	icle must negotiate Figure-8 in	1	Time for Figure-8		
< 8 sec per side without Proking Test	i nitting cones				
Braking Test					
sufficient stability during	y – Vehicle must exhibit				
	g Performance – Vehicle mus	st	Time Starting Speed [MPH]		
completely stop from >	= 50 km/h (31 MPH) @ > 4.7				
m/s ² deceleration witho	ut undue veering left or right				
Slalom Test					
	y – Vehicle must exhibit				
sufficient stability during			Time Starting Speed [MDII]		
10.9.C Slalom – Negot	iate in 11.5 sec or less		Time Starting Speed [MPH]		
Acceleration Test					
10.9.E Torque – Spe	ed @ 18 m from standstill		Speed [MPH]		
High Speed Stability	Test				
10.9.B Lane Stability -	- Vehicle must be able to stay		Speed [MPH]		
	e up to 65 MPH (105 km/h) &	Ż			
exhibit sufficient stabili	ty and during test				
Defens Dessing Tear	<u> </u>				
Before Passing Team					
10.5.G.3 – Lock out pro	oportioning valve		□Yes □No		
Measure tire pressure []	DÇI]		LF RF		
Weasure the pressure [1	[51]		LR RR		
MOV: Test all driver / passenger configurations!					
	Station Manager:				
		1			
			assengers report to station with fully assembled solar		
			tery Spill Kit, radio communication, & spare tires;		
Sticker & Lights			r better in Driver Registration, Driver Operations,		
Initials	L18	1118 ∝ V 18101	n, Body & Sizing, Electrical, BPS, & Mechanical		
	Station Grade: Gre	en = Pass (1	Гrack & Tour Ready)		
			th Penalty Condition (Track Ready)		
			s Improvement (Dynamics Ready)		
		$\mathbf{l} = \mathbf{Fail} / \mathbf{Sat}$			

Safety Station

TEAM: #:	
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Grade	Con	nments	
nts			
3.1.A.2 Proof of Training		f of Training	3.1.A.3 Solar Car Driver, Solar Car Passenger, Support Vehicle Driver, or Team
First Aid		CPR	Manager – Can't serve in this role while acting as the designated safety officer
	3.1.A.2	3.1.A.2 Proo	3.1.A.2 Proof of Training

Station Manager:

Entrance: Safety Officer(s) must be present

Sticker & Initials

Station Grade: Pass (Track & Tour Ready)

Blue = *Not available at this station* Yellow = *Not available at this station*

TEAM: #:	!:
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8.11 & 8.12.G SOV/MOV Impound	Result/Comments
Solution doesn't contain external hardware or removable hinge pins & allows main	□Pass □Fail
battery power connectors/conductors to be locked/sealed to prevent unmetered	□Impound in Vehicle
battery charging	□External Impound Box
In vehicle solution for battery box lid(s) & openings such as air inlet(s)/outlet(s)	□Pass □Fail □N/A
In vehicle solution for motor, solar collector & other (describe) power port(s)	□Pass □Fail □N/A
External impound box fits, fully contains & completely restricts access to battery box	□Pass □Fail □N/A
External impound box top has school name & team # in at least 20mm high letters	□Pass □Fail □N/A
Max 4 (in vehicle) or 2 (external) seals to secure/unsecure impound (10 mm labels)	□Pass □Fail
Class: □SOV (Skip remaining inspections & proceed to grade station) □MOV (P	roceed with inspections)
8.12.A MOV Charger	Result/Comments
Onboard vehicle charger rigidly secured in vehicle	□Pass □Fail
Charger protected from water ingress	□Pass □Fail
Charger able to accept input voltages from 120-240 Vac	□Pass □Fail
Charger power rating [kW]	
Describe DC charge current limiting methodology:	
 Considers max battery DC charge current limit from BMS 	□Yes □No □Unknown
 Considers the J1772 control pilot max AC current limit 	□Yes □No □Unknown
 Considers user set max charge rate 	□Yes □No □Unknown
8.12.B & 8.11.C MOV Vehicle Power Inlet & MOV Charging Adapter	Result/Comments
Standard EV power inlet receptacle present	□Pass □Fail
Vehicle power inlet securely mounted to vehicle	□Pass □Fail
Adapter needed for J1772 plug to another standard EV power inlet	□Yes □No
 Charging adaptor isn't longer than 1m in length 	□Pass □Fail □N/A
 Charging adapter carried in vehicle when not in use 	□Pass □Fail □N/A
8.12.D MOV Energy Metering	Result/Comments
Sealed IEF energy meter assigned to team (Meter #) (Seal #)
Plug the IEF onboard energy meter into the NEMA 14-50 inline connection	□Pass □Fail
Energy meter display location is can be visibly read while charging	□Pass □Fail
Charger is sealed to prevent unauthorized internal access	□Pass □Fail
Battery box features dedicated charger power port & contactor	□Pass □Fail
8.12.E MOV Charging Safety	Result/Comments
BPS actively monitors/protects the battery during charge	□Pass □Fail
When Main Power Switch opens for BPS fault, the charger contactor also opens	□Pass □Fail
Charge current is automatically limited as battery nears full charge to avoid faults	□Yes No □Unknown
AC/DC power connection enclosures/covers	
Non-conductive	□Pass □Fail
 Only removable with the use of tools 	□Pass □Fail
10 mm high letters with "Caution: High Voltage"	□Pass □Fail
Power conductors sized appropriately for max AC/DC currents	□Pass □Fail
 AC power min conductor size [AWG] DC power min conductor size [AWG] 	

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TEAM: #:	!:
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8.12.F MOV Electric Vehicle Supply Equipment (EVSE)	Result/Comments
Team has J1772 EVSE	□Pass □Fail
EVSE can be plugged into standard NEMA 5-15 120Vac outlet	□Yes □No
120Vac compatible (list max AC current in Amps)	□Yes □No
240Vac compatible (list max AC current in Amps)	□Yes □No
Team has a generator that can be used to charge the vehicle	□Yes □No □Unknown
MOV Charging Testing/Metered Charging Certification	Result/Comments
With EVSE disconnected & vehicle powered off, verify pinout at a slightly separated	d NEMA 14-50 connection
 Neutral (W) - no continuity with other terminals 	□Pass □Fail
 Ground (G) - continuity with vehicle power inlet GND & any exposed charger/chassis metal but no other terminals 	□Pass □Fail
 L1 (B) - continuity with a vehicle power inlet Line but no other terminals 	□Pass □Fail
 L2 (R) - continuity with a vehicle power inlet Line but no other terminals 	□Pass □Fail
Verify charger power conductor isolation	
 AC input power to DC output power conductors 	□Pass □Fail
 AC input power conductors to vehicle chassis 	□Pass □Fail
 DC output power conductors to vehicle chassis 	□Pass □Fail
Have the team demonstrate charging with their own J1772 EVSE	□Pass □Fail
Have the team demonstrate charging with IEF J1772 EVSE	□Pass □Fail □Untested
 Proximity Pilot Validation 	□Pass □Fail □Untested
■ Control Pilot Validation	□Pass □Fail □Untested
Verify the IEF onboard energy meter is reading correctly	□Pass □Fail
Vehicle drive motor is disabled when a J1772 plug is connected	□Pass □Fail
Vehicle charging system is able to detect a broken AC ground scenario	□Yes □No □Untested
Inspect & lock/seal all exposed connectors/conductors on the AC/DC charging power lines between this battery box port & the vehicle power inlet to physically prevent any of these connections from being unplugged or tapped into	□Pass □Fail
Energy Storage Pack Capacity (Q) from Electrical Station [kWh]	
Vehicle certification for metered charging in this event	□Certified □Not Certified

Station Manager:

Entrance:

External Impound Box Teams: Battery Box & Impound Box

Impound In Chassis Teams: Fully assembled solar car & Yellow

status or better in Electrical & BPS

MOV Teams: Same requirements as Impound In Chassis + EVSE

& Battery Spill Kit

Sticker & Initials

Station Grade: Pass (Track & Tour Ready)

Blue = Pass with Penalty Condition (Track Ready)

Yellow = *Not available at this station*

Red = Fail / Safety Hazard

For Impound In Vehicle Teams, battery seals need to be verified before FSGP and photo documentation created for ASC Impound