Visual Inspection		Sign Off
1.1	Visually confirm there are no power factor correction capacitors on the motor. The motor terminal box must be opened for this check	
1.2	Obtain the proper schematic diagrams for reference	
1.3	Make an overall visual inspection to ensure the drive system has not been damaged during shipment.	
1.4	Verify that all parts are installed and match the type and rating shown on the schematic diagram. (highlight drawings) Items include but are not limited to circuit boards, circuit breakers, CT's and fuses	
1.5	Verify suitable labeling for all unit devices and components	

Mechanical Inspection and Device Operation Check		Sign Off
2.1	Ensure the cable and connector assemblies are routed properly. Check for proper cable termination, check bus bar torque marks and for shipping damage in both the transformer and inverter sections.	
2.2	Verify phase to phase and phase to ground wiring clearances. Make sure they are orientated for maximum clearance from adjacent circuits.	
2.3	Inspect printed circuit boards for component leads that may be touching. Check to ensure all connectors are properly seated, perform tug and pull on all control wiring.	
2.4	Manually exercise all relays, switches and other mechanical devices to ensure that they operate freely. Operate the JK starter Isolation switch handle to ensure proper operation. Adjust and lubricate if needed.	
2.5	Use vacuum cleaner to remove all metal chips from the drive cabinet. Metal chips may be present due to site cabling work. Any foreign material can result in drive failure.	

Power Off Ohmmeter Test		Sign Off
3.1	Visually inspect the input transformer secondary windings to the corresponding rectifier group.	
3.2	Visually inspect power module to rectifier and power module to dv/dt filter interconnect.	
3.3	Visually verify ACN buss bar to the ground fault circuit resistor, GDI board and ground connections to board.	
3.4	Visually verify U, V, and W Power Module output to VFD output terminals, bypass contactor or other device.	
3.5	Check to ensure input fusing is correct.	
3.6	Use an Ohmmeter to perform point to point test of all current transformers (CT & HCT) verifying phasing and continuity. An open circuit can cause damage to the drive.	
3.7	Check the impedance of power supply leads at the power supply outputs; investigate any circuits that are low. Also check each power supply out put to ground ensuring there are no connections.	
3.8	Verify all inputs to the XIO board from the terminal strip TB2 by manually operating relays, switches and checking continuity.	
3.9	Verify the analog input and output connections between the XIO card and the associated transducer.	
4.0	Check the continuity of the transducer power input connection from the CPT.	
4.1	Verify the transducer power and signal configuration dip switch settings per the drawings.	
4.2	Check to ensure the tightness of fuse clips on PT’s. (Remove the fuse and check the tightness of Phillips head screws.)	
4.3	Verify correct connections of the XIO card interface terminals to external devices such as a resolver, speed sensor or motor RTD’s.	

Control Power Test		Sign Off
5.1	Check N15 (TB 8&5), Check P15 (TB1&4) these are supply for the Hall CT's (HCT) terminal block TB - HCT. (Acceptable values are 14.25 to 15.75 for pos. & neg.)	
5.2	Check 10 VAC at CN1 pins 4&5 on the PDM board for CPSF signal.	
5.3	Check 10 VAC at CN1 pins 1, 2 and 3 on the PDM board for Vac_FBK signal.	
5.4	Check 24VDC @ CN2A, B pins 1&2 on the XIO board (acceptable values are 20.8 to 27.4)	
5.5	Check cooling fan rotation, remember the drive pulls air in the bottom through the aluminum air filters and blows it out the top.	

Verify Power Supply Values					
Test Point	**Power Supply**	**P15**	**N15**	**P5**	**Sign Off**
Regulated Value	**VDC**	**14.25 to 15.75**	**- 15.75 to -14.75**	**4.9 to 5.2**	X
Actual Value	X				