

803 SASKPOWER EMERGENCY ASSISTANCE ENERGY

1. Purpose

To outline the terms and conditions for provision of emergency assistance between the Alberta balancing authority area and SaskPower, and to define the policies and procedures for the system controller (SC); and the policies for the SaskPower system operator in meeting the requirements for the exchange of emergency assistance energy.

- Deleted: control
- Deleted: S
- Deleted: C
- Deleted: S
- Deleted: O
- Deleted: ,
- Deleted: control

2. Background

Emergency assistance energy can be requested from the ISO by SaskPower or requested from SaskPower by the ISO. Emergency assistance energy is made available to assist the requesting balancing authority area when they are experiencing a system emergency. The amount of emergency energy that can be provided from the ISO to SaskPower depends on several conditions, including transmission constraints in the Empress area, the amount of supplemental and excess spinning reserves available, and the transfer capability of the McNeill DC converter station.

The interconnection between the Alberta balancing authority area and SaskPower is via the back-to-back McNeill DC converter station. Although the DC converter is rated 150 MW in either direction, the interconnection transfer capability is limited by the transmission system connected on either side of the converter. The ISO and SaskPower post the hourly transfer capability on their respective websites.

- Deleted: control

3. Policy

3.1 Requesting emergency assistance

- In the event of a system emergency, the party experiencing the system emergency, SaskPower or Alberta, may request emergency assistance from the other party.
- The party experiencing the system emergency will usually make a verbal request for emergency assistance to speed the process, given that the circumstances related to emergency assistance are usually urgent. This verbal request will be followed by written confirmation (see Section 4.1 and Section 4.2).
- The requesting party will submit an e-tag in accordance with the WECC after-the-fact (ATF) business practice after the use of emergency energy is complete.

3.2 Providing emergency assistance

The party receiving the request for emergency assistance will use reasonable efforts to supply the assistance from its own system, subject to conditions given below.

- Emergency assistance energy will be provided for up to one hour or until the requesting balancing authority area no longer requires it, whichever is the lesser.
- The balancing authority area requested to provide emergency assistance energy will not risk reliability of its own system, and specifically will not be required to:

- Deleted: ¶
- Deleted: control
- Deleted: control
- Deleted: RAFT
- Deleted: 1
- Deleted: l
- Deleted: r
- Deleted:
- Deleted: 2004-03-03

OPP 803 Saskpower Emergency Assistance Energy

- Curtail firm load.
- Reduce curtailable load, other than load used for supplemental reserve.
- Issue directive(s) for spinning reserves that result in the balancing authority area carrying less than the required amount of spinning reserve.
- Provide emergency assistance energy from regulation range service.
- Violate contingency reserve obligations to the NWPP or any other obligations to the NWPP, WECC, MRO or NERC.

Deleted: control

Deleted: MAPP

- Emergency assistance energy will be provided only from supplemental reserve and from spinning reserve that is in excess of the required amount of spinning reserve.
- The balancing authority area providing emergency assistance energy will include this energy as part of its supplemental reserve.
- Emergency assistance energy is considered interruptible and will be curtailed as required for a supply contingency in the supplying balancing authority area's system within 10 minutes from the time of the notification to the receiving balancing authority area.
- Emergency assistance energy can be curtailed when supplemental reserve is required for native load, NWPP contingency reserve obligations, or any other NWPP, WECC or MRO obligation.
- Emergency assistance energy will be supplied only to the extent that there is available transmission capacity.
- The delivery of emergency assistance energy from the Alberta balancing authority area to SaskPower must not cause the maximum Empress area load (MEAL) to be exceeded as identified in OPP 503.
- The ISO will prepare a brief written report after an event when the SC requested emergency assistance energy from SaskPower. This report will include the reason for the request and other pertinent details.

Deleted: control

Deleted: control

Deleted: control

Deleted: MAPP

Deleted: contro

Deleted: Outage Scheduling group

3.3 Settling emergency assistance

SaskPower and the ISO will settle emergency assistance. Each party will have the right to audit records of the other party pertaining to emergency assistance transactions.

4. Responsibilities

4.1 ISO

The ISO will:

- Update this Operating Policy and Procedure as required to reflect any changes that may result from implementing an interconnection agreement or other agreements, between the ISO and SaskPower.
- Prepare a brief written report about each request for emergency assistance, including the reasons for the request. This report will also fulfill the requirement for written confirmation of the emergency assistance request described in Section 3.1.

Deleted: Through its Outage Scheduling group,

Deleted: p

Deleted: RAF

Deleted: T

Deleted: 1

Deleted: l

Deleted: 2004-03-03

System Controller

The SC will:

- Use reasonable efforts (see [Section 3.2](#)) to supply the requested emergency assistance to SaskPower.
- Request emergency assistance from SaskPower in the event of a system emergency in the Alberta ~~balancing authority~~ area, when the assistance will help to mitigate the emergency, in accordance with [Section 3.1](#).
- Record emergency assistance transactions and information about these transactions.

Deleted: control

4.2 SaskPower

SaskPower will:

- Use reasonable efforts (see [Section 3.2](#)) to supply the requested emergency assistance to the Alberta ~~balancing authority~~ area.
- Request emergency assistance from the SC in the event of a system emergency in the SaskPower ~~balancing authority~~ area, when the assistance will help to mitigate the emergency, in accordance with [Section 3.1](#).
- Prepare and issue to the ISO a brief written report about each request for emergency assistance, including the reasons for the request. This report will also fulfill the requirement for written confirmation of the emergency assistance request described in [Section 3.1](#).

Deleted: control

Deleted: control

4.3 ATCO Electric Transmission Operator

The ATCO Electric ~~transmission operator~~ will operate the McNeill DC Converter station under the direction of the SC.

Deleted: T

Deleted: O

5. System Controller Procedures

5.1 Sending emergency assistance energy to SaskPower

When the SaskPower ~~system operator~~ requests emergency assistance energy, the SC will:

Deleted: S

Deleted: O

1. Determine the available Empress area transmission capacity by:
 - a. Determining the maximum Empress area load (MEAL); refer to [OPP 503](#).
 - b. Subtract the actual Empress area load, which is the AMC load value on the video wall, from the MEAL; that is:
$$\text{Available Empress area transmission capacity} = \text{MEAL} - \text{AMC load}$$
2. Determine the amount of emergency assistance energy to send to SaskPower as the lesser of:
 - a. The requested amount of emergency assistance energy.
 - b. The available Empress area transmission system capacity.
 - c. The amount of energy available from supplemental and excess spinning reserves.
 - d. The available capacity of the McNeill converter station.

Deleted: ing

Deleted: RAF

Deleted: T

Deleted: 1

Deleted: I

Deleted: 2004-03-03

Emergency System Operations
OPP 803 Saskpower Emergency Assistance Energy

3. Call the SaskPower system operator and confirm:
 - a. The amount of emergency assistance energy to be sent to SaskPower.
 - b. The new net interchange schedule amount (MW).
 - c. The ramp start time, as agreed to by both parties.
 - d. The ramp duration, as agreed to by both parties.
4. Call and notify the ATCO Electric transmission operator of:
 - a. The net interchange schedule amount (MW).
 - b. The ramp start time.
 - c. The ramp duration.
5. Issue ancillary service directives for supplemental and excess spinning reserves equal to the amount of emergency assistance energy being provided.
6. Enter the amount of emergency assistance energy sent to SaskPower in the On Demand Rights field in the System Reserve Summary display (#6800 or RES).
7. Notify Manager Tools and Applications and enter in the shift log (see [OPP 1301](#)) that emergency energy was sent to SaskPower, the time when the schedule started, the MW amount, the reason for the request (if known), and select the Major Events checkbox.

Deleted: S
Deleted: O

Deleted: T
Deleted: O

Deleted: E

5.2 Requesting emergency assistance energy from SaskPower

When emergency assistance energy is required for the Alberta balancing authority area, the SC will:

Deleted: control

1. Call the SaskPower system operator and request the amount of emergency assistance energy required, up to the import available transfer capability (ATC) on the Alberta – Saskatchewan interconnection.
2. Confirm with the SaskPower system operator:
 - a. The new net interchange schedule amount (MW).
 - b. The ramp start time, as agreed to by both parties.
 - c. The ramp duration, as agreed to by both parties.
3. Call and notify the ATCO Electric transmission operator of:
 - a. The net interchange schedule amount (MW).
 - b. The ramp start time.
 - c. The ramp duration.
4. Notify Manager Tools and Applications and enter in the shift log (see [OPP 1301](#)) that emergency energy was received from SaskPower, the time when the schedule started, the MW amount, the reason for the request and select the Major Events checkbox.

Deleted: S
Deleted: O

Deleted: S
Deleted: O

Deleted: T
Deleted: O

Deleted: Enter

Deleted: RAF

Deleted: T

Deleted: 1

Deleted: I

Deleted: 2004-03-03

5.3 Terminating or curtailing emergency assistance energy to SaskPower

The SC will:

OPP 803 Saskpower Emergency Assistance Energy

1. If a supply contingency occurs in the Alberta ~~balancing authority~~ area and curtailment of emergency assistance energy is required to recover, determine the amount to curtail and go to ~~Step 3~~.
2. After ~~one~~ hour, or upon notification from the SaskPower ~~system operator~~, discontinue sending emergency assistance energy to SaskPower.
3. Confirm with the SaskPower ~~system operator~~:
 - a. The new net interchange schedule amount (MW).
 - b. The schedule start time.
 - c. The ramp start time (assume to be ~~five~~ minutes before the scheduled start time unless otherwise agreed to).
 - d. The ramp duration (assume to be 10 minutes unless otherwise agreed to).
 - e. The integrated energy amount (MWh) for the hour(s).
4. Call and notify the ATCO Electric ~~transmission operator~~ of:
 - a. The net interchange schedule amount (MW).
 - b. The ramp start time (assume to be ~~five~~ minutes prior to schedule start time unless otherwise agreed to).
 - c. The ramp duration (assume to be 10 minutes unless otherwise agreed to).
5. Cancel or issue new ancillary service directive(s) to the supplemental and spinning reserve assets as required.
6. ~~Have SaskPower create an ATF e-tag~~ for the integrated energy amount of the emergency assistance energy sent to SaskPower.
7. Enter in the shift log (see ~~OPP 1301~~) when the schedule for the delivery of emergency assistance energy to SaskPower ended and select the Major Events checkbox.

5.4 Terminating or curtailing emergency assistance energy from SaskPower

The SC will:

1. If notified by the SaskPower ~~system operator~~ that emergency assistance energy must be curtailed, go to ~~Step 3~~.
2. Request termination of emergency assistance energy by the SaskPower ~~system operator~~ within one hour from the start of the schedule.
3. Confirm with the SaskPower ~~system operator~~:
 - a. The new net interchange schedule amount (MW).
 - b. The ramp start time (assume to be ~~five~~ minutes before the scheduled start time unless otherwise agreed to).
 - c. The ramp duration (assume to be 10 minutes unless otherwise agreed to).
 - d. The integrated energy amount (MWh) for the hour(s).
4. Call and notify the ATCO Electric ~~transmission operator~~ of:
 - a. The net interchange schedule amount (MW).

Deleted: control
Deleted: s
Deleted: 1
Deleted: S
Deleted: O
Deleted: S
Deleted: O
Deleted: 5
Deleted: T
Deleted: O
Deleted: 5
Deleted: C
Deleted: a schedule
Deleted: in the webTrans System Controller Display under the TAXA asset for the required hour(s)
Deleted: S
Deleted: O
Deleted: s
Deleted: S
Deleted: O
Deleted: S
Deleted: O
Deleted: 5
Deleted: T
Deleted: O
Deleted: RAF
Deleted: T
Deleted: 1
Deleted: I
Deleted: 2004-03-03

OPP 803 Saskpower Emergency Assistance Energy

- b. The ramp start time (assume to be five minutes before the scheduled start time unless otherwise agreed to).
- c. The ramp duration (assume to be 10 minutes unless otherwise agreed to).
- 5. Create an ATF e-tag for the integrated energy amount of the emergency assistance energy received from SaskPower.
- 6. Enter in the shift log (see OPP 1301) when the schedule for the receipt of emergency assistance energy from SaskPower ended and select the Major Events checkbox.

Deleted: 5

Deleted: a schedule

Deleted: in the webTrans System Controller Display, under the TAIA asset for the required hour(s)

6. Revision History

Issued	Description
2009-	Supersedes 2004-03-03
2004-03-03	Supersedes 2003-07-28
2003-07-28	Revised to ISO Operating Policies and Procedures

Deleted: RAF

Deleted: T

Deleted: 1

Deleted: I

Deleted: 2004-03-03