

Task / Item	In Progress Projected (%)	In Progress Actual (%)	Complete	Dependencies	Week 15	Week 14	Week 13	Week 12	Week 11	Week 10	Week 9	Week 8	Week 7	Week 6	Week 5
Motor Spinning in Dyno Room	100.00%	100.00%	No	Motor Purchased Motor Controller Purchased Pulley / Shaft Fabricated Motor Installed in Motor Mount MCS Installed in Fixture Pulley / Shaft Connected to Motor Motor Controller Purchased MCS / TSI / Cooling Fixture Fabricated TSI Board Complete TSI Mounting Plate Complete											
Motor Controller Connected to TSI, Cooling, and Motor in Dyno Room	100.00%	83.33%	No												
Motor Mount Fabricated	100%	100%	Yes												
Motor Installed in Motor Mount in Dyno Room	100.00%	100.00%	Yes	Motor Purchased Motor Mount Fabricated											
Pulley / Shaft Fabricated	100%	100%	Yes												
Pulley / Shaft Connected to Motor and Mounted in Dyno Room	90.91%	90.91%	No	Motor Purchased Pulley / Shaft Fabricated											
MCS / TSI / Cooling Fixture Fabricated	100%	100%	Yes												
Dyno Room Testing Plan Complete	100%	100%	Yes												
Dyno Room Wiring Diagram Complete	100%	100%	Yes												
GLV Board Manufactured	100.00%	100.00%	Yes												
GLV Mounting Plate Manufactured	100.00%	100.00%	Yes												
Safety Loop Testing Panel Mounted in Dyno Room Rack	100%	100%	Yes												
Safety Loop Functional in Dyno Room	100%	100%	Yes	GLV Board Manufactured											
TSI Board Manufactured	100.00%	92.31%	No												
TSI Mounting Plate Manufactured	100.00%	100.00%	Yes												
TSI Throttle / Brake Control Panel Manufactured	100.00%	100.00%	Yes	TSI Board Manufactured TSI Mounting Plate Manufactured											
Cooling Loop Filled with Water and Tested For Leaks	100.00%	100.00%	Yes												
Cooling System Mounted on Fixture in Dyno Room	100%	100%	Yes	MCS / TSI / Cooling Fixture Fabricated											
Cooling System Connected to MCS and Motor in Dyno Room	100%	100%	Yes	MCS / TSI / Cooling Fixture Fabricated											
Cooling System Connected to TSI in Dyno Room	100.00%	80%	No												
SCADA Recording Data and Writing to a File	100.00%	71%	No												
SCADA Displaying Data to Rack Monitor in Dyno Room	75%	75%	No												
SCADA Communicating with GLV in Dyno Room	100%	100%	Yes	GLV Board and Mounting Plate Integrated											
SCADA Communicating with TSI in Dyno Room	75%	75%	No	TSI Board and Mounting Plate Integrated											
SCADA Communicating with Motor Controller in Dyno Room	100%	75%	No												
All Connecting Wires Produced with Correct Connector Types	100%	100%	Yes												
All Subsystems Fully wired in Dyno Room	100%	100%	Yes												
All Tests According to Test Plan Run in Dyno Room	100%	0%	No												

Week 8
Week 9
Week 10
Week 11
Week 12
Week 13
Week 14
Week 15
Week 16

Projected Actual

No data

Integration Task	Related WBS Items	In Progress WBS Items	Projected Completion (%)	Completed WBS Items	Actual Completion (%)
Motor Spinning in Dyno Room	PART.4.1 - Motor Controller Purchase Order Submitted PART.4.2 - Motor Controller Acquired PART.5.1 - Motor Purchase Order Submitted PART.5.2 - Motor Acquired PART.5.3 - Motor Mounted in Motor Mount PART.6.1 - Motor / Pulley Connected PART.6.2 - Pulley Connected to Dyno Belt PART.6.3 - Motor Controller Connected to Motor	None	75.00%	PART.4.1 - Motor Controller Purchase Order Submitted PART.4.2 - Motor Controller Acquired PART.5.1 - Motor Purchase Order Submitted PART.5.2 - Motor Acquired PART.5.3 - Motor Mounted in Motor Mount PART.6.3 - Motor Controller Connected to Motor	75.00%
Motor Purchased	PART.5.1 - Motor Purchase Order Submitted PART.5.2 - Motor Acquired	None	100.00%	PART.5.1 - Motor Purchase Order Submitted PART.5.2 - Motor Acquired	100.00%
Motor Controller Purchased	PART.4.1 - Motor Controller Purchase Order Submitted PART.4.2 - Motor Controller Acquired	None	100.00%	PART.4.1 - Motor Controller Purchase Order Submitted PART.4.2 - Motor Controller Acquired	100.00%
Motor Controller Connected to TSI, Cooling, and Motor in Dyno Room	PART.4.1 - Motor Controller Purchase Order Submitted PART.4.2 - Motor Controller Acquired TSI.1 - TSI Board Delivered COOL.2.3 - Cooling System Mounted in Dyno Room COOL.3.1 - Cooling System Connected to MCS COOL.3.3 - Cooling System Moving Water to All Connected Systems	TSI.1 - TSI Board Delivered	100.00%	PART.4.1 - Motor Controller Purchase Order Submitted PART.4.2 - Motor Controller Acquired COOL.2.3 - Cooling System Mounted in Dyno Room COOL.3.1 - Cooling System Connected to MCS COOL.3.3 - Cooling System Moving Water to All Connected Systems	83.33%
Motor Mount Fabricated	PART.1.1 - Motor Mount Mechanical Drawing Submitted to Machine Shop and Accepted PART.1.2 - Motor Mount Fabricated PART.1.3 - Motor Mount Secured in Dyno Room		100.00%	PART.1.1 - Motor Mount Mechanical Drawing Submitted to Machine Shop and Accepted PART.1.2 - Motor Mount Fabricated PART.1.3 - Motor Mount Secured in Dyno Room	100.00%
Motor Installed in Motor Mount in Dyno Room	PART.1.1 - Motor Mount Mechanical Drawing Submitted to Machine Shop and Accepted PART.1.2 - Motor Mount Fabricated PART.1.3 - Motor Mount Secured in Dyno Room PART.5.1 - Motor Purchase Order Submitted PART.5.2 - Motor Acquired PART.5.3 - Motor Mounted in Motor Mount	PART.1.2 - Motor Mount Fabricated	100.00%	PART.1.1 - Motor Mount Mechanical Drawing Submitted to Machine Shop and Accepted PART.1.2 - Motor Mount Fabricated PART.1.3 - Motor Mount Secured in Dyno Room PART.5.1 - Motor Purchase Order Submitted PART.5.2 - Motor Acquired PART.5.3 - Motor Mounted in Motor Mount	100.00%
Pulley / Shaft Fabricated	PART.2.1 - Pulley Mechanical Drawing Submitted PART.2.2 - Shaft Drawing Submitted PART.2.3 - Pulley Manufactured / Purchased PART.2.4 - Shaft Manufactured / Purchased PART.2.5 - Pulley System Mounted in Dyno Room	PART.2.4 - Shaft Manufactured	80.00%	PART.2.1 - Pulley Mechanical Drawing Submitted PART.2.2 - Shaft Drawing Submitted PART.2.3 - Pulley Manufactured / Purchased	60.00%
Pulley / Shaft Connected to Motor and Mounted in Dyno Room	PART.1.1 - Motor Mount Mechanical Drawing Submitted to Machine Shop and Accepted PART.1.2 - Motor Mount Fabricated PART.1.3 - Motor Mount Secured in Dyno Room PART.5.1 - Motor Purchase Order Submitted PART.5.2 - Motor Acquired PART.5.3 - Motor Mounted in Motor Mount PART.2.1 - Pulley Mechanical Drawing Submitted PART.2.2 - Shaft Drawing Submitted PART.2.3 - Pulley Manufactured / Purchased PART.2.4 - Shaft Manufactured / Purchased PART.2.5 - Pulley System Mounted in Dyno Room	PART.2.2 - Shaft Drawing Submitted PART.2.4 - Shaft Manufactured	90.91%	PART.1.1 - Motor Mount Mechanical Drawing Submitted to Machine Shop and Accepted PART.1.2 - Motor Mount Fabricated PART.1.3 - Motor Mount Secured in Dyno Room PART.2.1 - Pulley Mechanical Drawing Submitted PART.2.3 - Pulley Manufactured / Purchased PART.5.1 - Motor Purchase Order Submitted PART.5.2 - Motor Acquired PART.5.3 - Motor Mounted in Motor Mount	72.73%
MCS / TSI / Cooling Fixture Fabricated	PART.3.1 - Fixture Mechanical Drawing Submitted to Machine Shop PART.3.2 - Fixture Fabricated PART.3.3 - Fixture Mounted in Dyno Room		100.00%	PART.3.1 - Fixture Mechanical Drawing Submitted to Machine Shop PART.3.2 - Fixture Fabricated PART.3.3 - Fixture Mounted in Dyno Room	100.00%

Integration Task	Related WBS Items	In Progress WBS Items	Projected Completion (%)	Completed WBS Items	Actual Completion (%)
GLV Board Manufactured	GLV.1.1 - GLV BoB Circuit Schematic Complete		100.00%	GLV.1.1 - GLV BoB Circuit Schematic Complete	100.00%
	GLV.1.2 - GLV BoB PCB Layout Complete and Approved			GLV.1.2 - GLV BoB PCB Layout Complete and Approved	
	GLV.1.3 - GLV BoB PCB Purchase Order Approved and Submitted			GLV.1.3 - GLV BoB PCB Purchase Order Approved and Submitted	
	GLV.1.4 - GLV BoB Acquired			GLV.1.4 - GLV BoB Acquired	
	GLV.1.5 - GLV BoB Mount Mechanical Drawing Submitted to Machine Shop			GLV.1.5 - GLV BoB Mount Mechanical Drawing Submitted to Machine Shop	
	GLV.1.6 - GLV BoB Mount Fabricated			GLV.1.6 - GLV BoB Mount Fabricated	
	GLV.1.7 - GLV BoB Installed on Mount in Rack in Dyno Room			GLV.1.7 - GLV BoB Installed on Mount in Rack in Dyno Room	
GLV Mounting Plate Manufactured	GLV.1.5 - GLV BoB Mount Mechanical Drawing Submitted to Machine Shop		100.00%	GLV.1.5 - GLV BoB Mount Mechanical Drawing Submitted to Machine Shop	100.00%
	GLV.1.6 - GLV BoB Mount Fabricated			GLV.1.6 - GLV BoB Mount Fabricated	
	GLV.1.7 - GLV BoB Installed on Mount in Rack in Dyno Room			GLV.1.7 - GLV BoB Installed on Mount in Rack in Dyno Room	
Safety Loop Testing Panel Mounted in Dyno Room Rack	GLV.2.1 - Left Side Panel Block Diagram Delivered		100.00%	GLV.2.1 - Left Side Panel Block Diagram Delivered	100.00%
	GLV.2.2 - Left Side Panel BoM Purchase Order Approved and Purchased			GLV.2.2 - Left Side Panel BoM Purchase Order Approved and Purchased	
	GLV.2.3 - Left Side Panel Mechanical Drawing Submitted to Machine Shop			GLV.2.3 - Left Side Panel Mechanical Drawing Submitted to Machine Shop	
	GLV.2.4 - Left Side Panel Fabricated and Wired with Needed Buttons / Switches			GLV.2.4 - Left Side Panel Fabricated and Wired with Needed Buttons / Switches	
	GLV.2.5 - Right Side Panel Block Diagram Delivered			GLV.2.5 - Right Side Panel Block Diagram Delivered	
	GLV.2.6 - Right Side Panel BoM Purchase Order Approved and Purchased			GLV.2.6 - Right Side Panel BoM Purchase Order Approved and Purchased	
	GLV.2.7 - Right Side Panel Mechanical Drawing Submitted to Machine Shop			GLV.2.7 - Right Side Panel Mechanical Drawing Submitted to Machine Shop	
	GLV.2.8 - Right Side Panel Fabricated and Wired with Needed Buttons / Switches			GLV.2.8 - Right Side Panel Fabricated and Wired with Needed Buttons / Switches	
	GLV.2.9 - Left Side Panel Installed in Dyno Room			GLV.6.1 - Dashboard Panel Block Diagram Delivered	
	GLV.2.10 - Right Side Panel Installed in Dyno Room			GLV.6.2 - Dashboard Panel BoM Purchase Order Approved and Purchased	
	GLV.3.1 - Dyno Safety Loop Block Diagram Complete and Submitted			GLV.6.3 - Dashboard Panel Mechanical Drawing Submitted to Machine Shop	
	GLV.3.2 - Dyno Power Supply Safety Loop On/Off Mechanism Delivered			GLV.6.4 - Dashboard Panel Fabricated and Wired with Needed Buttons / Switches	
	GLV.3.3 - Left Side Panel Connected to GLV In Dyno Room			GLV.2.9 - Left Side Panel Installed in Dyno Room	
	GLV.3.4 - Right Side Panel Connected to GLV In Dyno Room			GLV.2.10 - Right Side Panel Installed in Dyno Room	
	GLV.3.5 - Dyno Power Supply Connected to GLV Safety Loop			GLV.3.1 - Dyno Safety Loop Block Diagram Complete and Submitted	
	GLV.6.1 - Dashboard Panel Block Diagram Delivered			GLV.3.2 - Dyno Power Supply Safety Loop On/Off Mechanism Delivered	
	GLV.6.2 - Dashboard Panel BoM Purchase Order Approved and Purchased			GLV.3.3 - Left Side Panel Connected to GLV In Dyno Room	
	GLV.6.3 - Dashboard Panel Mechanical Drawing Submitted to Machine Shop			GLV.3.4 - Right Side Panel Connected to GLV In Dyno Room	
	GLV.6.4 - Dashboard Panel Fabricated and Wired with Needed Buttons / Switches			GLV.3.5 - Dyno Power Supply Connected to GLV Safety Loop	
	GLV.6.5 - Dashboard Panel Installed in Dyno Room			GLV.6.5 - Dashboard Panel Installed in Dyno Room	
Safety Loop Functional In Dyno Room	GLV.3.6 - Demo of Left Side Panel Closing / Opening Safety Loop		100.00%	GLV.3.6 - Demo of Left Side Panel Closing / Opening Safety Loop	100.00%
	GLV.3.7 - Demo of Right Side Panel Closing / Opening Safety Loop			GLV.3.7 - Demo of Right Side Panel Closing / Opening Safety Loop	
	GLV.3.8 - Demo of Safety Loop shutting off the Dyno Power Supply from Safe Distance			GLV.3.8 - Demo of Safety Loop shutting off the Dyno Power Supply from Safe Distance	
	GLV.3.9 - Demo of Dashboard Panel Closing / Opening Safety Loop			GLV.3.9 - Demo of Dashboard Panel Closing / Opening Safety Loop	
	GLV.3.10 - Demo of Dashboard Panel Putting Car / Dyno into Drive Mode			GLV.3.10 - Demo of Dashboard Panel Putting Car / Dyno into Drive Mode	
	GLV.4.8 - GLV and Safety Loop Connected			GLV.4.8 - GLV and Safety Loop Connected	

Integration Task	Related WBS Items	In Progress WBS Items	Projected Completion (%)	Completed WBS Items	Actual Completion (%)
TSI Board Manufactured	TSI.1.1 - TSI Block Diagram Delivered and Approved	TSI.1.10 - TSI PCB Debugged and Complete	100.00%	TSI.1.1 - TSI Block Diagram Delivered and Approved	92.31%
	TSI.1.2 - TSI Circuit Schematic Delivered and Approved			TSI.1.2 - TSI Circuit Schematic Delivered and Approved	
	TSI.1.3 - TSI PCB Layout Complete and Approved			TSI.1.3 - TSI PCB Layout Complete and Approved	
	TSI.1.4 - TSI PCB BoM Purchase Order Approved and Purchased			TSI.1.4 - TSI PCB BoM Purchase Order Approved and Purchased	
	TSI.1.5 - TSI PCB Purchased and Delivered			TSI.1.5 - TSI PCB Purchased and Delivered	
	TSI.1.6 - TSI PCB Populated and Verified			TSI.1.6 - TSI PCB Populated and Verified	
	TSI.1.7 - IMD Installed on TSI PCB			TSI.1.7 - IMD Installed on TSI Mounting Plate	
	TSI.1.8 - Precharge Circuitry Incorporated			TSI.1.8 - Precharge Circuitry Incorporated	
	TSI.1.10 - TSI PCB Debugged and Complete			TSI.1.11 - TSI Mounting Plate Mechanical Drawing Submitted	
	TSI.1.11 - TSI Mounting Plate Mechanical Drawing Submitted			TSI.1.12 - TSI Mounting Plate BoM Purchase Order Approved and Purchased	
	TSI.1.12 - TSI Mounting Plate BoM Purchase Order Approved and Purchased			TSI.1.13 - TSI Base Plate Fabricated, Wired, and Populated	
	TSI.1.13 - TSI Base Plate Fabricated, Wired, and Populated			TSI.1.14 - TSI Base Plate Installed in DYNO Room	
	TSI.1.14 - TSI Base Plate Installed in DYNO Room				
TSI Mounting Plate Manufactured	TSI.1.11 - TSI Mounting Plate Mechanical Drawing Submitted		100.00%	TSI.1.11 - TSI Mounting Plate Mechanical Drawing Submitted	100.00%
	TSI.1.13 - TSI Mounting Plate Fabricated			TSI.1.13 - TSI Mounting Plate Fabricated	
	TSI.1.14 - TSI Installed on Mount in Dyno Room			TSI.1.14 - TSI Installed on Mount in Dyno Room	
TSI Throttle / Brake Control Panel Manufactured	TSI.4.1 - 2017 TSI Test Panel Located		100.00%	TSI.4.1 - 2017 TSI Test Panel Located	100.00%
	TSI.4.2 - Test Panel Fabricated and Wired with Needed Buttons/Switches			TSI.4.2 - Test Panel Fabricated and Wired with Needed Buttons/Switches	
	TSI.4.3 - Test Panel Installed in DYNO Room			TSI.4.3 - Test Panel Installed in DYNO Room	
	TSI.1.11 - TSI Mounting Plate Mechanical Drawing Submitted			TSI.1.11 - TSI Mounting Plate Mechanical Drawing Submitted	
	TSI.1.12 - TSI Mounting Plate BoM Purchase Order Approved and Purchased			TSI.1.12 - TSI Mounting Plate BoM Purchase Order Approved and Purchased	
	TSI.1.13 - TSI Base Plate Fabricated, Wired, and Populated			TSI.1.13 - TSI Base Plate Fabricated	
TSI.1.14 - TSI Base Plate Installed in DYNO Room			TSI.1.14 - TSI Base Plate Installed in DYNO Room		

Integration Task	Related WBS Items	In Progress WBS Items	Projected Completion (%)	Completed WBS Items	Actual Completion (%)
Cooling Loop Filled with Water and Tested For Leaks	COOL.2.1 - Cooling loop filled with water and tested for leaks		100.00%	COOL.2.1 - Cooling loop filled with water and tested for leaks	100.00%
	COOL.2.2 - Leaks in loop identified and repaired			COOL.2.2 - Leaks in loop identified and repaired	
	COOL.2.3 - Cooling System mounted on Fixture in Dyno Room			COOL.2.3 - Cooling System mounted on Fixture in Dyno Room	
Cooling System Mounted on Fixture in Dyno Room	COOL.1.1 - Mechanical Drawing of Mounting Delivered		100.00%	COOL.1.1 - Mechanical Drawing of Mounting Delivered	100.00%
	PART.3.1 - Fixture Mechanical Drawing Submitted to Machine Shop			PART.3.1 - Fixture Mechanical Drawing Submitted to Machine Shop	
	PART.3.2 - Fixture Fabricated			PART.3.2 - Fixture Fabricated	
	PART.3.3 - Fixture Mounted in Dyno Room			PART.3.3 - Fixture Mounted in Dyno Room	
Cooling System Connected to MCS and Motor in Dyno Room	PART.4.1 - Motor Controller Purchase Order Submitted		100.00%	COOL.2.3 - Cooling System Mounted in Dyno Room on Fixture in Dyno Room	100.00%
	PART.4.2 - Motor Controller Acquired			COOL.3.1 - Cooling System Connected to MCS	
	COOL.2.3 - Cooling System Mounted in Dyno Room			COOL.3.3 - Cooling System Moving Water to All Connected Systems	
	COOL.3.1 - Cooling System Connected to MCS			PART.4.1 - Motor Controller Purchase Order Submitted	
	COOL.3.3 - Cooling System Moving Water to All Connected Systems			PART.4.2 - Motor Controller Acquired	
	PART.5.1 - Motor Purchase Order Submitted			PART.5.1 - Motor Purchase Order Submitted	
	PART.5.2 - Motor Acquired			PART.5.2 - Motor Acquired	
	PART.5.3 - Motor Mounted in Motor Mount			PART.5.3 - Motor Mounted in Motor Mount	
Cooling System Connected to TSI in Dyno Room	COOL.2.3 - Cooling System Mounted in Dyno Room	TSI.1 - TSI Board Delivered	100.00%	PART.3.1 - Fixture Mechanical Drawing Submitted to Machine Shop	80.00%
	TSI.1 - TSI Board Delivered			COOL.2.3 - Cooling System Mounted in Dyno Room	
	PART.3.1 - Fixture Mechanical Drawing Submitted to Machine Shop			PART.3.2 - Fixture Fabricated	
	PART.3.2 - Fixture Fabricated			PART.3.3 - Fixture Mounted in Dyno Room	
	PART.3.3 - Fixture Mounted in Dyno Room				

Integration Task	Related WBS Items	In Progress WBS Items	Projected Completion (%)	Completed WBS Items	Actual Completion (%)
TSV Packs Manufactured	TSV.1.1 - Pack High Level Electrical Block Diagram Delivered and Accepted	TSV.1.2 - Pack Mechanical Drawing Submitted and Accepted	30.00%	TSV.1.1 - Pack High Level Electrical Block Diagram Delivered	10.00%
	TSV.1.2 - Pack Mechanical Drawing Submitted and Accepted	TSV.1.3 - Pack BoM Purchase Order Approved and Purchased			
	TSV.1.3 - Pack BoM Purchase Order Approved and Purchased				
	TSV.1.4 - Pack 1 Enclosure Fabricated				
	TSV.1.5 - Pack 2 Enclosure Fabricated				
	TSV.1.6 - Pack Testing Plan Submitted and Approved				
	TSV.1.7 - Pack 1 Populated and Verified with Testing Plan				
	TSV.1.8 - Pack 2 Populated and Verified with Testing Plan				
	TSV.1.9 - Demo of Pack 1 Functionality with Testing Plan				
	TSV.1.10 - Demo of Pack 2 Functionality with Testing Plan				
TSV Packs Connected to Motor Controller in Dyno Room	WIRE.3.11 - TSV - Motor Controller Connected	None	0.00%	None	0.00%
TSV CellMen Boards Fabricated	TSV.2.1 - CellMen Block Diagram Delivered and Approved	TSV.2.4 - CellMen BoM Purchase Order Approved and Purchased	33.33%	TSV.2.1 - CellMen Block Diagram Delivered and Approved	22.22%
	TSV.2.2 - CellMen Circuit Schematic Delivered and Approved			TSV.2.2 - CellMen Circuit Schematic Delivered and Approved	
	TSV.2.3 - CellMen PCB Layout Complete and Approved				
	TSV.2.4 - CellMen BoM Purchase Order Approved and Purchased				
	TSV.2.5 - CellMen Purchased and Delivered				
	TSV.2.6 - CellMen Boards Populated and Verified				
	TSV.2.7 - 1st CellMen Board Debugged and Tested				
	TSV.2.8 - CellMen Testing Plan Delivered				
	TSV.2.9 - CellMen Boards Debugged and Tested				
TSV PackMan Boards Fabricated	TSV.3.1 - PackMan Block Diagram Delivered and Approved	TSV.3.1 - PackMan Block Diagram Delivered and Approved	25.00%	None	0.00%
	TSV.3.2 - PackMan Circuit Schematic Delivered and Approved	TSV.3.2 - PackMan Circuit Schematic Delivered and Approved			
	TSV.3.3 - PackMan PCB Layout Complete and Approved				
	TSV.3.4 - PackMan BoM Purchase Order Approved and Purchased				
	TSV.3.5 - PackMan Purchased and Delivered				
	TSV.3.6 - PackMan Populated and Verified				
	TSV.3.7 - PackMan Testing Plan Delivered				
	TSV.3.8 - PackMan Boards Debugged and Tested				
TSV SegMan Boards Fabricated	TSV.4.1 - SegMan Block Diagram Delivered and Approved	TSV.4.1 - SegMan Block Diagram Delivered and Approved	28.57%	None	0.00%
	TSV.4.2 - SegMan Circuit Schematic Delivered and Approved	TSV.4.2 - SegMan Circuit Schematic Delivered and Approved			
	TSV.4.3 - SegMan PCB Layout Complete and Approved				
	TSV.4.4 - SegMan Purchased and Delivered				
	TSV.4.5 - SegMan Populated and Verified				
	TSV.4.6 - SegMan Testing Plan Delivered				
	TSV.4.7 - SegMan Boards Debugged and Tested				
TSV Powering Motor via Motor Controller	WIRE.3.11 - TSV - Motor Controller Connected	None	0.00%	None	0.00%

Integration Task	Related WBS Items	In Progress WBS Items	Projected Completion (%)	Completed WBS Items	Actual Completion (%)
SCADA Recording Data and Writing to a File	SCADA.1.2 - SCADA Collecting Data From Subsystems and Writing Data to File SCADA.1.3 - SCADA Writing Raw and Calibrated Data to Database	SCADA.5.2 - VSCADA Receiving Data from Cooling System	100.00%	SCADA.1.2 - SCADA Collecting Data From Subsystems and Writing Data to File SCADA.1.3 - SCADA Writing Raw and Calibrated Data to Database	85.71%
	SCADA.2.2 - VSCADA Receiving Data from TSI Sensors			SCADA.2.2 - VSCADA Receiving Data from TSI Sensors	
	SCADA.3.2 - SCADA Receiving Data from GLV Sensors			SCADA.3.2 - VSCADA Receiving Data from GLV Sensors	
	SCADA.4.2 - VSCADA Receiving Data from MCS Sensors			SCADA.4.2 - VSCADA Receiving Data from MCS Sensors	
	SCADA.5.2 - VSCADA Receiving Data from Cooling System			SCADA.7.3 - SCADA Logging Data with Timestamps	
	SCADA.7.3 - SCADA Logging Data with Timestamps				
SCADA Displaying Data to Rack Monitor in Dyno Room	SCADA.1.1 - Individual Data Acquisition Tests Performed Showing Data SCADA.1.2 - SCADA Collecting Data From Subsystems and Writing Data to File SCADA.1.3 - SCADA Writing Raw and Calibrated Data to Database SCADA.1.4 - Demo of SCADA Collecting Data and Displaying Meaningfully to Viewer	None	75.00%	SCADA.1.2 - SCADA Collecting Data From Subsystems and Writing Data to File SCADA.1.3 - SCADA Writing Raw and Calibrated Data to Database SCADA.1.4 - Demo of SCADA Collecting Data and Displaying Meaningfully to Viewer	75.00%
SCADA Communicating with GLV in Dyno Room	SCADA.3.1 - VSCADA and GLV Connected via CAN and GPIO SCADA.3.2 - VSCADA Receiving Data from GLV Sensors SCADA.3.3 - VSCADA Sends Warnings for Error Sensor Data GLV.1.7 - GLV BoB Installed on Mount in Rack in Dyno Room		100.00%	SCADA.3.1 - VSCADA and GLV Connected via CAN and GPIO SCADA.3.2 - VSCADA Receiving Data from GLV Sensors SCADA.3.3 - VSCADA Sends Warnings for Error Sensor Data GLV.1.7 - GLV BoB Installed on Mount in Rack in Dyno Room	100.00%
SCADA Communicating with TSI in Dyno Room	SCADA.2.1 - VSCADA and TSI Connected via CAN SCADA.2.2 - VSCADA Receiving Data from TSI Sensors SCADA.2.3 - VSCADA Transmitting Cruise Control Information TSI.1.13 - TSI Installed on Mount in Dyno Room		75.00%	SCADA.2.1 - VSCADA and TSI Connected via CAN SCADA.2.2 - VSCADA Receiving Data from TSI Sensors TSI.1.13 - TSI Installed on Mount in Dyno Room	75.00%
SCADA Communicating with Motor Controller in Dyno Room	SCADA.4.1 - VSCADA and MCS Connected via CAN SCADA.4.2 - VSCADA Receiving Data from MCS Sensors SCADA.4.3 - SCADA Outputs a Throttle Control to the Motor Controller PART.4.2 - Motor Controller Acquired	SCADA.4.3 - SCADA Outputs a Throttle Control to the Motor Controller	100.00%	PART.4.2 - Motor Controller Acquired SCADA.4.1 - VSCADA and MCS Connected via CAN SCADA.4.2 - VSCADA Receiving Data from MCS Sensors	75.00%

Integration Task	Related WBS Items	In Progress WBS Items	Projected Completion (%)	Completed WBS Items	Actual Completion (%)
Dyno Room Testing Plan Complete	TEST.1.1 - List of tests to be performed on motor detailed with specific desired outcomes printed TEST.1.2 - Risk assessment of each test for motor produced with solution plan for failure TEST.2.1 - List of tests to be performed on GLV detailed with specific desired outcomes printed TEST.2.2 - Risk assessment of each test for GLV produced with solution plan for failure TEST.3.1 - List of tests to be performed on TSI detailed with specific desired outcomes printed TEST.3.2 - Risk assessment of each test for TSI produced with solution plan for failure TEST.5.1 - List of tests to be performed on SCADA detailed with specific desired outcomes printed TEST.5.2 - Risk assessment of each test for SCADA produced with solution plan for failure TEST.6.1 - List of tests to be performed on Full Dyno detailed with specific desired outcomes printed TEST.6.2 - Risk assessment of each test for Full Dyno produced with solution plan for failure	TEST.1.1 - List of tests to be performed on motor detailed with specific desired outcomes printed and posted in Test Plan Binder TEST.1.2 - Risk assessment of each test for motor produced with solution plan for failure TEST.2.1 - List of tests to be performed on GLV detailed with specific desired outcomes printed and posted in Test Plan Binder TEST.2.2 - Risk assessment of each test for GLV produced with solution plan for failure TEST.3.1 - List of tests to be performed on TSI detailed with specific desired outcomes printed and posted in Test Plan Binder TEST.3.2 - Risk assessment of each test for TSI produced with solution plan for failure TEST.5.1 - List of tests to be performed on SCADA detailed with specific desired outcomes printed and posted in Test Plan Binder TEST.5.2 - Risk assessment of each test for SCADA produced with solution plan for failure TEST.6.2 - Risk assessment of each test for Full Dyno produced with solution plan for failure	100.00%	TEST.6.1 - List of tests to be performed on Full Dyno detailed with specific desired outcomes printed and posted in Test Plan Binder	10.00%
Dyno Room Wiring Diagram Complete	WIRE.1.1 - Dyno Room Wiring Diagram Complete WIRE.1.2 - Dyno Room Wiring Diagram Printed and Posted in AEC 400 WIRE.1.3 - Dyno Room Wiring Diagram Printed and Posted in AEC 134	None	100.00%	WIRE.1.1 - Dyno Room Wiring Diagram Complete WIRE.1.2 - Dyno Room Wiring Diagram Printed and Posted in AEC 400 WIRE.1.3 - Dyno Room Wiring Diagram Printed and Posted in AEC 134	100.00%
All Connecting Wires Produced with Correct Connector Types	WIRE.2.1 - Full Wiring BOM Submitted and Approved WIRE.2.2 - Full Wiring BOM Purchase Order Submitted and Approved WIRE.2.3 - TSI - MCS Wires Complete WIRE.2.4 - TSI - Cooling Wires Complete WIRE.2.5 - TSI - Pedal Throttle Fixture Wires Complete WIRE.2.6 - TSI - Test Panel Wires Complete WIRE.2.8 - GLV - Safety Loop Wires Complete WIRE.2.9 - GLV - TSI Wires Complete WIRE.2.10 - GLV - Cooling Wires Complete WIRE.2.12 - Safety Loop Panels - Dyno Supply Wires Complete		100.00%	WIRE.2.1 - Full Wiring BOM Submitted and Approved WIRE.2.2 - Full Wiring BOM Purchase Order Submitted and Approved WIRE.2.3 - TSI - MCS Wires Complete WIRE.2.4 - TSI - Cooling Wires Complete WIRE.2.5 - TSI - Pedal Throttle Fixture Wires Complete WIRE.2.6 - TSI - Test Panel Wires Complete WIRE.2.8 - GLV - Safety Loop Wires Complete WIRE.2.9 - GLV - TSI Wires Complete WIRE.2.10 - GLV - Cooling Wires Complete WIRE.2.12 - Safety Loop Panels - Dyno Supply Wires Complete	100.00%
All Subsystems fully wired in Dyno Room	WIRE.3.1 - TSI - MCS Connected WIRE.3.2 - TSI - Cooling Connected WIRE.3.3 - TSI - Pedal Throttle Fixture Connected WIRE.3.4 - TSI - Test Panel Connected WIRE.3.6 - GLV - Safety Loop Connected WIRE.3.7 - GLV - TSI Connected WIRE.3.8 - GLV - Cooling Connected WIRE.3.10 - Safety Loop Panels - Dyno Supply Connected WIRE.3.12 - MCS and Motor Connected WIRE.3.13 - Cooling System and Motor Connected WIRE.3.14 - Cooling System and MCS Connected		100.00%	WIRE.3.1 - TSI - MCS Connected WIRE.3.2 - TSI - Cooling Connected WIRE.3.3 - TSI - Pedal Throttle Fixture Connected WIRE.3.4 - TSI - Test Panel Connected WIRE.3.6 - GLV - Safety Loop Connected WIRE.3.7 - GLV - TSI Connected WIRE.3.8 - GLV - Cooling Connected WIRE.3.10 - Safety Loop Panels - Dyno Supply Connected WIRE.3.12 - MCS and Motor Connected WIRE.3.13 - Cooling System and Motor Connected WIRE.3.14 - Cooling System and MCS Connected	100.00%
All Tests According to Test Plan Run in Dyno Room	TEST.1.3 - Tests performed on motor according to testing plan TEST.1.4 - Testing Analysis of Motor Testing Data complete and submitted TEST.1.5 - Retesting of Motor following adjustments to meet desired test outcomes TEST.2.3 - Tests performed on GLV according to testing plan TEST.2.4 - Testing Analysis of GLV Testing Data complete and submitted TEST.2.5 - Retesting of GLV following adjustments to meet desired test outcomes TEST.3.3 - Tests performed on TSI according to testing plan TEST.3.4 - Testing Analysis of TSI Testing Data complete and submitted TEST.3.5 - Retesting of TSI following adjustments to meet desired test outcomes TEST.5.3 - Tests performed on SCADA according to testing plan TEST.5.4 - Testing Analysis of SCADA Testing Data complete and submitted TEST.5.5 - Retesting of SCADA following adjustments to meet desired test outcomes TEST.6.3 - Tests performed on Full Dyno according to testing plan TEST.6.4 - Testing Analysis of Full Dyno Testing Data complete and submitted TEST.6.5 - Retesting of Full Dyno following adjustments to meet desired test outcomes	TEST.1.3 - Tests performed on motor according to testing plan TEST.1.4 - Testing Analysis of Motor Testing Data complete and submitted TEST.1.5 - Retesting of Motor following adjustments to meet desired test outcomes TEST.2.3 - Tests performed on GLV according to testing plan TEST.2.4 - Testing Analysis of GLV Testing Data complete and submitted TEST.2.5 - Retesting of GLV following adjustments to meet desired test outcomes TEST.3.3 - Tests performed on TSI according to testing plan TEST.3.4 - Testing Analysis of TSI Testing Data complete and submitted TEST.3.5 - Retesting of TSI following adjustments to meet desired test outcomes TEST.5.3 - Tests performed on SCADA according to testing plan TEST.5.4 - Testing Analysis of SCADA Testing Data complete and submitted TEST.5.5 - Retesting of SCADA following adjustments to meet desired test outcomes TEST.6.3 - Tests performed on Full Dyno according to testing plan TEST.6.4 - Testing Analysis of Full Dyno Testing Data complete and submitted TEST.6.5 - Retesting of Full Dyno following adjustments to meet desired test outcomes	100.00%		0.00%