

Formula Hybrid Car Delivered	Integration and Testing	Electrical Portion Delivered	TSV Delivered	TSV1	Accumulators Delivered	TSV1.1	Mechanical Parts Delivered	TSV1.1.1	Battery Pack Redesign		
						TSV1.2	Accumulator Management System Delivered	TSV1.1.2	Chassis Mounting		
						TSV1.3	Charging System Delivered	TSV1.1.3	Verification		
						TSV1.2.1		TSV1.2.1	PacMen Delivered		
						TSV1.2.2		TSV1.2.2	SegMen Delivered		
						TSV1.2.3		TSV1.2.3	CellMen Delivered		
						GLV1	GLV BOM and Parts Acquired	GLV1.1	All materials delivered	QLV1.1.1	All materials identified
						GLV2	GLV Safety Loop Integrated	GLV2.1	Safety Loop Revised	GLV1.1.2	All materials ordered
						GLV2.2		GLV2.2	Safety Loop Circuit Approved		
						GLV2.3		GLV2.3	Safety Loop Built		
						GLV2.4		GLV2.4	Safety Loop Tested		
						GLV3	GLV BOB Delivered	GLV3.1	BOB Delivered	GLV3.1.1	BOB Revised
						GLV3.2		GLV3.2	BOB Test Fixture Delivered	GLV3.1.2	BOB Design Approved
						GLV3.1.3		GLV3.1.3		GLV3.1.3	BOB Spun
						GLV3.1.4		GLV3.1.4		GLV3.1.4	BOB Tested
						GLV3.2.1		GLV3.2.1		GLV3.2.1	BOB Test Fixture Designed
						GLV3.2.2		GLV3.2.2		GLV3.2.2	BOB Test Fixture Approved
						GLV3.2.3		GLV3.2.3		GLV3.2.3	BOB Test Fixture Built
						GLV4.1		GLV4.1	Enclosure Integrated	GLV4.1.1	Enclosure Revised
						GLV4.2		GLV4.2	Cable Keying Integrated	GLV4.1.2	Enclosure Design Approved
						GLV4.3		GLV4.3	Wire Layout Integrated	GLV4.1.3	Enclosure Built
						GLV4.4		GLV4.4	Grounding to Chassis Delivered	GLV4.2.1	Cable Keying Revised
						GLV4.2.2		GLV4.2.2		GLV4.2.2	Cable Keying Approved
						GLV4.3.1		GLV4.3.1		GLV4.3.1	Wire Layout Revised
						GLV4.3.2		GLV4.3.2		GLV4.3.2	Wire Layout Approved
						GLV4.4.1		GLV4.4.1		GLV4.4.1	Grounding to Chassis Revised
						GLV4.4.2		GLV4.4.2		GLV4.4.2	Grounding to Chassis Approved
						GLV5.1		GLV5.1	Shore Power Supply Delivered	GLV5.1.1	New Shore Power Box Chosen
						GLV5.2		GLV5.2	Shore Power Cooling System Delivered	GLV5.1.2	New Shore Power Box Approved
						GLV5.1.3		GLV5.1.3		GLV5.1.3	New Shore Power Box Integrated with Dyno
						GLV5.2.1		GLV5.2.1		GLV5.2.1	New Shore Power Cooling System Chosen
						GLV5.2.2		GLV5.2.2		GLV5.2.2	New Shore Power Cooling System Approved
						GLV5.2.3		GLV5.2.3		GLV5.2.3	New Shore Power Cooling System Integrated with Dyno
						GLV6.1.1		GLV6.1.1	User Manual Delivered		
						GLV6.1.2		GLV6.1.2	Maintenance Manual Delivered		
						GLV6.1.3		GLV6.1.3	Final Poster Delivered		
						GLV7	GLV Display and Additional Features Integrated		Driver Display Integrated	QLV7.1.1	GLV Display Revised
									Additional Features Integrated	QLV7.1.2	GLV Display Approved
										QLV7.1.3	GLV Display Built
										QLV7.2.1	GLV Additional Features Designed
										QLV7.2.2	GLV Additional Features Approved
										TSI1.1.1	Parameters Confirmed for Enclosure
						TSI1	TSI Enclosure Built and Delivered	TSI1.1	Mechanical Drawing Delivered	TSI1.1.2	Preliminary Design Approved
						TSI1.2		TSI1.2	TSI Enclosure Fabricated and Integrated	TSI1.1.3	Final Design Approved
						TSI1.3		TSI1.3	TSI Enclosure Tested	TSI1.1.4	Drawings Approved and Submitted
										TSI1.2.1	Parts Manufactured
										TSI1.2.2	Enclosure Assembled
										TSI1.2.3	Mounts integrated onto Chassis
										TSI1.3.1	Rules Compliant Check lists
										TSI1.3.2	Waterproof Testing
										TSI1.3.3	Strain Relief Testing
										TSI2.1.1	TSI Block Diagram Delivered
										TSI2.1.2	TSI Circuit Schematic Delivered
										TSI2.1.3	TSI PCB Layout Delivered
						TSI2	TSI Board Delivered	TSI2.1	TSI Board Design Delivered	TSI2.4.1	Testing Board Delivered
						TSI2.2		TSI2.2	TSI Board Built	TSI2.4.2	Tests Conducted
						TSI2.3		TSI2.3	Test Plan Delivered		
						TSI2.4		TSI2.4	TSI Board Tests Delivered		
						TSI2.5		TSI2.5	Board Debugged		
						TSI3.1		TSI3.1	Firmware Known Issues Fixed		
						TSI3	TSI Firmware Delivered	TSI3.1		TSI3.2.1	I/O Functionality Test Delivered
						TSI3.2		TSI3.2	Firmware Tests Delivered	TSI3.2.2	Logic & State Machine Test Delivered
						TSI3.3		TSI3.3		TSI3.2.3	VSCADA & CANBus Test Delivered
						TSI3.4		TSI3.4		TSI3.2.4	Integration Test Delivered
						TSI4	TSI MCS Delivered	TSI4.1	MCS Known Issues Fixed		
						TSI4.2		TSI4.2	MCS Tests Delivered		
						TSI5	TSI Cooling System Delivered	TSI5.1	Cooling System Integration Plan Delivered		
						TSI5.2		TSI5.2	Cooling System Test Plan Delivered		
						TSI5.3		TSI5.3	Cooling System Tests Delivered		
						TSI6	TSI Wiring Delivered	TSI6.1	Wiring Diagram 2018 / 2019 Verified		
						TSI6.2		TSI6.2	Preliminary Wiring Diagram Delivered		
						TSI7	TSI Demonstration				
						TSI8	TSI Paperworks Delivered	TSI8.1	TSI PDR Delivered		
						TSI8.2		TSI8.2	TSI ATP Delivered		
						TSI8.3		TSI8.3	TSI CDR Delivered		
						TSI8.4		TSI8.4	TSI User Manual Delivered		
						TSI8.5		TSI8.5	TSI Maintenance Manual Delivered		
						TSI8.6		TSI8.6	TSI Final Presentation Delivered		
						TSI8.7		TSI8.7	TSI ESF Delivered		
						TSI8.8		TSI8.8	TSI ICD Delivered		
						SC1	Improve Existing Subsystems	SC1.1	Automation Delivered		
						SC1.2		SC1.2	Calibration and Accuracy Testing Delivered		
						SC1.3		SC1.3	Offline Analysis Delivered		
						SC1.4		SC1.4	Logging Delivered		
						SC1.5		SC1.5	Configuration Delivered		
						SC2	Implement Data Processing	SC2.1	Organize data received from Database		
						SC2.2		SC2.2	Allow car to be monitored while online		
						SC2.3		SC2.3	Create UI for data display		
						SC3	Implement Test Fixture	SC3.1	Allow user to test code		
						SC3.2		SC3.2	Design test program of system		
						SC3.3		SC3.3	Update the SCADA with test code		
						SC4	Implement Dashboard Display	SC4.1	Design Hardware Implementation		
						SC4.2		SC4.2	Design Software Implementation		
						DY1	Dyno Delivered	DY1	Torque Measurement Verified		
						DY2		DY2	Throttle Test Board		
						DY3		DY3	Operational Valve		
						CS1	Cooling System Delivered	CS1	Test Operation/Maintainability		
						CS2		CS2	Have fault trip safety loop		
						CS3		CS3	Easily Mountable		
						IN1	Interconnect Delivered	IN1	Wiring Diagrams Complete and Accepted	IN2.1.1	Buttons, Lights, etc. Purchased and all LV Systems Complete
IN2		IN2.1	LV Electronics Integration	IN2.1.2	Mounting Harnesses for LV Electronics Manufactured						
IN2.1.3		IN2.1.3		IN2.1.3	LV Electronics and Cabling Installed						
IN2.1.4		IN2.1.4		IN2.1.4	LV Electronics Tested and Functioning						
IN2.2.1		IN2.2.1		IN2.2.1	HV Systems Complete						
IN2.2.2		IN2.2.2		IN2.2.2	Mounting and Strain Relief Components Manufactured						
IN2.2.3		IN2.2.3		IN2.2.3	HV Electronics Installed						
IN2.2.4		IN2.2.4		IN2.2.4	HV Electronics Tested and Functioning						
DT1.1		DT1.1	Manufactured	DT1.1.1	Housing and mounts designed.						
DT1.1.2		DT1.1.2		DT1.1.2	Designs approved by team						
DT1.1.3		DT1.1.3		DT1.1.3	Designed submitted to shop						
DT1.2		DT1.2	Assembled	DT1.2.1	Differential spins freely with no clearance issues						
DT1.2.2		DT1.2.2		DT1.2.2	Housing correctly covers and shields chain						
DT1.2.3		DT1.2.3		DT1.2.3	Differential correctly connects to CV joint and half shaft						
DT1.2.4		DT1.2.4		DT1.2.4	Half shaft and hubs correctly attach to wheel assembly						

