

### **Temperature Calculation for Short-time Load above Bushing Rating**

Further investigation and discussion on temperature calculation for short-time load above bushing rating concluded that it may not be beneficial to change methods at this time. This conclusion was based on the following:

- Lapp's proposed method was based on the finite difference method presented in an IEEE transaction paper (PE-332-OWRD-0-12-1977). This method results in a more accurate result, but needs data that may not be readily available to electric utilities and would be more difficult to use.
- Comparing methods revealed the current IEEE method is only slightly less accurate.
- Current IEEE method is believed to be well accepted by utilities.