



Arctic Controls, Inc.

June 9, 2011

National Recognized Testing Lab (NRTL) Listings

The following discussion is regarding the NRTL listing for the State of Alaska.

1. The State of Alaska and U.S. Department of Occupational and Safety (OSHA) has adopted the National Electric code (NFPA 70) into LAW.
2. The National Electric Code (NFPA 70) mandates that all electrical components be listed or labeled by a Nationally Recognized Testing Laboratory (NRTL) or that electrical components be approved for installation by the "Authority having Jurisdiction" (e.g. Alaska State Electrical Inspector) on an installation by installation basis. OSHA has certified specific testing agencies as NRTLs. This list is located at the following website: <http://www.osha.gov/dts/otpca/nrtl/>
3. OSHA has adopted a set of standards to which all electrical equipment must be manufactured (many adopted from existing UL and FM standards). This list is located at the following website: <http://www.osha.gov/dts/otpca/nrtl/allstds.html>
4. Some states do not enforce the NRTL laws as strictly as others. The states of Alaska, Oregon, Idaho and California are known to be strict enforcers of the NEC and OSHA electrical laws.
5. In response to my inquiry last year, the Alaska State Electrical Inspector informed me that:
 - a. The State of Alaska has adopted OSHA's NRTL list without modification.
 - b. The State of Alaska has adopted OSHA's List of Test Standards Recognized without modification.
 - c. The State of Alaska prohibits the use of any electrical equipment that is not NRTL labeled with one of the NRTL registered certification marks (i.e. "bugs.") or equivalent NRTL label. (i.e. If a state electrical inspector doesn't see a "bug" on a piece of equipment, he refuses to sign off on the electrical permit inspection and project startup is halted.) The list of authorized NRTL registered certification marks is available at the following website: <http://www.osha.gov/dts/otpca/nrtl/nrtlmrk.html>
6. Some NRTLs have procedures to inspect, certify and label electrical equipment on a case by case basis. I have heard of this being done both by UL, CSA and ETL.
7. Please note that **CSA** listed equipment (tested to a set of Canadian standards by the Canadian Standards Association) is **illegal** to use in the United States, in contrast to **CSA-US** or **CSA-C/US** listed equipment (tested to the OSHA selected standards by the Canadian Standards Association) which are legal to use in the US.
8. **All electrical components** must be NRTL Listed. Regulations (Standards - 29 CFR) PART 1910 Occupational Safety and Health Standards. Section 1926.403(a) Section 1910.303(a), 1910.303(b), 1910.303(b)(1), 1910.303(b)(1)(i), NOTE to Paragraph 1910.300(b)(1)(i) of this Section, and Section 1910.399.