

**RTO WEST**

**OUTAGE COORDINATION  
APPENDIX**

**3/19/01 DRAFT**

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## Outage Coordination Appendix

### 1. COORDINATION OF GENERATING UNIT AND TRANSMISSION FACILITY OUTAGES

#### 1.1 THE ROLE OF RTOW

- a) RTO West, Inc. (“RTO West” or “RTOW”) is authorized to coordinate and approve Outages for Maintenance, repair and construction of all Transmission Facilities and Reliability Must Run (“RMRs”) generation within the RTOW Grid, including RTOW Grid Critical Protective Systems. This Appendix is designed to enable RTOW to perform this role.
- b) The Participating Transmission Owner (“TO”) owning the Transmission Facility shall remain solely and directly responsible for the performance of all Maintenance work, whether on energized or de-energized facilities, including all activities related to providing a safe working environment.
- c) RTOW will accept, schedule, and approve Maintenance Outage requests. The areas of RTOW Maintenance Outage scheduling responsibility are:
  - 1) all Transmission Facilities, including the associated substation equipment and RTOW Grid Critical Protective Systems, constituting or impacting the RTOW Grid;
  - 2) all interconnections with Control Areas outside of the RTOW Grid; and
  - 3) all RMRs within the RTOW Grid.
- d) RTOW has neither authority nor responsibility to schedule or approve Outages for Generating Units that are not RMRs, other than the authorities RTOW has over all Generating Units and Transmission Facilities during System Emergencies. However, RTOW is authorized to require all Generators within the RTOW Grid to provide planned Outage schedules for their non-RMR Generating Units to RTOW for use in coordinating Outages of Transmission Facilities and RMRs.
- e) RTOW shall coordinate Maintenance Outages of Transmission Facilities and RMRs so that system availability and reliability meet Applicable Reliability Standards and, to the extent reasonably feasible and on a no liability basis, so that the schedule for Outages does not impose unreasonable economic impact on the users or owners of the RTOW Grid.
- f) RTOW will participate in the NWPP Coordination of Scheduled Outages, Section H Procedure. RTOW will act as the "path operator" for all paths under its operational jurisdiction as defined in the NWPP Coordination of Scheduled Outages Procedure.

#### 1.2 DATA REPORTING

All information submitted in relation to Maintenance Outages must be submitted by each Participating TO or each Scheduling Coordinator (“SC”) in accordance with this Appendix.

##### 1.2.1 Reporting for Reliability-Must-Run (RMR) Generation Resources

Information regarding proposed Generating Unit Maintenance Outages for RMR units shall be provided to RTOW by the SC having Maintenance scheduling responsibility for such RMRs as required in Section 1.3.

## 1.2.2 Reporting for Generating Units other than Local Generation Resources

Information regarding scheduled Generating Unit Maintenance Outages for Generating Units that are not RMRs shall be provided to RTOW by the SC having Maintenance scheduling responsibility for such Generating Unit as required in Section 1.3. No information is required for individual Generating Units having a rated capacity of less than ten (10) MW. Compliance with these reporting requirements shall be reviewed by the Market Monitoring Unit in accordance with the provisions of the Market Monitoring Appendix.

## 1.2.3 Reporting for Transmission Facility Maintenance

Information regarding proposed Transmission Facility Maintenance Outages for Transmission Facilities constituting or impacting the RTOW Grid shall be provided to RTOW by the Participating TO having operation and Maintenance responsibility for such Transmission Facilities. RTOW will post these proposed Maintenance Outages on the RTOW Website and the NWPP Coordinated Outage System (COS). Information on outages to facilities which are not part of the RTOW grid but affect the capacity of paths (Significant Outages) operated by RTOW is required in accordance with the NWPP Coordination of Scheduled Outages.

## 1.2.4 Proprietary Data

RTOW will consider all Generating Unit Outage information to be proprietary information in accordance with the requirements of the RTOW Tariff and the Market Monitoring Appendix. This information may be shared in adjoining RTOs for the purpose of outage and path capacity coordination.

## 1.2.5 Request Until Approved

The information relating to each proposed Transmission Facility Maintenance Outage or RMR Maintenance Outage submitted by a Participating TO or an SC in accordance with this Appendix will constitute a request for a Maintenance Outage and shall not be considered an approved Maintenance Outage until RTOW has notified the Participating TO or SC of such approval pursuant to Section F.4.

## 1.3 MAINTENANCE SCHEDULING TIME FRAMES

- a) Proposed Transmission Facility or Generating Unit Maintenance Outages, for both RMRs and non-RMRs, constituting or impacting the RTOW Grid or paths coordinated by RTOW shall be submitted in accordance with the following timing requirements.
- b) Semi-annually, on the business day closest to February 1 and September 1, each Participating TO and SC will provide RTOW an electronic data file consisting of a proposed known Transmission Facility or Generating Unit Maintenance Outage program for the period June through December and January through December respectively.
- c) These semi-annual plans must identify any proposed Transmission Facility or RMR Maintenance Outages anticipated over the six (6) month planning period. SCs responsible for Generating Units that are not RMRs shall include Maintenance Outages of such Generating Units in all Generating Unit Maintenance Outage programs for the designated planning period. RTOW must be made aware of any changes to previously proposed, but not yet approved Transmission Facility or RMR unit outages as soon as they are known but no later than 45 days prior to the calendar month in which the proposed outage is to occur (outage month).

## **1.4 PROPOSED GENERATING UNIT MAINTENANCE OUTAGE PROGRAM**

### **1.4.1 Maintenance Scheduling Information**

The following information is required for each RMR and for each non-RMR Generating Unit greater than or equal to ten (10) megawatts for the scheduling of Generating Unit Maintenance Outages:

- a) the Generating Unit name or other identifier;
- b) the MW of capacity that will be unavailable;
- c) the preferred scheduled start and finish date for each proposed Maintenance Outage;
- d) identification of primary and alternate telephone numbers for a single point of contact;
- e) the amount of Maintenance scheduling flexibility (i.e., the earliest start date and the latest finish date); and
- f) other information that are related to the Generating Unit facilities.

RTOW will work with the SCs and Participating TOs to identify optimum times for Generating Unit Maintenance Outages to be scheduled for reliability purposes. RTOW will work with non-member TOs and SCs to coordinate outages affecting RTOW managed path capacities.

### **1.4.2 Additional RMR Maintenance Outages**

If conditions require, an RMR may, through its SC and upon three (3) business days advance notice, submit a request to RTOW for a new Generating Unit Maintenance Outage. The RMR shall supply to RTOW, through its SC, the data set out in Section 1.4.1. At RTOW's discretion, this three (3) business day notice requirement may be relaxed.

### **1.4.3 Changes to an Approved RMR Maintenance Outage Program**

Each RMR shall notify RTOW in writing, through its SC, of any known changes to an RMR's approved Generating Unit Maintenance Outage scheduled no later than 45 days prior to the month in which the outage is to occur (outage month).

### **1.4.4 Acceptance or Rejection of Additional or Proposed Changes to Approved RMR Maintenance Outage Schedules**

- a) Any RMR submitting notice through their SC of an additional proposed RMR Maintenance Outage in accordance with Section 1.4.2 or a revision to a previously approved RMR Maintenance Outage in accordance with Section 1.4.3 must obtain the approval of the new or changed Outage from RTOW. Such a request must be made to RTOW by no later than 11:30 am four (4) Business Days prior to the starting date of the proposed RMR Maintenance Outage.
- b) RTOW shall acknowledge each request submitted in accordance with Sections 1.4.2 and 1.4.3 within two (2) working hours of the receipt of the request. RTOW shall approve or reject each request made in accordance with Sections 1.4.2 and 1.4.3 within a reasonable

time of the receipt of the request but in any event shall notify the SC of its decision not later than 3:30 pm on the following Business Day.

#### **1.4.5 Changes to Proposed RMR Maintenance Outages**

An RMR may submit changes to its proposed RMR Maintenance Outage program, through its SC, at any time.

#### **1.4.6 Additional Information Requests**

RTOW may request additional information or seek clarification from an SC, with respect to its RMRs, of the information submitted in relation to a proposed RMR Maintenance Outage.

### **1.5 PROPOSED TRANSMISSION FACILITY MAINTENANCE OUTAGE PROGRAM**

#### **1.5.1 Maintenance Scheduling Information**

The following information is required for each Transmission Facility for the scheduling of Transmission Facility Maintenance Outages:

- a) the identification of the Transmission Facility, including the Participating TO and location;
- b) the nature of the proposed Transmission Facility Maintenance Outage;
- c) the work which is to be performed.
- d) the preferred start and finish date and time for each proposed Transmission Facility Maintenance Outage;
- e) the time required to terminate the Maintenance and restore the Transmission System to normal operation;
- f) identification of primary and alternate telephone numbers for a single point of contact;
- g) the amount of Maintenance scheduling flexibility (i.e., the earliest start date and the latest finish date); and
- h) other information that are related to the Transmission Facilities.

#### **1.5.2 RTOW Grid Critical Protective Systems**

- a) Protective relay systems and Remedial Action Schemes (“RASs”) that may have a direct impact on the ability of RTOW to maintain system security and meet Applicable Reliability Criteria shall be designated as components of RTOW Grid Critical Protective Systems. RTOW, in conjunction with the Participating TO, shall identify and designate all RTOW Grid Critical Protective Systems associated with the Participating TO’s Transmission Facilities. RTOW may change the designation of facilities that constitute the RTOW Grid Critical Protective Systems from time to time. RTOW Grid Critical Protective Systems and RASs may include those associated with Transmission Facilities and Generating Unit facilities.
- b) Participating TOs shall coordinate with RTOW, other Participating TOs, Generators and Utility Distribution Companies (“UDCs”) to ensure that RTOW Grid Critical Protective Systems are installed, maintained, and will function on a coordinated and complementary

basis with the Participating TOs', Generators' and UDCs' protective systems. Participating TOs who are parties to contracts affecting RASs shall make all reasonable efforts to amend those contracts in order to permit each relevant RAS to be operated in such manner as RTOW may reasonably require.

- c) Each Participating TO shall continue to install, modify, maintain, repair, replace, and maintain the settings or functionality of RTOW Grid Critical Protective Systems in accordance with Western Systems Coordinating Council ("WSCC") and North American Electric Reliability Council ("NERC") criteria and Good Utility Practice and shall not change or disable such settings or functionality without the prior written agreement of RTOW.

### **1.5.3 Additional Transmission Facility Maintenance Outages**

If conditions require, a Participating TO may, upon three (3) business days advance notice, submit a request to RTOW for a new Transmission Facility Maintenance Outage on its system. The Participating TO shall supply to RTOW the data specified in this Section F.1.5.1. At RTOW's discretion, this three (3) business day notice requirement may be relaxed.

### **1.5.4 Changes to an Approved Transmission Facility Maintenance Outage Program**

Each Participating TO shall notify RTOW in writing of any known changes to a Transmission Facility with an approved Transmission Facility Maintenance Outage scheduled no later than 45 days prior to the month in which the outage is to occur (outage month).

### **1.5.5 Acceptance or Rejection of Additional or Changes to Approved Transmission Facility Maintenance Outage Schedules**

- a) Participating TOs submitting notice of an additional proposed Transmission Facility Maintenance Outage in accordance with Section 1.5.3 or a revision to a previously approved Transmission Facility Maintenance Outage in accordance with Section 1.5.4 must obtain approval of the new or changed Outage from RTOW. Such request must be made to RTOW by no later than 11:30 am four (4) Business Days prior to the starting date of the proposed Transmission Facility Maintenance Outage.
- b) RTOW shall acknowledge each request submitted in accordance with Sections 1.5.3 and 1.5.4 within two (2) working hours of the receipt of the request. RTOW shall approve or reject each request made in accordance with Sections 1.5.3 and 1.5.4 within a reasonable time of the receipt of the request but in any event shall notify the Participating TO of its decision not later than 3:30 pm on the following Business Day.

### **1.5.6 Changes to Proposed Transmission Facility Maintenance Outages**

A Participating TO may submit changes to its proposed Transmission Facility Maintenance Outage information at any time.

### **1.5.7 Additional Information Requests**

RTOW may request additional information or seek clarification from Participating TOs of the information submitted in relation to a proposed Transmission Facility Maintenance Outage.

## **2. ANALYSIS OF GENERATING UNIT ADEQUACY**

### **2.1 CALCULATION OF AGGREGATE GENERATING CAPACITY**

RTOW will use the RMR proposed Generating Unit Maintenance Outage programs and other Generating Unit Maintenance Outage information referred to in this Appendix to calculate the aggregate Energy from Generating Units projected to be available. On a monthly basis, RTOW will calculate the minimum aggregate weekly Generating Unit capacity projected to be available over the peak Demand hours during each of the weeks of the remaining months of the six (6) month outage plan, reflecting any intervening Maintenance Outage schedule changes.

### **2.2 LONG-TERM DEMAND FORECASTS**

Every month, RTOW shall publish on the RTOW Website Demand forecasts for each Congestion Zone for the next twelve (12) months by week. This Demand forecast will be developed by RTOW. During the development of this Demand forecast, RTOW will communicate with SCs and other entities with knowledge of potential customer Load growth and with the applicable State Resource and Demand planning processes.

RTOW may, at its discretion, publish on the RTOW Website additional Demand forecasts for two (2) or more years following the next year.

### **2.3 SYSTEM ADEQUACY REPORT**

RTOW will publish a report comparing, on a weekly basis for a six (6) month period, the projected aggregate minimum Generating Unit capacity to the sum of the Demand forecasted by RTOW in accordance with Section 2.2 and the Operating Reserve requirements forecasted by RTOW. This report will include comparisons by Congestion Zone and for the RTOW Control Area. The report will use the latest proposed and approved RMR Maintenance Outage programs and other Maintenance Outage information from all non-RMR Generating Units. RTOW's analysis and report will take into consideration all anticipated transmission Congestion and import limitations. RTOW shall publish this report on the RTOW Website.

## **3 ANALYSIS OF RTOW GRID OUTAGE PLANS**

RTOW will review the proposed Transmission Facility or Generating Unit Maintenance Outages submitted under this Appendix to determine if any one or a combination of proposed Transmission Facility or RMR Maintenance Outage requests may: i) cause RTOW to violate the Applicable Reliability Criteria or; ii) impose, in RTOW's determination and to the extent reasonably feasible and on a no liability basis, in aggregate, unreasonable economic impact on the users or owners of the RTOW Grid by impacting transmission Congestion. This review will take into consideration factors including:

- a) forecasted peak Demand conditions;
- b) other proposed Transmission Facility or RMR Maintenance Outages, previously approved Transmission Facility or RMR Maintenance Outages and the scheduled Outages of non-RMR Generating Units;
- c) potential to cause Congestion;
- d) impacts on the transfer capability of Firm Transmission Right ("FTR") Interfaces and Scheduling Points;

- e) comments from RTOW Grid users concerning proposed Transmission Facility and/or RMR Maintenance Outages; and
- f) Outage plans of non-RTOW Control Areas.

RTOW will publish on the RTOW Website on an ongoing basis a summary of all requested and all approved Transmission Facility Maintenance Outages.

## **4 MAINTENANCE SCHEDULING AND APPROVAL OF PROPOSED TRANSMISSION FACILITY OR LGR MAINTENANCE OUTAGES**

### **4.1 RTOW APPROVAL OF PROPOSED TRANSMISSION FACILITY OR RMR MAINTENANCE OUTAGES**

Unless RTOW determines that the proposed Transmission Facility Maintenance Outages or RMR Maintenance Outages may: i) cause RTOW to violate the Applicable Reliability Criteria or; i) impose, in RTOW's determination and to the extent reasonably feasible and on a no liability basis, in aggregate, unreasonable economic impact on the users or owners of the RTOW Grid by creating transmission Congestion, RTOW shall approve the proposed Transmission Facility or RMR Maintenance Outages within thirty (30) Calendar Days of the Outage Month. Once approved, Transmission Facility or RMR Maintenance Outages may not be changed by RTOW except under the conditions described in Sections 4.5 and 4.6.

### **4.2 RTOW REJECTION OF PROPOSED TRANSMISSION FACILITY OR RMR MAINTENANCE OUTAGES**

- a) If a proposed Transmission Facility Maintenance Outage or a proposed RMR Maintenance Outage, in conjunction with previously approved Transmission Facility or RMR Maintenance Outages, may: i) cause RTOW to violate the Applicable Reliability Criteria or; ii) impose, in RTOW's determination and to the extent reasonably feasible and on a no liability basis, in the aggregate, unreasonable economic impact on the users or owners of the RTOW Grid by creating transmission Congestion, RTOW shall notify in writing the relevant Participating TO or SC. Upon such written notice, the Participating TO or SC shall revise the proposed Transmission Facility or RMR Maintenance Outage and inform RTOW of such changes pursuant to this Appendix. RTOW's determination of unreasonable economic impact will include potential increased Maintenance expenses for the Participating TO or RMR resulting from rejection of the proposed Maintenance Outage.
- b) After following the process in Section 4.3, RTOW shall only have the authority to reject a Transmission Facility Maintenance Outage or a proposed RMR Maintenance Outage if it would cause RTOW to violate the Applicable Reliability Criteria. RTOW may refer Maintenance Outages that impose, in RTOW's determination and to the extent reasonably feasible and on a no liability basis, in the aggregate, unreasonable economic impact on the users or owners of the RTOW Grid to the Market Monitoring Unit for its review.
- c) Disputes with respect to RTOW's rejection of a proposed Transmission Facility Maintenance Outage or a proposed RMR Maintenance Outage shall be resolved through the RTOW Alternative Dispute Resolution ("ADR") process.

#### **4.3 RTOW PROPOSAL OF AMENDMENTS TO PROPOSED TRANSMISSION FACILITY OR RMR MAINTENANCE OUTAGE REQUESTS**

RTOW may provide affected Participating TOs or SCs, in writing, with suggested amendments to those proposed Transmission Facility or RMR Maintenance Outage requests rejected by RTOW in accordance with the provisions of Section 4.2. In such event, RTOW shall identify the concerns that prompted RTOW's rejection of the proposed Transmission Facility or RMR Maintenance Outage requests and shall suggest possible remedies or Maintenance schedule revisions that might mitigate those concerns. If multiple proposed Transmission Facility or RMR Maintenance Outages (after including previously approved Transmission Facility or RMR Maintenance Outages) are the cause of RTOW's concern, RTOW shall:

- a) communicate bilaterally with each affected Participating TO and/or SC to determine whether such entity would adjust its proposed Transmission Facility or RMR Maintenance Outage schedule or its Maintenance Outages for non-RMR Generating Units;
- b) determine if the affected Participating TOs and/or SCs want to negotiate bilaterally; or
- c) choose the proposed Transmission Facility or RMR Maintenance Outage(s) that causes the least Congestion on the RTOW Grid.

Any suggested amendments that are accepted by the Participating TO or SC will be considered by the RTOW to be Transmission Facility or RMR Maintenance Outage requests and will be processed by RTOW in accordance with this Appendix.

#### **4.4 DELAY IN RTOW APPROVAL**

RTOW may delay its approval of a proposed Transmission Facility or RMR Maintenance Outage if insufficient or incomplete information is provided to RTOW.

#### **4.5 FINAL APPROVAL REQUIRED PRIOR TO INITIATION OF TRANSMISSION FACILITY OR RMR MAINTENANCE OUTAGES**

A Participating TO or an SC may not initiate an approved Transmission Facility or RMR Maintenance Outage without receiving final approval as specified in this Section.

Twelve (12) hours before the day that an approved Transmission Facility Maintenance Outage or RMR Maintenance Outage is scheduled to commence, the appropriate Participating TO or SC shall contact RTOW for final approval of the Transmission Facility or RMR Maintenance Outage, including the starting time and return time. No Transmission Facility or RMR Maintenance Outage shall commence without such final approval being obtained from RTOW, whose decision shall be final.

#### **4.6 WITHHOLDING OF FINAL APPROVAL OF APPROVED TRANSMISSION FACILITY OR RMR MAINTENANCE OUTAGES**

- a) RTOW is authorized to withhold final approval for a Transmission Facility Maintenance Outage or RMR Maintenance Outage only if commencement of the Transmission Facility or RMR Maintenance Outage would threaten public health or safety or if RTOW forecasts an inability to meet Demand within the Applicable Reliability Criteria after all other options to meet Demand have been exercised. Such options include but are not limited to the following:
  - i) interruption of curtailable Load;

- ii) full utilization of imports; and
  - iii) rescheduling of other Transmission Facility or RMR Maintenance Outages.
- b) RTOW shall inform an affected Participating TO or SC as soon as RTOW identifies a situation that may lead to the cancellation of an approved Transmission Facility or RMR Maintenance Outage.
  - c) Parties whose approved Transmission Facility or RMR Maintenance Outages are denied final approval by RTOW shall be entitled to receive compensation for demonstrable costs incurred as a result of RTOW's denial of final approval. Any disagreement over the demonstrable costs shall be submitted to the RTOW ADR process. RTOW shall recover such costs through the RTOW Administrative Charge. Any payments made under this mechanism are subject to review by RTOW's Market Monitoring Unit.

RTOW shall immediately notify an affected Participating TO or SC of its intention to withhold final approval. Transmission Facility or RMR Maintenance Outages for which final approval is denied by RTOW shall be rescheduled pursuant to this Appendix.

#### **4.7 RTOW AUTHORITY TO TERMINATE TRANSMISSION FACILITY OR RMR MAINTENANCE OUTAGES**

- a) If RTOW determines that such action is necessary to ensure the reliability of the RTOW Grid, RTOW may order a Participating TO or an SC at any time, consistent with the physical status of the facility, to terminate a Transmission Facility or RMR Maintenance Outage and return a Transmission Facility or an RMR to service before the Maintenance is completed.
- b) Parties whose approved Transmission Facility or RMR Maintenance Outages are terminated by RTOW shall be entitled to receive compensation for demonstrable costs incurred as a result of RTOW's cancellation. Any disagreement over the demonstrable costs shall be submitted to the RTOW ADR process. RTOW shall recover such costs through the RTOW Administrative Charge. Any payments made under this mechanism are subject to review by RTOW's Market Monitoring Unit.

#### **4.8 PRIORITY OF APPROVED TRANSMISSION FACILITY OR RMR MAINTENANCE OUTAGES**

Approved Transmission Facility or RMR Maintenance Outages will be given a priority over proposed Transmission Facility or RMR Maintenance Outage requests.

#### **4.9 LIMITATION OF RTOW AUTHORITY TO REJECT PROPOSED RMR MAINTENANCE OUTAGES**

RTOW's authority to reject proposed RMR Maintenance Outages is limited only to RMR Maintenance Outages proposed to be scheduled during times that such units are required to meet RMR obligations.

### **5 MANAGEMENT OF IMMEDIATE NATURE MAINTENANCE**

- a) An SC or Participating TO that identifies a situation likely to result in a Forced Outage within the next twenty-four (24) hours unless immediate corrective action is taken, where such action requires the removing from service or restricting the operation of an RMR, or

removing a Transmission Facility from service, shall communicate directly with RTOW. RTOW shall immediately approve such an Outage as a Forced Outage.

- b) An SC or Participating TO that identifies a situation likely to result in a Forced Outage but of a nature not requiring a removal from service until more than twenty-four (24) hours in the future will be subject to the provisions of this Appendix with respect to any necessary Outage except that the requirements imposing time limits for notification will be waived and the request shall be expedited by RTOW, provided notice is given as soon as possible.
- c) RTOW may refer Outages conducted under either of the above Sections to the Market Monitoring Unit for its review.

## **6. COMMUNICATION OF MAINTENANCE OUTAGE REQUESTS**

### **6.1 SINGLE POINT OF CONTACT**

- a) All communications concerning: i) a proposed Transmission Facility or RMR Maintenance Outage request; ii) a request to confirm or change an approved Transmission Facility or RMR Maintenance Outage; or iii) Maintenance Outages for non-RMR Generating Units shall be between RTOW and the designated single point of contact for each Participating TO or SC, which may be the applicable Area Operation Center (“AOC”) or Resource Operation Center (“ROC”), respectively. Communication will be directly with the relevant Participating TOs and SCs except for communications with respect to activities within three (3) working days of Real-Time, when, at a Participating TO’s or SC’s request, the communications may be with their respective AOC or ROC.
- b) The Participating TO or SC shall provide in its initial request the identification of the single point of contact, along with primary and alternate means of communication. This identification shall be confirmed in all communications with RTOW in relation to: i) proposed or approved Transmission Facility or RMR Maintenance Outage requests, including any request for confirmation, change or final approval of an proposed or approved Transmission Facility or Generating Unit Maintenance Outage; and ii) notifications of Maintenance Outages for non-RMR Generating Units made to RTOW.

### **6.2 METHODS OF COMMUNICATION**

The methods of communication from the SC or Participating TO to RTOW can be in the form of the following:

- a) voice;
- b) fax; and/or
- c) electronic (E-mail, FTP file, etc.).

Items b and c above will be acceptable where information is to be submitted “in writing.”

### **6.3 CONFIRMATION**

When fax or electronic communication is utilized, confirmation from RTOW must be received by the Participating TO or SC to validate the receipt of the request for approval of a scheduled Transmission Facility or RMR Maintenance Outage.

### **6.4 COMMUNICATION OF APPROVAL OR REJECTION**

RTOW shall use the same methods as defined above to communicate to the relevant Participating TO or SC the approval or rejection of a proposed Transmission Facility or RMR Maintenance Outage request or approval of a request to change an approved Transmission Facility or RMR Maintenance Outage.

## **7. OUTAGE COORDINATION FOR NEW FACILITIES**

### **7.1 COORDINATION BY RTOW**

The procedure to energize and place in service any new, rebuilt, expanded or relocated piece of equipment connected to the RTOW Grid must be set out by the SC or Participating TO and coordinated by RTOW.

### **7.2 TYPES OF WORK REQUIRING COORDINATION**

The types of work that RTOW will coordinate under this Appendix include any new addition, replacement or modification to the RTOW Grid, including but not necessarily limited to:

- a) transmission lines that are part of the RTOW Grid;
- b) circuit breakers, transformers, disconnects, reactive devices, wave traps, and other facilities that are part of the RTOW Grid;
- c) Generating Unit interconnections; and
- d) RTOW Grid Critical Protective Systems, Energy Management Systems (“EMSs”), Supervisory Control and Data Acquisition (“SCADA”) systems, Automatic Generation Control (“AGC”) systems, etc.

### **7.3 UNCOMPLICATED WORK**

If line rearrangements and/or station equipment work are uncomplicated and easily understood, RTOW may determine that the work can be accomplished using Transmission Facility or RMR Maintenance Outages approved in accordance with this Appendix. RTOW shall make this determination in coordination with the requesting Participating TO or SC, if applicable.

### **7.4 SPECIAL PROCEDURES FOR MORE COMPLEX WORK**

#### **7.4.1 Responsibility for Preparation**

In cases to which Section 7.3 above does not apply, it is the responsibility of the requesting Participating TO or SC to provide RTOW with the information necessary to enable RTOW to approve proposed Transmission Facility or RMR Maintenance Outages in a manner that enables the necessary work to proceed. RTOW must approve the procedure.

#### **7.4.2 Information to be Provided to RTOW**

RTOW must be informed a minimum of forty-five (45) days prior to the month in which the work will begin. The information contained in Attachment F1 to this Appendix must be provided to RTOW.

#### **7.4.3 Approval of the Procedure**

Upon receipt of the information referred to in Attachment 1 to this Appendix, RTOW shall review the information and notify the SC or Participating TO of any required modifications. RTOW may, at its discretion, require more detail or changes to the procedure. The requesting SC or Participating TO shall consult with other entities likely to be affected, and shall revise the procedure, following any necessary discussions with RTOW, to reflect RTOW's requirements. Following RTOW approval, the SC, Participating TO, and any other entities likely to be affected will be so informed.

#### **7.4.4 Changes to Procedure**

Once the proposed Transmission Facility or RMR Maintenance Outage is approved by RTOW, any modifications to the procedure will require that the requesting Participating TO or SC submit the proposed modifications to RTOW for approval, with as much lead time as possible.

#### **7.4.5 Approval of Work Requiring Coordination**

No work may begin pursuant to any procedure unless approved by RTOW.

### **8. RECORDS**

RTOW shall maintain a confidential record of each approved Transmission Facility or RMR Maintenance Outage as it is implemented.

## **ATTACHMENT-1 TO OUTAGE COORDINATION APPENDIX**

### **PROGRAM PREPARATION OUTLINE FOR NEW FACILITIES**

The following information must be included in each request for an Outage under Section F.7.4 of this Appendix.

Entity performing work.

Location of work.

Identification of existing facilities involved and new facilities (if any) being added or existing facilities being permanently removed from service.

Outages required (clearly identify each Outage if multiple Outages are required), including:  
sequence of Outage; and  
estimate of Outage duration.

Clearances required (including identification of all switching devices to be tagged), including:

- 5.1 line;
- 5.2 Generating Unit; and
- 5.3 equipment.

6.0 General statement of work to be completed with intermediate progress dates/events identified, including:

- 6.1 transmission line work;
- 6.2 Generating Unit work;
- 6.3 SCADA modification work; and
- 6.4 protective scheme work.

7.0 Procedure for reporting work accomplished, including:

- 7.1 to RTOW;
- to the Participating TO(s);  
to the SC for the Generating Unit(s); and  
to the appropriate AOC(s) or ROC(s), if applicable.

8.0 General description of the method to be used to energize and test new/rebuilt Generating Unit(s), line(s) and station equipment.

9.0 General description of the procedure to be used for phasing.

10.0 In-service testing, including:

- 10.1 procedure to be performed; and
- 10.2 notice of testing completion.

11.0 Statement of completion, including:

- 11.1 statement to be made at the completion of each section of program; and
- 11.2 statement to be made at completion of total project.

12.0 Drawings to be attached, including:

- 12.1 existing status;

- 12.2 for each intermediate stage; and
- 12.3 proposed completion of job.