
Communicating with the IESO – Dispatchable Generators

IESO Training

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This guide has been prepared to assist in the IESO training of market participants and has been compiled from extracts from the market rules or documents posted on the web site of Ontario's Independent Electricity System Operator. Users of this guide are reminded that they remain responsible for complying with all of their obligations under the market rules and associated policies, standards and procedures relating to the subject matter of this guide, even if such obligations are not specifically referred to herein. While every effort has been made to ensure the provisions of this guide are accurate and up to date, users must be aware that the specific provisions of the market rules or particular document shall govern.

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1. Introduction

Effective communication is the most important tool the IESO has in maintaining the reliability of the IESO-controlled grid¹ and operating the markets so information exchange is key.

Although the IESO receives thousands of bits of data every few seconds, there are many situations that only Market Participants (MPs) can see. The MP's information can alert the IESO about, or confirm the seriousness of a situation and help the IESO make the right decision as quickly as possible. Examples of this type of information include local electrical storms, grass fires, high winds, and ice build-up on structures. It is also essential for the IESO to be informed about circumstances that have the potential to impact the future operation of an MP's facilities.

This guide covers:

- Timelines and reasons for these timelines
- Communication principles and protocols
- Communication requirements during normal and abnormal operating states
- How the IESO and Market Participants communicate in real-time

¹ In this document, 'grid' means the IESO-controlled grid. 'Markets' means the IESO-administered markets.

2. Communication Timelines

Events on the power system happen quickly. When there is an unexpected event on the power system (a 'contingency'), the system is not as strong as it was before the event. The IESO needs to re-prepare, i.e., get ready to face the next event as soon as possible.

The longer the IESO spends time in a degraded state, the more vulnerable it is to the effects of another contingency. Often, contingencies take place during severe weather, so the likelihood of another event is higher than normal.

2.1 Reliability standards

Reliability standards require the IESO to re-prepare the system within 30 minutes during normal conditions and within 15 minutes during high-risk conditions, such as an electrical storm. In these short periods, the IESO must gather information from MPs, make a plan and execute it. As the user of this guide can see, timely communication from the involved MPs is vital if the IESO is to meet re-preparation times and minimize exposure to this increased risk.

2.2 The Market Participant's role

The IESO may direct an MP to take an action 'promptly' or 'immediately'. When the IESO uses these terms, it means:

Note: As soon as possible, but no longer than 5 minutes after receiving direction or recognizing the need to take an action².

The IESO will communicate this type of direction to the MP by telephone.

² As outlined in the Market Rules: Chapter 5, Section 1.2.5.

3. Communications Principles and Protocols

The IESO's goal is to facilitate open, timely communication. Clear communication is paramount during both normal and abnormal conditions. It is important that both the IESO and MPs understand all communications.

Because of unconscious editing, technical term misunderstanding, or technical problems, the receiver (whether the IESO or an MP) must repeat the message back to the sender to ensure that the message has been received and is understood correctly.

3.1 Guidelines

- Avoid using first names on a conference call - address individuals by station or site name.
- Be concise and precise - provide only the information that is related to the purpose of the call.
- Give complete attention to the call.
- To avoid any misunderstandings, use official industry operating terms.
- Avoid using jargon that may only be understood within the MP's own company. Please refer to [Market Manual 7.6: Glossary of Standard Operating Terms](#) for a list of approved operating terms.
- An MP should identify their company and the location they are calling from. (since some MPs have more than one location).
- Avoid discussions about real-time price, market conditions, and other confidential/sensitive information.

3.2 Where to MP Find Communications Protocols

Communication protocols with the IESO are in the market rules and market manuals, available on the [Market Rules and Manuals Library webpage](#):

- [Market Manual 7.1](#) contains much of the material covered in this guide
- [Market Manual 7.6](#) lists approved operating terms

Note: An MP may also have protocols with their transmitter or distributor defined in the transmission system code, operating agreements and connection agreements.

4. Communicating During a Normal Operating State

4.1 Normal Operating conditions

The grid is in a normal operating state when the IESO has:

- Fair weather conditions
- No security limits or thermal limits being exceeded
- Sufficient energy and capacity to meet the forecast demand
- No emerging reliability concerns within Ontario or in neighbouring jurisdictions that could affect our area

The grid is in the normal operating state most of the time.

4.2 Communicating with the Transmitter

An MP has communication obligations with their transmitters, as outlined in their connection agreement. These obligations include coordination of switching or outage timing requirements and work protection. The IESO may also be involved in some of these discussions.

4.3 Communicating with the IESO

There are things that an MP must communicate directly to the IESO – even if the MP also communicated them to their transmitter – such as:

- System reliability information
- Outage notification
- Approvals for switching equipment in and out of service
- Market dispatch information

The MP is encouraged to contact the IESO whenever they have something relevant to communicate.

4.4 When to call Markets or System

The IESO's control room has two broad areas of responsibility. Both sides of the room deal with different aspects of operating the markets and power system, but work together to ensure they are integrated:

- **Markets:** maintains the balance between supply and demand through market mechanisms and manages generator outages.
- **System:** maintains transmission system reliability and/or recovery following disturbances and manages transmission equipment outages.

Note: Markets and System have different phone numbers. The IESO supplies them to the MP upon market registration — the MP can also get them by contacting their Business Advisor.

Markets

The IESO Market operators should be called immediately for the following events:

- An MP is unable to follow their dispatch target — there are times when processes or equipment may limit an MP from following their dispatch instructions. When this happens, the IESO's algorithm needs to dispatch other resources up or down to make up the difference.
- An MP is unable to supply operating reserve according to their schedule — the IESO needs to know immediately if an MP cannot supply their scheduled operating reserve.
- For dispatch data inquiries or changes within the mandatory window.
- To request final five-minute approval to synchronize or de-synchronize.
- To derate equipment.
- To request final approval for a generator planned outage.
- To request advanced approval to synchronize or de-synchronize the MP's generator (follow the timelines on page 14).
- An MP is unable to comply with their start-up or shutdown notice, if they are a Generator Offer Guarantee (GOG)-Eligible Resource.
- For potential operating concerns such as ice build up in the MP's fore-bays that could potentially limit their future generation output if outdoor air temperatures continue to drop — another example is higher ambient temperatures that will reduce their maximum output.
- To invoke the Spare Generation On-line (SGOL) program — this option applies to non-quick-start dispatchable generators. For more SGOL information, please refer to Quick Take #9, available on our [Training Materials](#) web pages.

System

Call the IESO's System operators immediately for the following events:

- Unscheduled generation step changes due to equipment problems or malfunctions.
- To request final approval for a planned outage to a main transformer. Recall that MP's communicate generator outage information to the Markets side of the room, but the System side assesses and approves transmission system elements such as directly connected main transformer outages.
- To report any reliability-related information, such as grass fires, electrical storms, ice build-up.

Note: Often MPs are the only ones who know the specifics of a particular situation. An MP's prompt communication with the IESO can help avert an event that would otherwise adversely affect the grid.

5. Communicating During an Abnormal Operating State

5.1 Abnormal Operating Conditions

An abnormal operating state exists any time the IESO is not in a normal condition, including when:

- The IESO declares an emergency, or
- The IESO declares a high-risk operating state, or
- After a contingency (i.e., an unexpected event on the power system).

5.2 Who to communicate

In abnormal operating conditions, such as after a contingency, the IESO is an MP's first point of contact.

- The IESO will assess, co-ordinate and direct the restoration of equipment when it is safe to do so, conferencing all involved parties.

5.3 When to Call Markets or System

In abnormal operating conditions, such as after a contingency, the IESO is the MP's first point of contact.

The IESO will assess, co-ordinate and direct the restoration of equipment when it is safe to do so, conferencing in all involved parties.

Markets

During abnormal conditions, MPs should call the IESO Market operators immediately for the following events:

- Problems with the dispatch communication system.
- Delays in the MP's plans to synchronize or de-synchronize because of process or equipment problems.

System

During abnormal conditions, MPs should call the IESO System operators immediately for the following events:

- Partial or total loss of potential
- Any degradation of auxiliary equipment that reduces grid reliability (such as automatic voltage regulator problems)
- Abnormal or fluctuating system voltage

- Unexpected step changes to the MP's reactive power output (MVARs) Operation of any special protection systems
- Unscheduled step changes in a generation unit's output of greater than 50 MW or 10 MVAR
- Deratings in a generation unit's output of greater than 50 MW or 10 MVAR
- Automatic removal from service of generation, or generation resources of 20 MW nominal capacity or greater
- Operation of power system auxiliaries such as RASs;
- Unavailability of any generation units that are included in operating reserve
- If the MP experiences a frequency excursion outside the range of 59.8 Hz to 60.2 Hz (frequencies outside this range usually indicate that the MP is part of an electrical island).

In abnormal operating conditions, the IESO is the MP's first point of contact. The MP may contact their own authority control center as long as doing so does not delay the phone call to the IESO.

If the MP's call is due to a contingency, the IESO will assess, co-ordinate and direct the restoration of any equipment. Typically, the IESO will conference call with all affected parties, including the MP's transmitter or distributor if necessary.

5.4 Multi-party Communications

Due to the integrated nature of the power system, there are many situations where the IESO needs to speak with a number of different participants at the same time via a conference call.

As an involved party, it is essential that the MP remains on the line while these discussions take place. Failure to do so may delay restoration or prevent resolution of the operating problem.

For example, assume an MP is fed off a two-line supply, and one of them is automatically removed from service. For safety reasons, the IESO cannot restore the circuit until we have spoken with all the tapped participants.

If an MP does not call the IESO and the IESO cannot reach them, the line will remain out of service, subjecting all the participants, including the directly impacted MP, to increased risk as the MP will remain on single line supply until the IESO can reach them.

5.5 Communicating with the IESO During a Contingency

Who to call

- Call the IESO system control room operator promptly when a grid disturbance occurs, and provide information on the cause (if known) and effect of the contingency on the MP's facility and equipment.
- The IESO will conference all affected parties. During phone conferencing, MPs remain on the line until the IESO ends the call. Remember that your information is important to the IESO in building the plan for recovery to normal operation.

Communicating with the IESO

Whether an MP speaks with the IESO system control room operator or is re-directed to a voice mailbox³, the IESO needs key information from the MP:

- Identify the MP
- Identify the MP's company and facility location
- Identify the reason for the MP's call
- Have key information available (as outlined below)

The Information the MP should provide

- Time of the event
- Status of the MP's facility and equipment
- What the MP observed – were there any indications prior to the trip that something was happening on the grid
- If the MP has any indication of likely cause
- Any concerns about returning equipment to service
- Other urgent equipment, safety, or environmental concerns

What to Leave on the IESO's voice mail

The IESO telephone system prioritizes calls during disturbances. When this happens, an MP's call may be re-directed to voice mail:

- It is important to leave all relevant information on the recording and the IESO will return the MP's call as soon as possible. Please note that due to the volume of calls the IESO receives during disturbances, unless the MP's conditions change, one phone message is sufficient.
- An MP may elevate themselves in the IESO's phone queue if the MP has urgent information concerning public safety, danger to the environment, or risk of equipment damage.

The MP's message should include:

- The MP's identity, company and facility location
- The reason for the MP's call
- Information on the cause or impact of the disturbance and the status of the MP's equipment

Be prepared for the IESO's follow-up-call.

Next Steps

The IESO will use all available information from an MP and other affected participants to build a plan for recovery to restore the system to normal operation as soon as possible:

- Follow the IESO's directions to restore equipment

³ The caller may be directed to a voice mailbox only during large scale or widespread disturbances.

- Resume normal operation when the IESO confirms it is safe to do so
- Call the IESO if an MP knows of any post-event issues that may affect the grid or the markets or if the MP discovers anything that could help reveal the cause of the disturbance

The MP's information is a very important part of building the IESO's restoration plan. It is important that the IESO is able to communicate with every participant on a circuit before re-energizing that circuit

If the IESO cannot speak with an MP, restoration may be delayed. That is why it is important that MPs' contact numbers are up to date in the IESO's registration database. If an MP's information is not up to date, the MP should contact their Business Advisor and update the information in [Online IESO](#). An Applicant Representative of the registered organizations can add or remove contract roles in Online IESO. To update contact roles, please refer to the [Step By Step For Adding a Contact Role](#) document.

5.6 Communicating when a Facility has a Loss of Potential

What happens if an MP's facility loses all potential? The blackout could be localized or could affect a large area. Regardless of the extent, the MP must call the IESO immediately.

Call the IESO System control room operator promptly, following the same steps as the MP would for a contingency. Keep in mind that:

- During a widespread disturbance MPs will probably be unable to talk with the IESO directly.
- The IESO's telephone system prioritizes calls during disturbances. When this happens, MP's calls may be re-directed to voice mail. As with contingencies, it is important that an MP leaves all their information on the recording and the IESO will return the MP's call as soon as possible. The MP may also elevate themselves in the IESO's phone queue they have urgent information concerning public safety, danger to the environment, or risk of equipment damage.
- In the meantime, MPs should take their pre-approved independent actions on loss of potential following the Ontario Power System Restoration Plan. Call the IESO promptly to let the IESO know the status and capability of the MP's generators and auxiliaries – the IESO needs to know the rate the MP can generate at (MW/min).

The IESO will call the MP when restoration has proceeded to the point where the IESO is able to allow the MP's generation back onto the system.

- Resume normal operation when the IESO confirms it is safe to do so
- Call the IESO if the MP knows of any post-event issues that may affect the grid or the markets

5.7 Post-contingency Communications

The information an MP provides is very important for system reliability. Post contingency, the IESO needs to know:

- **Equipment status or concerns:** Has the MP's equipment been forced out of service for a long period? Does the MP have any concerns about equipment damage?
- **System status:** Does the MP have any voltage or thermal concerns? Has the MP noticed any abnormal frequency excursions? Has the MP's facility suffered any load loss?

- What annunciations can the MP provide to the IESO – such as relay protection sealed-in? This can help the IESO piece together the cause of an event.
- Has the MP had any operation of any special protection schemes or system auxiliaries (e.g., under-frequency load shedding)?
- Does the MP have any urgent environmental concerns that could become a major disaster?
- Indications of fault severity (if the MP has digital fault recorders installed within their operation, communicating this information is very important, e.g., how did the MP's generating unit respond during this disturbance, etc.).
- The MP's assessment of return to service of their equipment and any potential causes, if they are known.
- Any information relevant to security of the grid or concerns before a restoration attempt is made; e.g., equipment limitations, environmental conditions, etc.
- If the contingency involves other market participants' equipment – the IESO will discuss with all parties before a restoration attempt (this is why it is important for the IESO's facility registration database to have an MP's up-to-date contact information).

6. IESO-initiated Communications

There are circumstances when the IESO may call an MP to do something during normal or abnormal conditions.

Communications from the IESO are normally via approved communication through an MP's authority centre, if they have one, in accordance with the market rules. However, there are reasons and situations where the IESO communicates directly with the MP. For example:

- The IESO will contact an MP when they are not following their dispatch instructions (the target the MP follows is their dispatch instruction). Dead-bands allow for discrepancies in plant processes that may alter their ability to follow their dispatch. If the MP cannot follow their dispatch within the dead-band, they must call to let the IESO know.
- The IESO may call an MP to request reactive power output adjustments. Market participation stipulates that synchronous generators must respond from 0.9 lagging to 0.95 leading power factor in support of system voltage. The IESO may require additional reactive power for voltage support in an MP's area and may call them to request more MVARs from their generator.
- The IESO may receive a dispatch at mid-interval instructing an MP to increase or decrease their power output. Examples of these may be one-time dispatches or operating reserve activations.
- The IESO may call an MP directly to request generation maneuvers to mitigate limit exceedances during emergency operating states or after a contingency.

During these times, prompt response to the IESO's requests is important. Although it does not happen often, the IESO may request that an MP remove their unit from service immediately.

[The IESO issues Advisory Notices](#) that also alert the MP to market and system related events, such as an emergency operating state.

6.1 How the IESO communicates with MPs

Telephone

The telephone is the IESO's most common means of communication.

The IESO does not physically operate equipment. Rather the IESO directs the operation of the IESO-controlled grid. It is through telephone communication with MPs that the IESO gets things done. During the MP registration process, the IESO provided all the phone numbers an MP needs to communicate with the IESO. If an MP wishes to confirm any of these numbers, they can contact [Customer Relations](#).

Advisory Notices and Adequacy Reports

The IESO releases [Advisory Notices](#), if required, throughout the day and posts them on the IESO website . These notices allow the IESO to present information that is not addressed through the Adequacy Report. Notices are intended to provide this information for an event that is deemed significant or any change that is not captured through regularly scheduled publication of reports.

[Adequacy Reports](#) list the hourly forecast demand, system capacity and energy

(Please refer to Market Manual 7.2, available on our [Market Rules and Manuals Library](#) web page, for details.)

7. Synchronizing and De-synchronizing

7.1 Quick-start generators

Quick-start generators can synchronize to the grid and reach their dispatch target within one 5-minute interval. (Typically, hydroelectric generators fall into this category.)

- An offline quick-start unit that receives and acknowledges a dispatch instruction does not need to call the IESO to provide a synchronizing notice unless the MP is returning from an outage.
- Quick-start units do need to call the IESO 5 minutes before de-synchronizing.

7.2 Non-quick-start dispatchable generation

All other dispatchable generations are considered non-quick-start, but can be categorized as two resource types, GOG-Eligible and Non-GOG-Eligible resources.

GOG-Eligible Non-quick-start dispatchable generation

These resources must call the IESO:

- 5 minutes before intended synchronization or desynchronization of the resource.
- If the MP is rejecting a Start or Decommitment notification.

Non-GOG-Eligible Non-quick-start dispatchable generation

These resources must call the IESO:

- 2 hours before synchronizing for the proposed synchronization plan
- 5 minutes before intended synchronization or desynchronization of the resource
- 1 hour before de-synchronizing

Unless there is a reliability concern with an MP's synchronization or de-synchronization request, the IESO will approve the request. After approval, if the MP's conditions change, they need to let the IESO know.

If an under-generation system advisory notice is in force, the IESO may reduce the required notification time.

8. Skill Check

8.1 Questions

1. The MP's generator develops a limitation that prevents them from providing their scheduled operating reserve. The MP expects the situation to last 15 minutes. What communication, if any, should they initiate?
 - a) No communication needed. This is only a concern when the IESO activates operating reserve.
 - b) Call the IESO immediately. The IESO needs to know if the MP is capable of providing their portion of the operating reserve if a contingency occurs.
 - c) Call the IESO only if the MP cannot correct the problem in 15 minutes.
2. Which of the following statements about communication requirements for synchronizing and de-synchronizing dispatchable generators are true?
 - a) Quick-start units do not need to call the IESO prior to synchronizing (unless returning from an outage).
 - b) Quick-start units do need to call the IESO prior to de-synchronizing.
 - c) Non-quick-start units need to call the IESO 2 hours prior to synchronizing.
 - d) Non-quick-start units need to call the IESO 1 hour prior to de-synchronizing.
 - e) Non-quick-start units need to call the IESO 1 hour prior to synchronizing.
 - f) Non-quick-start units need to call the IESO 5 minutes prior to synchronizing or de-synchronizing.
3. Which of the following situations require the MP to call 'Markets'?
 - a) Inability to follow the MP's dispatch instructions within the applicable deadband
 - b) Inability to supply scheduled operating reserve
 - c) A sudden step change in generator output
 - d) Automatic removal from service of the MP's generator
 - e) To request advanced approval to synchronize/de-synchronize
 - f) To derate the MP's generator
 - g) To request final approvals to synchronize/de-synchronize

4. The MP has received a credible sabotage threat while their generating facility is shut down for planned maintenance. Should the MP call to inform the IESO?
 - a) No, this is a local problem that affects only the MP's facility.
 - b) Yes. the IESO encourages communication of unusual events that could become bigger issues affecting grid reliability, public safety, equipment or the environment.
 - c) No, since the MP's facility was not generating at the time of the threat.

5. The MP's facility is without potential due to a grid contingency. They have no urgent environmental, personnel safety or equipment concerns, but they want to know what happened and when to re-synchronize. Upon calling the IESO 'System' control room number, you get a recorded message. What should the MP do next?
 - a) Elevate the MP's priority in the IESO's telephone queue to find out when the power will be restored.
 - b) Leave a detailed message, and implement the MP's independent control actions in preparation for the IESO phone call.
 - c) Keep calling and leave as many messages as it takes.
 - d) Keep calling until the MP speaks with an IESO system control room operator.

6. It is a normal day at the MP's facility when they receive a call from the IESO 'System' operator requesting an immediate generation reduction of 100 MW to mitigate a limit exceedance. How should the MP respond?
 - a) Begin implementing the reduction immediately unless the MP has any urgent personnel safety, equipment damage or environmental issues.
 - b) Get the MP's management's approval before initiating the reduction, then call the IESO back.
 - c) Look for a system status report for verification of an emergency condition before initiating the request.

7. The MP is experiencing fluctuating grid voltages. They suspect the cause is from the neighbouring manufacturing facility. Who does the MP call for more information about the cause?
 - a) The MP's transmitter
 - b) IESO 'System'
 - c) The MP's local distribution company
 - d) The neighbouring manufacturing facility
 - e) IESO 'Markets'

8. Which of the following situations require the MP to call 'System'?
- a) To invoke the Spare Generation Online (SGOL) program
 - b) Loss of generation due to equipment problems or system events
 - c) For abnormal voltage and/or frequency
 - d) Final approval to synchronize/de-synchronize
 - e) Derate the MP's generator
 - f) To report any reliability-related information (i.e., grass fires, electrical storms, ice build-up)
9. There has been a contingency resulting in a loss of potential on one of the two transmission lines the MP is connected to. Who does the MP call first?
- a) IESO 'System'
 - b) Their transmitter
 - c) Their authority operating center
 - d) Their local distributor
 - e) No need to call anyone. The circuit will be returned to service as soon as possible
 - f) IESO 'Markets'

8.2 Answers

1. The MP's generator develops a limitation that prevents them from providing their scheduled operating reserve. The MP expects the situation to last 15 minutes. What communication, if any, should they initiate?
 - a) No communication needed. This is only a concern when the IESO activates operating reserve.
 - b) Call the IESO immediately. The IESO needs to know if the MP is capable of providing their portion of the operating reserve if a contingency occurs. ✓**
 - c) Call the IESO only if the MP cannot correct the problem in 15 minutes.

2. Which of the following statements about communication requirements for synchronizing and de-synchronizing dispatchable generators are true?
 - a) Quick-start units do not need to call the IESO prior to synchronizing (unless returning from an outage). ✓**
 - b) Quick-start units do need to call the IESO prior to de-synchronizing. ✓**
 - c) Non-quick-start units need to call the IESO 2 hours prior to synchronizing. ✓**
 - d) Non-quick-start units need to call the IESO 1 hour prior to de-synchronizing. ✓**
 - e) Non-quick-start units need to call the IESO 1 hour prior to synchronizing.
 - f) Non-quick-start units need to call the IESO 5 minutes prior to synchronizing or de-synchronizing. ✓**

3. Which of the following situations require the MP to call 'Markets'?
 - a) Inability to follow the MP's dispatch instructions within the applicable deadband ✓**
 - b) Inability to supply scheduled operating reserve ✓**
 - c) A sudden step change in generator output
 - d) Automatic removal from service of the MP's generator
 - e) To request advanced approval to synchronize/de-synchronize ✓**
 - f) To derate the MP's generator ✓**
 - g) To request final approvals to synchronize/de-synchronize ✓**

4. The MP has received a credible sabotage threat while their generating facility is shut down for planned maintenance. Should the MP call to inform the IESO?
 - a) No, this is a local problem that affects only their facility.
 - b) Yes. The IESO encourages communication of unusual events that could become bigger issues affecting grid reliability, public safety, equipment or the environment. ✓**
 - c) No, since their facility was not generating at the time of the threat.

5. The MP's facility is without potential due to a grid contingency. The MP has no urgent environmental, personnel safety or equipment concerns, but they want to know what happened and when to re-synchronize. Upon calling the IESO's 'System' control room number, they get a recorded message. What should the MP do next?
 - a) Elevate the MP's priority in our telephone queue to find out when the power will be restored.
 - b) Leave a detailed message, and implement the MP's independent control actions in preparation for the IESO's phone call. ✓**
 - c) Keep calling and leave as many messages as it takes.
 - d) Keep calling until the MP speak with an IESO system control room operator.

6. It is a normal day at the MP's facility when they receive a call from the IESO's 'System' operator requesting an immediate generation reduction of 100 MW to mitigate a limit exceedance. How should the MP respond?
 - a) Begin implementing the reduction immediately unless the MP has any urgent personnel safety, equipment damage or environmental issues. ✓**
 - b) Get the MP's management's approval before initiating the reduction, then call the IESO back.
 - c) Look for a system status report for verification of an emergency condition before initiating the request.

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 - d) The neighbouring manufacturing facility
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 - e) Derate the MP's generator
 - f) To report any reliability-related information (i.e., grass fires, electrical storms, ice build-up) ✓**
9. There has been a contingency resulting in a loss of potential on one of the two transmission lines the MP is connected to. Who does the MP call first?
- a) IESO 'System' ✓**
 - b) The MP's transmitter
 - c) The MP's authority operating center
 - d) The MP's local distributor
 - e) No need to call anyone. The circuit will be returned to service as soon as possible
 - f) IESO 'Markets'

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