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|                  | <b>OPERATING<br/>PROCEDURE<br/>ATTACHMENT A</b> | <b>Procedure No.</b>                      | E-509A  |
|   |   | <b>Version No.</b>                        | 2.4     |
|   |   | <b>Effective Date</b>                     | 5/08/09 |
| <b>Allowable Transmission Maintenance Activities<br/>During Restricted Maintenance Operations</b> |   | <b>Distribution Restriction:<br/>None</b> |         |


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The following described maintenance activities, on transmission facilities operationally controlled by the CAISO only, are usually allowed during a Restricted Maintenance Operations period if approved by the CAISO. Additional specific maintenance not listed here may be allowed if CAISO personnel determine the maintenance activities present a minimal threat to system reliability, present a risk that can be adequately mitigated, or would present a greater risk to the system reliability if not allowed as scheduled or planned. This list will be expanded or contracted as additional studies are completed or as experience dictates:

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| <b>1</b> | <b>Circuit Breaker Maintenance</b>         | <p>Limited to the following maintenance activities and to only those circuit breakers which when opened will not result in a loss of resource capacity to the system due to the availability of an additional parallel load path.</p> <ul style="list-style-type: none"> <li>• Response Time Recording (RTR): a diagnostic test performed with the breaker energized that analyzes the condition of circuit breakers. The process involves opening and closing the breaker while the response recorder is connected to pre-wired terminals. This test is limited to the breakers described above.</li> <li>• Mechanism Maintenance and Diagnostic Testing: a maintenance activity in which the circuit breaker is isolated by opening disconnects and personal protective grounds added as needed. Mechanism Maintenance includes cleaning, lubricating, and adjusting the operating linkage, verifying pressure switch settings and heater operations. Diagnostic testing includes such things as high-current contact resistance, oil/gas sampling, power factor, timing, and trip testing. This maintenance activity is limited to the breakers described above.</li> </ul> |
| <b>2</b> | <b>Protective Relay Maintenance</b>        | Limited to only those protective relay schemes that have equivalent protective relaying which enables one set of relays to be completely isolated from active circuits by means of isolating test switches during testing while the other set of relays remains in service.  |
| <b>3</b> | <b>Maintenance of Monitoring Equipment</b> |  |

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|  <b>California ISO</b><br>Your Link to Power | <b>OPERATING<br/>PROCEDURE<br/>ATTACHMENT A</b> | <b>Procedure No.</b>                      | E-509A  |
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| <b>4</b> | <b>HOT Insulator Washing/Cleaning – Stations</b>           |   |
| <b>5</b> | <b>HOT Insulator Washing/Cleaning – Transmission Lines</b> |   |
| <b>6</b> | <b>Live Line Maintenance</b>                               | <ul style="list-style-type: none"> <li>• Replace broken or defective insulators</li> <li>• Replace conductor spacers</li> <li>• Install conductor repair splices or patch rods</li> <li>• Remove kites or metallic balloons</li> <li>• Hot wipe insulators to remove contamination</li> <li>• Replace vibration dampers</li> <li>• Replace insulator pins or hardware</li> <li>• Replace damaged cross-arms/structures</li> <li>• Test insulators</li> <li>• Replace or repair arcing horn</li> </ul> |
| <b>7</b> | <b>Station Disconnect Switch Maintenance</b>               |   |

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