Acceptance Test Plan First Draft

Test #	Integrated Test Description	Demonstrates Requirements	What Makes Test Successful	Relevant QA tests
1	VSCADA talks to PAC-MAN, reading/setting values and displaying calibrated output data	R001b, R001c, R001d R002a, R002c, R002d, R002e, R002g, R002l, R002m	Integrated system functions as expected and we receive similar results to that of individual QA tests. VSCADA values match values read on pack display, navigated to through on pack controls.	• QAR001b1 • QAR001b2 • QAR001b3 • QAR001b4 • QAR001b5 • QAR001b6 • QAR001c1 • QAR001c2 • QAR001d1 • QAR001d2 • QAR001d3 • QAR001d4 • QAR002a1 • QAR002a2 • QAR002a3 • QAR002g1 • QAR002l1 • QAR002m1 • QAR002m2
2	Safety loop Demonstration	R001c R002b, R002k, R002o R003b, R003c, R003d	The safety loop shuts down under required conditions, such as when a BRB has been pressed, and an event is logged in the VSCADA, and the TSV and GLV voltages are nowhere near each other	• QAR001c • QAR002b1 • QAR002b2 • QAR002k1 • QAR002o1 • QAR003b1 • QAR003c1 • QAR003d1 • QAR003d2
3	GLV ON/OFF Demonstration	R003c, R003d, R003f	While the safety loop is closed the GLV systems should be able able to be	• QAR003c1 • QAR003d3 • QAR003e1

			turned on. This demonstration will also include the connection and disconnection to TSV systems. (Engage/Disengage Motor/Motor Controller)	• QAR003f1
4	Have someone with little prior knowledge of the VSCADA system setup and add a new sensor referencing documentation.	R002p,R002q	Functioning sensor is added with little complaint from user	• QAR002p1
5	Have someone with little prior knowledge of the TSV system charge an accumulator, referencing documentation.	R001a, R001e, R001f, R002j	User successfully charges accumulator.	• QAR001a1 • QAR001a2 • QAR001a3 • QAR001e1 • QAR001e2 • QAR001e3 • QAR001f1 • QAR001f2 • QAR001f3 • QAR002j1
6	Use automated script to run through test throttle values and log data output from motor	R002f, R002h, R002i, R002l, R002m, R002n R003e, R003f	The throttle is set to the values we have planned at the proper time and in the proper sequence Throttle responds to VSCADA control matching those of QAR002f1 Data viewed in the logs and graphs is representative of what is observed and backed up by QAR002m QA tests	• QAR002f1 • QAR002h1 • QAR002l1 • QAR002m2 • QAR002n1 • QAR003e1 • QAR003e2 • QAR003f1
7	Use logged data to compare with values for	R005a, R005b, R005c	Simulated data closely	• QAR005a1

	motor model and simulations	R006a, R006b, R006c	matches the data recorded for the system.	• QAR005a2 • QAR005b1 • QAR005b2 • QAR005c1 • QAR005c2 • QAR006a1 • QAR006b1 • QAR006b2 • QAR006c1
8	Test connectivity system circuits	R001c R003c R004a	System circuits operate properly and different interfacing devices exert proper control over the system.	• QAR001c1 • QAR001c2 • QAR003c1 • QAR004a1