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## EEA Maintenance Master Plan - Circuit Breaker Maintenance

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### **SUMMARY**

Empire Electric Association conducts quarterly inspections and records counter operations of all line circuit breakers and sectionalizers. Substation circuit breakers will be inspected, and counter readings will be taken during monthly substation inspections.

### **OBJECTIVE**

To operate a safe and reliable electric system all circuit breakers will be taken out of service periodically for purposes of maintenance. See maintenance required criteria below. At the time of maintenance, oil will be filtered and dielectrically tested to meet 22kV. Interrupting contacts will be visually inspected, if possible, and breaker will be tested to verify proper operation. Each of these items will be completed prior to putting the breaker back into service.

### **BREAKER MAINTENANCE CRITERIA**

#### Line Circuit Breakers

Line mounted oil circuit breakers will be maintained every 5 years or 80 operations, whichever comes first. It is recommended that batteries for electronic line circuit breakers be replaced every 7 years, if applicable. Excessive breaker operation readings may indicate the necessity for possible line patrol to check for problems on the system or possible maintenance to be performed.

#### Substation Circuit Breakers

Circuit breakers operating in EEA substations will be maintained every 3 years or 70 operations, whichever comes first. Excessive breaker operation readings may indicate the necessity for possible line patrol to check for problems on the system or possible maintenance to be performed.

Results of this program are to be reported to and managed by the Line Superintendent of Maintenance.