

Project Status Letter

PSL Number 14-ALL-GG

Covering period from 4/23/16 to 4/29/16

Prepared by: ECE 492 Design Team

Tasks that have been completed in the previous week:

Team - Calibration and Accuracy Report submitted and accepted

TSV - mechanical for cells all together (control panel, packMan installed, wiring done)

GLV - TSI HV Isolator soldered, all system panels fabricated

VSCADA - Controllable view completed, Tractive System Manager completed, Measurements + controllables broadcast, Tractive System Controllable completed, Web API finalized client + server

MCM - data analysis complete for efficiency/cooling, templates written for dynamic and efficiency/cooling reports

Tasks ongoing

GLV - Wiring for full system, TSI Isolator board validation, TSI HV section assembly

VSCADA - Lock systems developed, write log parser, graph takes J object, software integration with dynamometer setup, safety manager software written, Touchscreen drivers implemented

TSV - writing software for PackMan board, state of charge algorithm report, pack internal cabling, integrating pack

MCM - characterization data analysis, writing dynamic characterization report, writing efficiency/cooling report, Mathematical and Simulink models

Tasks due to be complete next week.

Team - All ATP integration tests complete

TSV - integrated pack to be delivered, state of charge report delivered

GLV - Wiring for full system, TSI Isolator board validated, TSI HV section assembly completed

MCM - characterization data analysis, writing dynamic characterization report, writing efficiency/cooling report, Mathematical and Simulink models

VSCADA - Lock systems developed, write log parser, graph takes J object, software integration with dynamometer setup, safety manager software written, Touchscreen drivers implemented

Overdue tasks

VSCADA - Lock systems developed, write log parser, graph takes J object, software integration with dynamometer setup, safety manager software written, Touchscreen drivers implemented

TSV - integrated pack to be delivered, state of charge report delivered

MCM - characterization data analysis, writing dynamic characterization report, writing efficiency/cooling report, Mathematical and Simulink models

GLV - Wiring for full system, TSI Isolator board validated, TSI HV section assembly completed

Cost Summary

Budget Category	New This Period	Total Spent to Date	Budget Remaining	Total Budget
TSV	\$0	\$832.76	\$17.24	\$850
GLV	\$6.00	\$856.49	\$43.51	\$900
VSCADA	\$0	\$280.17	\$119.83	\$400
Cabling	\$129.17	\$413.95	-\$113.95	\$300
MCM (Motor Char. + Model)	\$0	\$0	\$250	\$250
Shipping	\$0	\$297.74	\$2.26	\$300
Totals	\$135.17	\$2,673.43	\$326.57	\$3000

Receiving Reports

- McMaster-Carr (9 items) (Appendix I)
- Digi-Key (26 items) (Appendix II)
- Newark (6 items) (Appendix III)

Purchase Requests

- Amazon (2 items) (Appendix IV)
- WireCare (6 items) (Appendix V)

Appendix I :

#	Quantity	Vendor Part	Description	Unit Price	Total Price	Rcvd
ECE Department Material Request						
Course: ECE 492			Req Number: 022			
Professor: Nadovich/Yu						
Requested By: Joseph Cericola on behalf of Timothy Andrews			Vendor: McMaster-Carr			
Requested Date: 22-Apr-16			Web Site: www.mcmaster.com			
Ship By: Ground			Phone: (609) 259-8900			
1	1	7113K32	Ring Terminal 12-10A WG 3/8" (pack of 25)	\$7.26	\$7.26	25-Apr-16
2	1	69145K66	Spade Terminal 22-18A WG #6 (pack of 100)	\$13.67	\$13.67	25-Apr-16

3	1	7060K26	Insulated Barrel Quick Connector 22-18AWG Male (pack of 100)	\$11.96	\$11.96	25-A pr-16
4	1	7480T11	Emergency Stop Switch with Panel Cutout	\$28.71	\$28.71	25-A pr-16
5	1	89015K48	6061 Aluminum Sheet 24"x24"x1/8"	\$79.97	\$79.97	25-A pr-16
6	1	8082K14	Continuous-Flex Unshielded Cable, 12 Wires, 20AWG (30')	\$57.60	\$57.60	25-A pr-16
7	1	7343K184	Toggle Switch 1/4" Quick Connector SPST	\$6.53	\$6.53	25-A pr-16
8	1	8560K261	Acrylic Sheet 24"x36"x1/8" Clear	\$33.24	\$33.24	25-A pr-16
9	2	85635K451	Acrylic Sheet 12"x24"x1/8"	\$14.37	\$28.74	25-A pr-16

			Semi-Clear Red			
10						\$0.00
					Shipping Fees	
					Grand Total:	\$267.68
		Instructor Approval:				
		Department Approval:				
		(Over \$500)				

Appendix II:

#	Quantity	Vendor Part	Description	Unit Price	Total Price	Rcvd
ECE Department Material Request						
Course: ECE 492			Req Number : 021			
Professor: Nadovich/Yu						
Requested By: Joseph Cericola on behalf of Timothy Andrews			Vendor: Digi-Key			
Requested Date: 21-Apr-16			Web Site www.digikey.com			
Ship By: Ground			Phone 1-800-344-4539			
1	4	WM2803-ND	Molex 5-Pos Connector Housing	\$0.4700	\$1.88	26-Apr-16
2	10	296-29034-1-ND	Texas Instruments Current Monitor	\$3.0870	\$30.87	26-Apr-16
3	2	Q503-ND	Qualtek Panel	\$2.2300	\$4.46	26-Apr-16

			Mount Circuit Breake r			
4	50	P10.0KFCT-ND	Panasonic 10KOhm 1% Chip Resistor 1206	\$0.028 2	\$1.41	26-A pr-16
5	4	P120FCT-ND	Panasonic 120Ohm 1% Chip Resistor 1206	\$0.100 0	\$0.40	26-A pr-16
6	50	P2.00KHCT-ND	Panasonic 2KOhm 1% Chip Resistor 0603	\$0.011 4	\$0.57	26-A pr-16
7	50	P3.00KHCT-ND	Panasonic 3KOhm 1% Chip Resistor 0603	\$0.011 4	\$0.57	26-A pr-16
8	10	490-7202-1-ND	Murata 10uF 25V Ceramic Cap 0603	\$0.315 0	\$3.15	26-A pr-16
9	10	490-12737-1-ND	Murata 22uF 25V Ceramic Cap 0603	\$0.315 0	\$3.15	26-A pr-16
10	25	311-1343-1-ND	Yageo 0.1uF 50V Cerami	\$0.012 8	\$0.32	26-A pr-16

			c Cap 0603			
1 1	10	311-1186-1-ND	Yageo 330pF 50V Cerami c Cap 0603	\$0.048 0	\$0.48	26-A pr-16
1 2	6	445-2304-1-ND	TDK 1uF 250V Cerami c Cap 2220	\$1.250 0	\$7.50	26-A pr-16
1 3	2	WM3789CT-ND	Molex 6-Pos Vertica l Surfac e Mount RJ12 Recept acle	\$1.160 0	\$2.32	26-A pr-16
1 4	1	1470-3083-5-ND	XP Power DC/DC Conver ter 12V 665mA	\$39.00 00	\$39.00	26-A pr-16
1 5	2	AZ1117CH-5.0TRG1DICT-ND	Diodes Incorp orated Linear Volutag e Regula tor 5V 0.8A	\$0.380 0	\$0.76	26-A pr-16
1 6	2	MCP6001T-I/OTCT-ND	Microc hip Techno logy Low-P ower Op Amp	\$0.240 0	\$0.48	26-A pr-16

			SOT-2 3-5			
1 7	3	TLP2361(TPLECT-ND	Toshib a 3.75KV Optois olator	\$1.100 0	\$3.30	26-A pr-16
1 8	3	296-38822-5-ND	Texas Instru ments Isolati on Amplifi er	\$5.720 0	\$17.16	26-A pr-16
1 9	3	516-2578-5-ND	Broadc om Optical ly Isolate d Votlag e Sensor	\$5.670 0	\$17.01	26-A pr-16
2 0	4	A111927-ND	TE Connec tivity 10-Pos Connec tor Recept acle, Panel Mount	\$0.270 0	\$1.08	26-A pr-16
2 1	4	A30594-ND	TE Connec tivity 10-Pos Connec tor Plug, Free Hangin g	\$0.270 0	\$1.08	26-A pr-16
2 2	5	CWI502-ND	CW Panel Mount LED Green 14V	\$3.300 0	\$16.50	26-A pr-16

Appendix III:

#	Quantity	Vendor Part	Description	Unit Price	Total Price	Rcvd
ECE Department Material Request						
Course: ECE 492			Req Number : 020			
Professor: Nadovich/Yu						
Requested By: Joseph Cericola on behalf of Timothy Andrews			Vendor: Newark			
Requested Date: 21-Apr-16			Web Site www.newark.com			
Ship By: Ground			Phone 1 800 463 9275			
1	1	08J0991	Omron 10A 24V G2RS DPDT Relay	\$17.27	\$17.27	25-Apr-16
2	6	67K9453	Omron Relay Socket	\$3.80	\$22.80	25-Apr-16

Appendix IV:

#	Quantity	Vendor Part	Description	Unit Price	Total Price	Rcvd
ECE Department Material Request						
Course: ECE 492			Req Number : 023			
Professor: Nadovich/Yu						
Requested By: Joseph Cericola on behalf of Timothy Andrews			Vendor: Amazon			
Requested Date: 25-Apr-16			Web Site: www.amazon.com			
Ship By: Ground			Phone: 1-734-414-0900			
1	1	B0032JJS50	12" X 24" 6 Sheets of Matte Black Permanent Adhesive-Backed Vinyl	\$12.31	\$12.31	
2	1	B00511QVVK	Inlet Male Power Socket with	\$6.00	\$6.00	

Appendix V:

#	Quantity	Vendor Part	Description	Unit Price	Total Price	Rcvd
ECE Department Material Request						
Course: ECE 492			Req Number: 024			
Professor: Nadovich/Yu						
Requested By: Joseph Cericola on behalf of Timothy Andrews			Vendor: WireCare			
Requested Date: 27-Apr-16			Web Site: www.wirecare.com			
Ship By: Ground			Phone: 973-300-9782			
1	2	DT04-4P-L012	Deutsc h DT 4-Pin Recept acle, Gray Flange	\$7.970	\$15.94	
2	2	DT04-12PA-L012	Deutsc h DT 12-Pin Recept acle, A Key Gray Flange	\$13.430	\$26.86	

		Department Approval:				
		(Over \$500)				