## 600 VOLT ELECTRICAL SEQUENCE TESTS

## FOR SLPS PCC 1743

1.	Initial Setup Control Handle: Reverse, Handle Out Position, Motor Contacts Isolated
	Brake On
	Doors closed or Bypass Switch closed Terminal 3 of ABR jumpered to ABR body (Optional)
2.	600 Volts Connected, Battery and MG Switch On, Deadman down B1, B2, C2, FS1 closed
	KM Arm at A Position
•	al down (and brake pedal up, deadman down), LB1 picks, which completes LB2 circuit. 600V from contact on LB1 picks up C1. C2 picks up if power pedal is down far enough. All other contactors are
Arm moves contact and	A->B under control of the ABR. When it reaches B, B3 picks up and then sticks in via its own NO d the 8 ohm current-limiting resistor. B3 has no effect on the power circuit at this time since B1
	s open. However, it pilots LB3 which picks up here. , LB3 is what controls the direction of KM arm movement. It now moves B->A. B3 remains picked up
	3. The FS1-4 contactors pick up at various points as the arm goes back towards A, applying increasing
levels of fie	eld shunting to boost speed.
3.	Press Control Power Pedal Slowly until fully depressed B1, B2, C2, FS1 open LB1 closes LB2 closes
	C1 closes
	C2 closes
	<ul><li>KM Arm starts moving toward B Position</li><li>FS1, FS2 close</li></ul>
	FS3 closes at 23 <sup>rd</sup> bar
	FS4 closes at 46 <sup>th</sup> bar
	B3 and LB3 close at 130 <sup>th</sup> bar KM Arm reverses direction back from B to A Position
	KIVI AITH Teverses direction back from B to A Position
release" cir Opening of This also ca	power pedal is released LB1 stays closed for a split second. This is part of the "cushioned power reuit. C2 opens first, which causes C1 to open, which causes LB1 to open and finally LB2.  LB1 and LB2 prove that power is released. Now the dynamic brake contactors B1 and B2 can close. Justes LB3 to open. B3 is still closed. Control of the KM arm direction is now via B3 because C1 is open osed. With B3 closed, the arm moves A->B under control of the ABR.
4.	Release Power Pedal (Coasting) KM is at A position
	C1, C2, LB1 and LB2 open B1, B2, close
	LB3 opens
	B3 opens when the KM arm reaches 130.  KM Arm reverses direction back from B to A Position
5.	End of test.