Clogged Eductor Fix

When faced with nuisance eductor filter clog alarms after validating all parameters are in line, the following temporary protocol should be employed until the final solution is delivered to the field.

- Reset the trip and capture history prints - send to PTS for evaluation
- Validate eductor clog trip settings of 15 degrees and 30 minutes. If these settings have been altered, or incorrect, reset to the above numbers. If you have previously installed ball valves around the eductor, validate that they are all in their full open position.
- Run the machine to 200 Hz or max speed and observe eductor differential temperature on the panel. If after 15 minutes, the eductor temperature differential is less than 15 degrees turn the machine off properly and proceed with lock out tag out of the machine.
- The eductor temperature sensor is located on the small line connecting the eductor block to the large steel evaporator suction line. Remove the sensor by carefully slitting the insulation then loosening the sensor clamps. Repair the insulation with black electrical tape.
- Relocate the eductor temperature sensor to the straight section of the steel evaporator suction line (the section connected to the cooler), just upstream of the 90 degree elbow. To do this, make a small slit in the black electrical tape at the insulation joint, then completely insert the sensor between the insulation and the surface of the steel evaporator suction line. Ensure the entire length of the sensor contacts the steel suction line. Secure the sensor in the new location and cover the slit with black electrical tape.
- Perform this on both systems.
- Start machine and observe operation validating eductor temperature differentials on both circuits as less than 3 degrees.