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| --- | --- | --- | --- | --- |
| **Substation #** | | | **Work Order #** | |
| **Equipment #** | | | **Tested By:** | |
| Nameplate Data | | | | |
|  |  | Frequency | |  |
| Manufacturer |  | BIL | |  |
| Type |  | INT CAP(KA) | |  |
| Serial Number |  | Model Number | |  |
| Rated Amps |  | Close Voltage | |  |
| Rated Volts |  | Trip Voltage | |  |
| Operation Counter As Found |  | As Left | |  |

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| INSPECTIONS Indicate OK for acceptable, N-OK for not acceptable, C for corrected or NA (N-OK or C will require a comment) | | | |
| Breaker Open/Closed Indication |  | Breaker Position Indication |  |
| Spring Charged/Discharged Indication |  | Front Cover |  |
| Inter-Phase Barrier Assembly |  | Primary Disconnect Bushings |  |
| Supports and Insulators |  | Primary Disconnect Fingers |  |
| Current Carrying Parts |  | Secondary Disconnect Plug |  |
| Ground Shoe |  | Breaker Auxiliary Contacts |  |
| Phase A Contact Erosion Indicator |  | Phase A Contact Wipe Indicator |  |
| Phase B Contact Erosion Indicator |  | Phase B Contact Wipe Indicator |  |
| Phase C Contact Erosion Indicator |  | Phase C Contact Wipe Indicator |  |
| Key Interlock |  | Mechanical Interlocks |  |
| Electrical Interlocks |  | Cleanliness |  |
| Evidence of Corona |  | Rust or Corrosion |  |
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| FUNCTION TESTS Indicate OK for acceptable, N-OK for not acceptable, C for corrected or NA (N-OK or C will require a comment) | | | |
| Spring Charging |  | Electric Close |  |
| Manual Close |  | Electric Trip |  |
| Manual Trip |  | Anti-Pump |  |
| Trip Free |  | Operations Counter |  |

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| COMMENTS: |
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| CONTACT RESISTANCE TEST | | | Equipment Log: |  |
| TEST AMPS | PHASE A | PHASE B | PHASE C | |
|  |  |  |  | |
| Test from line side primary contact to load side primary contact. | | | | |

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| INSULATION TEST | | | | Equipment Log | |  |
| TEST POTENTIAL | FREE AIR TEST | PH A TO B+C+Gr. | PH B TO C+A+Gr. | | PH C TO A+B+Gr. | |
|  | mA | mA | mA | | mA | |
| Test with the breaker contacts closed. Determine test potential based on the Maximum Test Potential table below. | | | | | | |
| Maintain the test potential for 1 minute. Record the leakage in mA. | | | | | | |

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| VACUUM INTEGRITY TEST | | | Equipment Log | |  |
| TEST POTENTIAL | PHASE A | PHASE B | | PHASE C | |
|  |  |  | |  | |
| Test with the breaker contacts open. Determine test potential based on the Maximum Test Potential table below. | | | | | |
| Maintain the test potential for 1 minute. Record “Pass” or “Fail” | | | | | |

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| --- | --- | --- | --- | --- |
| MAXIMUM TEST POTENTIALS FOR OVERPOTENTIAL (HIPOT) TESTS | | | | |
|  | AC | | DC | |
| Breaker Voltage Rating | Insulation Test | Vacuum Integrity Test | Insulation Test | Vacuum Integrity Test |
| 5 kV | NA | NA | 20kV | 37kV |
| 13.8 kV | NA | NA | 37kV | 37kV |

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| MAINTENANCE PROCEDURE COMPLETION CHECK LIST | √ |
| Assembly is complete including covers, barriers, flash shields, etc. |  |
| All tools and jumpers are accounted for. |  |
| Breaker is left in the open position with the closing spring discharged. |  |

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| COMMENTS |
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|  | Tested By: | Witnessed By: |
| Name: |  |  |
| Company: |  |  |
| Signature: |  |  |
| Date: |  |  |