LUMA

Scheduling Planned T&G Outages

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Procedure Title: **Scheduling Planned T&G Outages**

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1.0 Executive Summary

This procedure provides direction to Interconnected Facilities and System Operations for requesting outages of Interconnected Facilities and Transmission Elements. This procedure provides detailed steps for analyzing, approval, scheduling, documenting and communications prior to the outage execution.

2.0 Objective/Scope/Roles

2.1 Objective

This procedure provides direction regarding the required steps for requests of outages, length of outages and return to service. The procedure also addresses the safe, timely and efficient analysis, approval, scheduling, documenting and communications of bulk power system planned outages prior to the actual execution of the outage on the Bulk Power System.

2.2 Scope

This procedure provides direction to All Interconnected Facilities and Transmission Operations and requires that all requests for a major generation or transmission outage Shall be submitted through System Operations 2 years prior to the requested date. System Operations Shall review, and either approve or deny the request within 60 days.All Interconnected Facilities and Transmission Operations personnel Shall request a minor generation or minor transmission outage on an as needed basis.

2.3 Roles and Responsibilities

2.3.1 Shift Engineer (SE)

The SE has direct responsibility for the operation and integration of the generation connected to the overall electrical system. The SE oversees load dispatching of the generation as well as

managing scheduled outages to Interconnected Facilities. Also responsible for the generation responses to emergencies or other system anomalies that may occur.

2.3.2 Senior Shift Engineer (SSE)

The SSE has direct responsibility for the overall operation of the Transmission Operations Center (TOC). The SSE oversees and ensures that all activities within the TOC are properly controlled and coordinated including the functions of the 38 kV Transmission Operator (TO), the 115 and 230 kV Senior Transmission Operator (STO) and the SE consults on all planned outages to Interconnected Facilities.

2.3.3 Transmission Operator 38 kV (TO)

The TO has direct responsibility for the operation of the 38 kV portion of the electrical system. Oversees the loading and switching operations on the 38 kV system and the response to emergencies or other system anomalies that may occur and affect the safe and stable operation of the 38 kV system. The TO interfaces with the SOP, LTOS, TOS, SSE and STG on the outage planning, review, approval and scheduling process. The TO reviews and approves all 38kV planned outages.

2.3.4 Senior Transmission Operator: 115 kV & 230 kV (STO)

The STO has direct responsibility for the operation of the 115 kV and 230 kV portions of the electrical system. Oversees the loading and switching operations on the 115 kV and 230 kV system and responds to emergencies or other system anomalies that may occur and affect the safe and stable operation of the 115 kV and/or the 230 kV system. Consults on, and reviews and approves all Transmission and Interconnected Facility planned outages.

2.3.5 Generator Facility Operator (GFO)

The GFO, asset manager, or equivalent will communicate following the Plant-Level Communications procedure to allow personnel to implement this procedure. The GFO, asset manager, or equivalent is the Responsible Requestor for all Generation Maintenance planned outages.

2.3.6 Manager Control Center Operations (MCCO)

The MCCO oversees all Transmission and Interconnected Facility operations. The MCCO has final review and final approval of all Transmission and Interconnected Facility planned outages except 38kV.

2.3.7 Supervisor Transmission and Generation (STG)

The STG supervises all Transmission and Interconnected Facility operations. The STG reviews and approves all Transmission and Interconnected Facility outages. The STG has final review and final approval of all 38kv planned outages.

2.3.8 Manager Control Center Support (MCCS)

The MCCS oversees all Transmission and Interconnected Facility outage planning. Reviews and approves all Transmission and Interconnected Facility planned outages including 38kV.

2.3.9 Supervisor Outage Planning (SOP)

The SOP is directly responsible for all Transmission and Interconnected Facility outage planning by supervising the Lead Transmission Outage Scheduler and Transmission Outage Scheduler. The SOP consults with Senior Shift Engineer and Senior Transmission Operator on all planned outage requests and reviews and approves all Transmission and Interconnected Facility planned outages including 38kV.

2.3.10 Lead Transmission Outage Scheduler (LTOS)

The LTOS performs Transmission and Interconnected Facility Outage planning, studies, analysis and the step-by-step outage process.

2.3.11 Transmission Outage Scheduler (TOS)

The TOS assists the LTOS in all outage planning, studies, analysis and the step-by-step outage process.

3.0 Procedure

3.1 Create and Maintain T&G Scheduling System

3.1.1 **MCCS Shall create and maintain the following for biannual and multi-year** Planned Major Transmission and Generation Planned Outage Requests and Scheduled Major Transmission and Generation Maintenance Planned Outages:

- Planned Outage Request form including list of required information, confirmation of ordering of long lead time equipment, parts and tools, identification of any specialized training and a Responsible Requestor

- Numbering and Scheduling system for Planned Outage Requests for 230 kV, 115 kV, 38 kV and interconnected facilities

- Follow up system to confirm that all long-lead-time equipment, parts and tools are on-site and that specialized training and safety training are complete 45 days prior to outage commencement

- Notification system to each Responsible Requestor on any update or change to the Planned Outage Request and Scheduled Planned Outage up to Approval.

Scheduling Planned T&G Outages

3.1.2 MCCS Shall create and maintain the following for Minor Transmission and Generation Maintenance Planned Outage Requests and Scheduled Minor Transmission and Generation Maintenance Planned Outages:

- Minor Maintenance Outage Request form including a list of required information, confirmation of ordering all equipment, parts and tools, identification of any specialized training, safety training, and a Responsible Requestor
- Numbering system for Minor Maintenance Outage Requests
- Numbering system for one-weekend and two-weekend Minor Generation Maintenance Outages
- Numbering system for Minor Transmission Maintenance Outages
- Scheduling System to plan and track all Minor Maintenance Outage Requests and Scheduled Minor Maintenance Outages
- Notification System to each Responsible Requestor on any update or change to the Minor Maintenance Outage Request and Scheduled Minor Maintenance Outage prior to outage commencement

3.2 Create Major Transmission Maintenance Planned Outage Schedule

3.2.1 **Responsible Requestor submits a Major Transmission Maintenance Planned** Outage Request to the SOP. The lead time for the request Shall be 2 years in advance. Information required Shall include:

- Date
- Correct name designation of the line or equipment desired using System Operations numbers and designations
- Name, email and phone number of the Responsible Requestor
- Anticipated Outage Duration in Days
- Description of maintenance work to be performed
- Does this outage request replace or modify an existing Planned Scheduled outage?
- Emergency Recall Time
- Local Generation Impact
- Type of Line clearance/outage desired

Scheduling Planned T&G Outages

3.2.2 **All Major Maintenance Planned Outage Requests Shall be submitted to the SOP** prior to June 30 in the current year for outages 2 years in advance.

3.2.3 **From the date of the submission of a Major Transmission Maintenance Planned** Outage Request, the SOP has a maximum of 60 days to review, request more information, or secure final approval for the Outage Request.

3.2.4 **SOP Shall Assign a Major Transmission Maintenance Planned Outage Request** Number and Shall notify Responsible Requestor of the Number.

3.2.5 **SOP Shall adhere to the following Rules when reviewing Major Transmission** Maintenance Planned Outage Requests:

- Two 230 kV Transmission Lines cannot have outages at the same time.
- When scheduling High Impact Transmission Lines (59000, 51000, 52000, 51200 and 51100), they should not be scheduled during peak season (August & September).
- As may be required due to system stability, Non-Continuous Transmission Line Outages may be used. Typical scheduled start is at 7:00 am and return to service by 3:00 pm the same day in order for the Transmission Line to be in service for the evening peak and repeat this timing on subsequent days until the Maintenance work is completed.

Scheduling Planned T&G Outages

- On outages with duration longer than 30 days, the previous year's peak day should be used in all stability, congestion and flow studies including Generation profiles.

3.2.6 **SOP Shall consult with SSE and STO or TO on each Transmission outage** request.

3.2.7 **Once SOP has received feedback from SSE, STO or TO and there are no** objections to proceed, SOP Shall forward Planned Outage Request to LTOS and TOS for appropriate studies, load flows and analysis.

3.2.8 **When all appropriate studies are complete and deemed not to impact system** stability, not to impact system reserves, and not to impact availability for peak usage, the Request is given a tentative time slot and ready for review and approval. The LTOS Shall forward this Request to SOP for review and approval.

3.2.9 **When SOP completes review and approval, SOP Shall forward this Request to** MCCS for review and approval.

3.2.10 **When MCCS completes review and approval, MCCS Shall forward this Request** to STG for review and approval.

Scheduling Planned T&G Outages

3.2.11 **When STG completes review and approval, STG Shall forward this Request to** MCCO for a final review and final approval. Upon final approval the Outage Request MCCO Shall return this approved Request to the LTOS.

3.2.12 **The LTOS Shall assign the approved Outage Request a Scheduled Outage** Number, and LTOS place the outage into what was the tentative scheduled time slot in the scheduling system.

3.2.13 **SOP Shall notify the Responsible Requestor of the approved change to** Scheduled status. At this point, the Responsible Requestor Shall become the Responsible Entity who is responsible for the work to be performed during the outage or who will assign or designate a new Responsible Entity who will take over the responsibility for the work to be performed during the outage.

3.2.14 **Once Responsible Entity is notified of approval change to Schedule status, the** outage process Shall proceed per the Outage Execution and Closeout Procedure.

3.2.15 **All Unplanned and Forced outages are per Procedure #26 Forced Outage.**

Scheduling Planned T&G Outages

3.2.16 Additional Scheduled Planned Outage Procedural Events:

- Scheduled Planned Outage Cancellation Request: Responsible Entity provides a reason for cancellation request to MCCO such as Forced Outage or long lead time equipment is substantially delayed. SOP to notify Responsible Entity of cancellation and LTOS to remove outage from schedule

- Scheduled Planned Outage Date Reschedule or Cancellation: Outage date can be moved or cancelled in the Schedule by the LTOS based on Bulk Power System conditions. SOP to notify Responsible Entity of the new scheduled execution date or cancellation.

- Scheduled Planned Outage Extension Request: Responsible Entity provides reason for extension. SOP to work SSE to see if request can be approved. SOP to notify Responsible Entity of denial or approval. LTOS to make change to schedule if required.

Scheduling Planned T&G Outages

3.3 Create Major Generation Maintenance Planned Outage Schedule

3.3.1 **GFO or other responsible requestor, submits a Major Generation Maintenance** Planned Outage Request to the SOP. The lead time for the request Shall be 2 years in advance. Information required Shall include:

- Date
- Correct name designation of the line or equipment desired using System Operations numbers and designations
- Name, email and phone number of the Responsible Requestor
- Name of Facility Owner
- Anticipated Outage Duration in Days
- Description of maintenance work to be performed
- Does this outage request replace or modify an existing Planned Scheduled outage?
- Emergency Recall Time
- Type of Line clearance/outage desired
- Will this maintenance increase, decrease or have no change to Generator Capacity?

Scheduling Planned T&G Outages

3.3.2 **All Major Maintenance Planned Outage Requests Shall be submitted to the SOP** prior to June 30 in the current year for outages 2 years in advance.

3.3.3 **From the date of the submission of a Major Generation Maintenance Planned** Outage Request, the SOP has a maximum of 60 days to review and secure final approval for the Outage Request.

3.3.4 **SOP Shall Assigns a Major Generation Maintenance Planned Outage Request** Number and notifies Responsible Requestor of the Number.

3.3.5 **SOP Shall adhere to the following Rules when reviewing Major Generation** Maintenance Planned Outage Requests:

- When scheduling High Impact Interconnected Facilities (Costa Sur Units 5 & 6, Aguirre Units I & 2, San Juan Units 5 & 6, Ecoelectrica and AES), they should not be scheduled during peak season (August & September).
- 18-month Consent decree for Environmental maintenance compliance for 6 Heavy Oil Interconnected Generation Facilities Shall be incorporated into the Major Generation Maintenance Planned Outages for this Class of Plants
- When performing load flows, studies and analysis on outages with duration longer than 30 days, the previous year's peak day should be used in all studies including Generation profiles.
- On outages with duration longer than 30 days, the previous year's peak day should be used in all stability, congestion and flow studies including Generation profiles.

Scheduling Planned T&G Outages

3.3.6 **Major Maintenance Shall be scheduled as needed per manufacturer's maintenance** recommendations of equipment or other factors.

3.3.7 **SOP Shall consult with SSE and STO on each Major Generation Maintenance** Planned Outage Request.

3.3.8 **SSE Shall review each Major Generation Maintenance Planned Outage Request** with SE.

3.3.9 **Once SOP has received feedback from SSE, STO or TO and SE and there are no** objections to proceed, SOP Shall forward Planned Outage Request to LTOS and TOS for appropriate studies, load flows and analysis.

3.3.10 **When all appropriate studies are complete and deemed not to impact system** stability, not to impact system reserves, and not to impact availability for peak usage, the Request is given a tentative time slot and

ready for review and approval. The LTOS Shall forward this Request to SOP for review and approval.

3.3.11 **When SOP completes review and approval, SOP Shall forward this Request to** MCCS for review and approval.

3.3.12 **When MCCS completes review and approval, MCCS Shall forward this Request** to STG for review and approval.

3.3.13 **When STG completes review and approval, STG Shall forward to MCCO for a** final review and final approval. Upon final approval, the Outage Request Shall be returned to the LTOS.

3.3.14 **The LTOS Shall assign the approved Outage Request a Scheduled Outage** Number, and TOS Shall place the outage into scheduled time slot in the scheduling system.

3.3.15 **SOP Shall notify the Responsible Requestor of the approved change to** Scheduled status. At this point, the Responsible Requestor, GFO, Shall

become the Responsible Entity who is responsible for the work to be performed during the outage.

3.3.16 Once Responsible Entity is notified of approval change to Schedule status, the outage process Shall proceed per the Outage Execution and Closeout Procedure.

3.3.17 Unplanned and Forced outages are per Procedure #26 Forced Outage.

3.3.18 Additional Scheduled Planned Outage Procedural Events:

- Scheduled Planned Outage Cancellation Request: Responsible Entity provides a reason for cancellation request to MCCO such as Forced Outage or long lead time equipment is substantially delayed. SOP to notify Responsible Entity of cancellation and LTOS to remove outage from schedule.

- Scheduled Planned Outage Date Reschedule or Cancellation: Outage date can be moved or cancelled in the Schedule by the LTOS based on Bulk Power System conditions. SOP to notify Responsible Entity of the new scheduled execution date or cancellation.

- Scheduled Planned Outage Extension Request: Responsible Entity provides reason for extension. SOP to work with SSE to see if request can be approved. SOP to notify Responsible Entity of denial or approval. LTOS to make change to schedule if required.

3.4 Minor Maintenance Transmission System Outages

3.4.1 Responsible Requestor submits a Minor Transmission Maintenance Outage Request to the SOP. Information required Shall include:

- Date
- Correct name designation of the line or equipment desired using System Operations numbers and designations
- Name, email and phone number of the Responsible Requestor
- Anticipated Outage Duration in Days
- Anticipated time required from request date: >30 days
- Description of maintenance work to be performed
- Does this outage request replace or modify an existing Planned Scheduled outage?
- Emergency Recall Time
- Local Generation Impact
- Type of Line clearance/outage desired

Scheduling Planned T&G Outages

3.4.2 SOP Shall Assign a Minor Transmission Maintenance Outage Request Number and Shall notify Responsible Requestor of the Number.

3.4.3 SOP Shall adhere to the following Rules when reviewing Minor Transmission Maintenance Planned Outage Requests:

- Two 230kV Transmission Lines cannot have outages at the same time.
- When scheduling High Impact Transmission Lines (59000, 51000, 52000, 51200 and 51100), they should not be scheduled during peak season (August & September).
- As may be required due to system stability, Non-continuous Transmission Line Outages may be used. Typical scheduled start is at 7:00am and return to service by 3:00pm the same day in order for the Transmission Line to be in service for the evening peak and repeat this timing on subsequent days until the Maintenance work is completed.

3.4.4 SOP Shall consult with SSE and STO or TO on each Transmission outage request.

3.4.5 Once SOP has received feedback from SSE, STO or TO and there are no objections to proceed, SOP Shall forward Planned Outage Request to LTOS and TOS for appropriate studies, load flows and analysis.

3.4.6 When all appropriate studies are complete and deemed not to impact system stability, not to impact system reserves, and not to impact availability for peak usage, the Request is Shall be given a tentative time

slot and is ready for review and approval. The LTOS Shall forward this Request to SOP for review and approval.

3.4.7 When SOP completes review and approval, SOP Shall forward this Request to MCCS for review and approval.

3.4.8 When MCCS completes review and approval, MCCS Shall forward this Request to STG for review and approval.

3.4.9 When STG completes review and approval, STG Shall forward to MCCO for a final review and final approval. Upon final approval the Outage Request Shall be returned to the LTOS.

3.4.10 The LTOS Shall assign the approved Outage Request a Scheduled Minor Maintenance Outage Number, and TOS Shall place the outage into what was the tentative scheduled time slot in the scheduling system.

3.4.11 SOP Shall notify the Responsible Requestor of the approved change to Scheduled status. At this point, the Responsible Requestor Shall become the Responsible Entity who is responsible for the work to be performed during the outage or who will assign or designate a new Responsible

Entity who will take over the responsibility for the work to be performed during the outage.

3.4.12 **Once Responsible Entity is notified of approval change to Schedule status, the** outage process Shall proceed per the Outage Execution and Closeout Procedure.

3.4.13 **Unplanned and Forced outages are per Procedure #26 Forced Outage.**

3.5 Minor Maintenance Interconnected Facilities Outages

3.5.1 GFO or Responsible Requestor submits a Minor Generation Maintenance Planned Outage Request to the SOP. The non-peak season Request lead time Shall be at the earliest, the next 2 to 3 weekends. Information required on the Request Shall include:

- Date
- Correct name designation of the line or equipment desired using System Operations numbers and designations
- Name, email and phone number of the Responsible Requestor
- Name of Facility Owner
- Anticipated Outage Duration in Days
- Description of maintenance work to be performed

Scheduling Planned T&G Outages

- Does this outage request replace or modify an existing Planned Scheduled outage?
- Emergency Recall Time
- Type of Line clearance/outage desired
- Will this maintenance increase, decrease or have no change to Generator Capacity?

3.5.2 SOP Assigns a Minor Generation Maintenance Planned Outage Request Number and Shall notify Responsible Requestor of the Number.

3.5.3 SOP should adhere to the following Rules when reviewing Minor Generation Maintenance Planned Outage Requests:

- When scheduling High Impact Interconnected Facilities (Costa Sur Units 5 & 6, Aguirre Units 1 & 2, San Juan Units 5 & 6, Ecoelectrica and AES), they Shall not be scheduled during peak season (August & September).

Scheduling Planned T&G Outages

3.5.4 SOP Shall consult with SSE and STO on each Minor Generation Maintenance Planned Outage Request.

3.5.5 SSE Shall review each Minor Generation Maintenance Planned Outage Request with SE.

3.5.6 Once SOP has received feedback from SSE, STO, TO and SE and there are no objections to proceed, SOP Shall forward Planned Outage Request to LTOS and TOS for appropriate studies, load flows and analysis.

3.5.7 When all appropriate studies are complete and deemed not to impact system stability, not to impact system reserves, and not to impact availability for peak usage, the Request Shall be given a tentative time slot

and ready for review and approval. The LTOS Shall forwards this Request to SOP for review and approval.

3.5.8 When SOP completes review and approval, SOP Shall forward this request to MCCS for review and approval.

3.5.9 When MCCS completes review and approval, MCCS Shall forward this request to STG for review and approval.

3.5.10 When STG completes review and approval, STG Shall forward this request to MCCO for a final review and final approval. Upon final approval the Outage Request Shall be returned to the LTOS.

3.5.11 The LTOS Shall assign the approved Outage Request a Scheduled Minor Maintenance Outage Number, and TOS Shall place the outage into what was the tentative scheduled time slot in the scheduling system.

3.5.12 SOP Shall notify the Responsible Requestor of the approved change to Scheduled status. At this point, the Responsible Requestor, GFO, Shall

become the Responsible Entity who is responsible for the work to be performed during the outage.

3.5.13 Once Responsible Entity, GFO, is notified of approval change to Schedule status, the outage process Shall proceed per the Outage Execution and Closeout Procedure.

3.5.14 Unplanned and Forced outages are per Procedure #26 Forced Outage.

3.6 38 kV Major and Minor Maintenance Planned Outages

3.6.1 Responsible Requestor submits a Major or Minor Transmission Maintenance Outage Request to the SOP. Information required Shall include:

- Date
- Correct name designation of the line or equipment desired using System Operations numbers and designations
- Name, email and phone number of the Responsible Requestor
- Anticipated Outage Duration in Days
- Anticipated time required from request date: >30 days but less than 90 days for a Minor Outage and > 90 days for a Major outage
- Description of maintenance work to be performed

Scheduling Planned T&G Outages

- Does this outage request replace or modify an existing Planned Scheduled outage?
- Emergency Recall Time
- Local Generation Impact
- Type of Line clearance/outage desired

3.6.2 SOP Shall Assign a Major or Minor Transmission Maintenance Outage Request Number and Shall notify Responsible Requestor of the Number.

3.6.3 SOP Shall consult with TO on each 38kV Transmission outage request.

3.6.4 Once SOP has received feedback from TO and there are no objections to proceed, SOP Shall forward Planned Outage Request to LTOS and TOS for appropriate studies, load flows and analysis.

3.6.5 When all appropriate studies are complete and deemed not to impact system stability, not to impact system reserves, and not to impact availability for peak usage, the Request Shall be given a tentative time slot

and Shall be ready for review and approval. The LTOS Shall forward this Request to SOP for review and approval.

3.6.6 When SOP completes review and approval, MCCS Shall forward this Request to MCCS for review and approval.

3.6.7 When MCCS completes review and approval, MCCS Shall forward this Request to TO for review and approval.

3.6.8 When TO completes review and approval, TO Shall forward this Request to SSE for review and approval.

3.6.9 When SSE completes review and approval, SSE Shall forward to STG for a final review and final approval. Upon final approval the STG Shall return the approved Outage Request to the LTOS.

3.6.10 The LTOS Shall assign the approved Outage Request a Scheduled Major or Minor Maintenance Outage Number, and TOS Shall place the outage into what was the tentative scheduled time slot in the scheduling system.

3.6.11 SOP Shall notify the Responsible Requestor of the approved change to Scheduled status. At this point, the Responsible Requestor becomes the

Responsible Entity who is responsible for the work to be performed during the outage.

3.6.12 Once Responsible Entity is notified of approval change to Schedule status, the outage process Shall proceed per the Outage Execution and Closeout Procedure.

3.6.13 Unplanned and Forced outages are per Procedure #26 Forced Outage.

3.7 Posting of Annual Planned Outage Schedules

3.7.1 The MCCS Shall request an email distribution list from the Director System Operations (DSO) for the Annual Major Generation Maintenance Planned Outage Schedule and the Annual Major Transmission Maintenance Planned Outage Schedule. The MCCS or designee Shall distribute the Schedules 60 days past the June 30 deadline for Major Maintenance Planned Outage Request Submission on September 1st.

3.7.2 After October 1, the Annual Major Generation Maintenance Planned Outage Schedule and the Annual Major Transmission Maintenance Planned Outage Schedule are locked down. Between September 1 and

September 30, minor schedule changes may be made by the SOP, LTOS and TOS.

3.7.3 The Schedules Shall be distributed via the email distribution list monthly thereafter with notes documenting scheduling changes from the prior month.

3.7.4 The MCCS Shall request a Scheduling System real time viewing access list from the Director System Operations (DSO) for the Annual Major Generation Maintenance Planned Outage Schedule and the Annual Major Transmission Maintenance Planned Outage Schedule.

3.7.5 The MCCS Shall request a Scheduling System real time viewing and editing access list from the Director System Operations (DSO) for the Annual Major Generation Maintenance Planned Outage Schedule and the Annual Major Transmission Maintenance Planned Outage Schedule.

Appendix A: Glossary

Term	Definition
Planned Outage Request	The formal request including all required information to System Operations to take a transmission or generating asset out of service to perform maintenance tasks.
Scheduled Planned Outage	A planned outage request that has been approved and has a scheduled outage with time and duration.
Major Maintenance Generation Outage	An outage on an Interconnected Facility that encompasses manufacturer cyclic maintenance recommendations typically on a periodic maintenance cycle of 1 to 3 years.
Major Transmission Outage	An outage of a 115 or 230 kV transmission line or transmission related asset typically on a periodic maintenance cycle of 1 to 2 years.
Responsible Requestor	The party that has submitted the planned outage request.
Responsible Entity	The party that is responsible for the scheduled planned outage maintenance work.
Minor Transmission Maintenance Outage	The outage has an anticipated time required from request date: >30 days.
High Impact Transmission Outage	An outage on a Transmission line or related assets that are extremely important to the system stability.
High Impact Generation Outage	An outage on an Interconnected Facility that is vital to system stability, and or system reserves.
Minor Generation Maintenance Outage	An outage of relatively minor scope that is requested one to two weeks ahead of time and will typically be scheduled on a weekend.
Major or Minor 38 kV Transmission Maintenance Outage	The outage has an anticipated time required from request date: >30 days but less than 90 days for a Minor Outage, and > 90 days for a Major Outage.

Appendix B: Procedure Cross-Reference

Procedure Reference Matrix, Part 1 of 2	Load Forecasting	New Facility Interconnections	Resource Adequacy Planning	Retirements	G&T Demarcation & Metering	Interconnected Facilities Capabilities	Black Start	Telemetry	Data/Cybersecurity	Root Cause & Lessons Learned	Public Reporting	Performance Reporting	Stakeholder Management	Policy on Reserve
Load Forecasting														
New Facility Interconnections														
Resource Adequacy Planning														
Retirements														
G&T Demarcation & Metering														
Interconnected Facilities Capabilities														
Black Start														
Telemetry														
Data/Cybersecurity														
Root Cause & Lessons Learned														
Public Reporting														
Performance Reporting														
Stakeholder Management														
Policy on Reserves														
Reducing Risk Exposure to Contingencies														
Critical Loads														
Loads Shedding														
Contingency & System Operating Limits														
Energy Dispatch, Scheduling & Merit Order														
Transmission Operations														
Plant Level Agreement														
Balancing Frequency & Voltage														
Demand-Side Resources														
Shift System Operator Training Requirements														
Scheduling Planned T&G Outages														
Forced Outage Response														
Outage Execution & Closeout														
Emergency Response Execution														
Emergency Drills														

Scheduling Planned T&G Outages

Procedure Reference Matrix, Part 2 of 2	Reducing Risk Exposure to Contingencies	Critical Loads	Load Shedding	Contingency & System Operating Limits	Energy Dispatch, Shedding & Merit Order	Transmission Operations	Plant Level Agreement	Balancing Frequency & Voltage	Demand Side Resources	Shift System Operator Training Requirements	Scheduling Planned T&G Outages	Forced Outage Response	Outage execution & Closeout	Emergency Drills
Load Forecasting														
New Facility Interconnections														
Resource Adequacy Planning														
Retirements														
G&T Demarcation & Metering														
Interconnected Facilities Capabilities														
Black Start														
Telemetry														
Data/Cybersecurity														
Root Cause & Lessons Learned														
Public Reporting														
Performance Reporting														
Stakeholder Management														
Policy on Reserves														
Reducing Risk Exposure to Contingencies														
Critical Loads														
Load Shedding														
Contingency & System Operating Limits Response														
Energy Dispatch, Scheduling & Merit Order														
Transmission Operations														
Plant Level Agreement														
Balancing Frequency & Voltage														
Demand Side Resources														
Shift System Operator Training Requirements														
Scheduling Planned T&G Outages														
Forced Outage Response														
Outage Execution & Closeout														
Emergency Response Execution														
Emergency Drills														