

PROCEDURE



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**Enhanced Day-Ahead
Commitment
(EDAC)**

Market Manual 9

**Part 9.4: Real-Time
Integration of the Day-
Ahead Commitment
Process**

EDAC Issue 4.0

This procedure provides guidance to Market Participants on the Real-Time integration of the Day-Ahead Commitment Process.

This document includes changes to the Day-Ahead Commitment Process due to the EDAC project.

(This page must be removed before the market manual is released to the IESO Baseline Management process. This page is only pertinent to the EDAC project.**)**

EDAC Disclaimer

This is an internal EDAC project document. *Market participants* and *IESO* operations shall not use this document as a reference for their operations. The existing “*Market Manual 9 – Day-Ahead Commitment Process Operations and Settlement*”, available on IESO website (<http://www.ieso.ca/imoweb/manuals/marketdocs.asp>), shall be used by *market participants* and IESO until otherwise notified by the IESO.

Background

The purpose of this document is to revise the existing “*Market Manual 9 – Day-Ahead Commitment Process Operations and Settlement*” based on the changes introduced by the EDAC project and to prepare the *market manual* for formal release under the IESO Baseline Management process.

This document is controlled under EDAC project baseline management process. Therefore, the document versioning, i.e., issue number, follows the EDAC document versioning standards which, is different from the IESO Baseline Management versioning.

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PROCEDURE

**Market Manual 9: Day-Ahead
Commitment Process**

**Part 9.4: Real-Time
Integration of the DACP**

Issue 1.1

This procedure provides guidance to *Market Participants* on the submission of *dispatch data* in the *Real-Time Energy* and *Operating Reserve Markets*.

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This *market manual* may contain a summary of a particular *market rule*. Where provided, the summary has been used because of the length of the *market rule* itself. The reader should be aware, however that where a *market rule* is applicable, the obligation that needs to be met is as stated in the “*Market Rules*”. To the extent of any discrepancy or inconsistency between the provisions of a particular *market rule* and the summary, the provision of the *market rule* shall govern.

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Table of Contents

List of Figures	iii
List of Tables	iv
Table of Changes	v
1. Market Manuals	1
2. About this Manual	2
2.1 Conventions	2
3. Introduction	3
3.1 Purpose.....	3
3.2 Scope	3
4. Post Day-Ahead Commitment Processes	4
4.1 Observing Day-Ahead Commitments in Real Time.....	4
4.1.1 Reliability Constraints	4
4.1.2 Passing DACP Commitments to Real Time	4
4.2 De-commitment and Withdrawal.....	6
4.2.1 Withdraw Dispatch Data	6
4.2.2 IESO De-commitment of Dispatchable Generators	7
4.2.3 Day-Ahead Production Cost Guarantee Impact	7
4.3 Day-Ahead Intertie Transactions.....	8
4.4 Real-Time Market Integration	8
4.4.1 Pseudo Unit Offer Submission—Real Time	8
4.4.2 Minimum Loading Point Price Cap	9
4.5 Submit Dispatch Data.....	9
4.5.1 Non-dispatchable Generators	9
4.5.2 Dispatchable Loads and Dispatchable Generators	9
4.5.3 Imports and exports	10
4.5.4 Availability Declaration Envelope for Dispatchable Generators and Dispatchable Loads	10
4.5.5 Submit Outage Requests.....	12
4.5.6 Submit Outage Cancellation Requests	12
4.6 Synchronize Units Committed in the Day-Ahead	12
5. Procedures for Real-Time Integration of the DACP	14
5.1 Withdraw Offers for a Committed Resource.....	15
5.1.1 Withdraw Offers for a Committed Resource – Procedure.....	15
5.1.2 Workflow for Withdraw Offers for a Committed Resource	15

5.1.3	Procedural Steps for Withdraw Offers for a Committed Resource	17
5.2	Respond to IESO Request for De-commitment	19
5.2.1	Respond to IESO Request for De-commitment—Procedure.....	19
5.2.2	Work Flow for Respond to IESO Request for De-commitment.....	19
5.2.3	Procedural Steps for Respond to IESO request for De-commitment.....	21

List of Figures

Figure 5-1: Withdraw Offers for a Committed Resource 16
Figure 5-2: Workflow for Respond to IESO Request for De-commitment.....20

EDAC Draft

List of Tables

Table 2-1: Table of Contents—Market Manual 9.0	2
Table 4-1: Combined Cycle Plant DACP Commitments	6
Table 5-1: Applicability of Procedures	14
Table 5-2: Workflow Diagram Legend	15
Table 5-3: Procedural Steps Legend.....	17
Table 5-4: Procedural Steps for Withdraw Offers for a Committed Resource	18
Table 5-5: Procedural Steps for Respond to IESO Request for De-commitment.....	21

Table of Changes

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1. Market Manuals

The *market manuals* consolidate the market procedures and associated forms, standards, and policies that define certain elements relating to the operation of the *IESO-administered markets*. Market procedures provide more detailed descriptions of the requirements for various activities than is specified in the "*Market Rules*". Where there is a discrepancy between the requirements in a document within a *market manual* and the *market rules*, the *market rules* shall prevail. Standards and policies appended to, or referenced in, these procedures provide a supporting framework.

– End of Section –

2. About this Manual

The “Day-Ahead Commitment Process” is Volume 9 of the *market manuals*, where this document forms “Part 9.4: Real-Time Integration of the Day-Ahead Commitment Process”.

The “Day-Ahead Commitment Process Manual” is composed of the following document set:

Table 2-1: Table of Contents—Market Manual 9.0

Document ID	Part No.	Name of Procedure Document
IESO_MAN_0041	9.0	Day-Ahead Commitment Process Overview
IESO_MAN_0076	9.1	Submitting Registration Data for the Day-Ahead Commitment Process
IESO_MAN_0077	9.2	Submitting Operational and Market Data for the Day-Ahead Commitment Process
IESO_MAN_0078	9.3	Operation of the Day-Ahead Commitment Process
IESO_MAN_0079	9.4	Real-Time Integration of the Day-Ahead Commitment Process
IESO_MAN_0080	9.5	Settlement of the Day-Ahead Commitment Process

2.1 Conventions

The *market manual* standard conventions are as defined in “Part 9.0: Day-Ahead Commitment Process”, Section 2.4 Conventions.

– End of Section –

3. Introduction

3.1 Purpose

This document provides you with the procedures associated with the interaction of the Day-Ahead Commitment Process with real time. These procedures describe the *market participant* actions required to manage the commitments received from the Day-Ahead Commitment Process (DACP) in real time.

3.2 Scope

This *market manual* provides a summary of the steps and interfaces between you and the *IESO* after the completion of the DACP. The procedural workflows and steps described in this document serve as a roadmap for you and the *IESO*, and reflect the requirements set out in the *market rules* and applicable *IESO* policies and standards.

The overview information in Section 4 is provided for context purposes only and includes the main actions of the procedures as set out in Section 5.

This *market manual* describes the procedures to withdraw from a commitment received during the DACP and to interact with us when you are required to de-commit a *generation unit*.

– End of Section –

4. Post Day-Ahead Commitment Processes

This section describes the processes that take place after the Day-Ahead Commitment Process (DACP) and their interaction with real time.

4.1 Observing Day-Ahead Commitments in Real Time

If you are eligible for the Day-Ahead Production Cost Guarantee (DA-PCG) and you submitted *offers* into the DACP, you are deemed to have accepted the DA-PCG for your resources. You cannot call us to reject the guarantee to remove the day-ahead constraints on your resources. To remove constraints, you must complete the withdrawal process as described in Section 4.2.

DA-PCG eligible dispatchable generation resources that are committed by the Day-Ahead Calculation Engine (DACE) have constraints applied that will be observed in the Pre-dispatch and real-time scheduling processes. For each committed generation resource, we apply a minimum constraint for its submitted *minimum loading point* (DGD MLP) for the hours where it received a day-ahead schedule.

Therefore, the resource will be scheduled and dispatched to a quantity no lower than its *minimum loading point* (MLP). A committed unit will not be dispatched below its MLP unless we approve a withdrawal request or require de-commitment for *reliability*.

4.1.1 Reliability Constraints

We will only apply *reliability* constraints if we consider our intervention necessary in order to ensure or maintain *reliability*¹. We will allow the market to try to resolve any identified adequacy issues prior to applying *reliability* constraints.

Reliability constraints for *adequacy* are not applied until after the DACP process has completed.

4.1.2 Passing DACP Commitments to Real Time

When passing DACP commitments to real time (RT), committed production cost guarantee (PCG) eligible *generation units* have constraints applied in the Pre-dispatch and the RT scheduling processes. We apply minimum *generator* constraints for the generator's submitted DGD MLP for a period equal to its day-ahead schedule. These constraints will be available for use in the Pre-dispatch starting with the 15:07 run. You cannot reject the DACP commitment in order to remove the constraints.

If IESO tool problems prevent us from making your day-ahead commitments available for the 15:07 pre-dispatch run, we will notify you of the delay and your commitments report will not be issued. When our tools are made available, we will make your commitments available to pre-dispatch by applying the necessary constraints and your commitments report will be issued at that time.

¹ *Reliability* means *security* and *adequacy* (both local and global).

In the period when your day-ahead commitments are not available to pre-dispatch, you should offer in a way that will result in a pre-dispatch and real-time schedule that reflects your day-ahead commitment and will result in the desired DA-PCG treatment.

4.1.2.1 DACP Commitments – PCG-Eligible Generators (Not a Combined Cycle Plant)

PCG-eligible resources (including physically aggregated resources) that have not been identified as a part of a combined cycle plant can be determined by the following:

- A set of *generators* deemed PCG-eligible through registration
- Minus the *generators* recorded to be a steam turbine (ST) of a combined cycle plant
- Minus the *generators* deemed to have an association with ST resources.

Every *generator* that has been identified as PCG-eligible but is not part of a combined cycle plant will have constraints applied based on the daily generator data (DGD) *MLP*. The constraints are applied for every hour in which the generator has a non-zero day-ahead schedule in the DACP Schedule of Record.

4.1.2.2 DACP Commitments—PCG-Eligible Generators (Combined Cycle Plant)

Physically aggregated combined cycle plants will have constraints applied based on the DGD *MLP*. We apply constraints for every hour in which the generator has a non-zero day-ahead schedule in the DACP Schedule of Record.

The remainder of this section applies to PCG-eligible generators that are combined cycle plants and not physically aggregated.

Resources at a combined cycle plant that are scheduled by the DACE will be committed for use in real time. Every combustion turbine (CT) *generation unit* that is PCG-eligible and is part of a combined cycle plant has constraints applied. The applied constraints are based on the DGD *MLP* for every hour in which they have a non-zero day-ahead schedule in the DACP Schedule of Record. Every ST *generation unit* that is PCG-eligible and is part of a combined cycle plant will have constraints applied for every hour in which it has a non-zero day-ahead schedule in the DACP Schedule of Record. The constraint amount will vary by hour and is based on the number of associated CTs at the combined cycle plant, scheduled in a given hour.

The constraint will be equal to:

- For STs not using the pseudo unit (PSU) model:
 - The 1-on-1 ST DGD *MLP* whenever an associated CT is not present in the schedule² in a given hour, or where only a single associated CT is scheduled in a given hour along with the ST.
 - The *n-on-1* ST DGD *MLP* whenever *n* number of associated CTs ($n > 1$) are scheduled in a given hour along with the ST, and the ST received a day-ahead schedule equal to or greater than the *n-on-1* ST DGD *MLP*. If the ST received a day-ahead schedule that is less than the *n-on-1* ST DGD *MLP*, the ST constraint will be equal to the next lowest ST DGD *MLP* for which it was economic (lowest possible outcome is the 1-on-1 ST DGD *MLP*).

² It is possible to economically schedule a steam turbine with no combustion turbine at a combined cycle facility, even though this configuration is physically impossible.

- For STs using the PSU model:
 - The n-on-1 ST DGD *MLP* where n represents the number of PSUs operating in combined cycle mode that are scheduled in a given hour.

Table 4-1: Combined Cycle Plant DACP Commitments

# of CTs Scheduled	ST Committed to
1	MLP ₁₋₁
2	MLP ₂₋₁
...	...
N	MLP _{N-1}

4.2 De-commitment and Withdrawal

The DACE will identify the resources required to be committed for the *dispatch day*. Changes to the set of committed resources after the DACE results are passed to Pre-dispatch could impact system *reliability* and *settlement*. The following sections discuss how changes to the commitment are processed.

4.2.1 Withdraw Dispatch Data

If you are a DA-PCG eligible dispatchable *generator* that received a schedule in the DACP Schedule of Record, you may decide that it is not in your best interest to operate in real time. Therefore, you may request our approval to remove the *offers* for your *generation unit*. You must call and ask for our approval early enough to allow us to assess your request.

A dispatchable *generation unit* committed to supply *energy* cannot remove or cancel its *real-time market offers* without our approval. Removal/cancellation of offers for any hour in which a day-ahead commitment was received will be considered a request to withdraw the *offer*. If we determine that your request does not have a detrimental impact on *reliability*, we will approve it and remove the constraints applied on your unit. If you need to remove or revise your *offers*, you must do so within the provisions of Appendix C of “Market Manual 4: Market Operations, Part 4.2: Submission of Dispatch Data in the Real-Time Energy and Operating Reserve Markets”.

For committed dispatchable generation, the withdrawal request process includes a new withdrawal charge. The charge is levied when the withdrawal is within your control and it did not provide a benefit to the market as determined by the price impact. If you have done the right thing for the market, you should not receive a withdrawal charge.³

The Day-Ahead Generator Withdrawal Charge (DA-GWC) is based on a formula approach similar to the day-ahead import failure charge. It aligns the treatment of dispatchable generation withdrawal with the treatment of the import/export failure charge.

The withdrawal charge *settlement amount* is a function of the difference in price between the submitted day-ahead *energy offers* and the Ontario energy price and the MLP. The Ontario energy

³ Exception conditions include events or circumstances directly related to the *IESO-controlled grid* that are beyond the control of the *generation facility* as listed in *market rules*, CH7, Sec 7.5.3.

price used in the calculation of the DA-GWC depends on the time we received the notification of withdrawal:

- If we receive withdrawal notification at or before 4 hours prior to the first withdrawal hour in real time (PD-4), then the minimum of the hour ahead Pre-dispatch (PD-1) Ontario market clearing price and the *real-time market* clearing price is used.
- If withdrawal notification is received later than PD-4, then the *real-time market* clearing price is used.

A DA-PCG eligible *generation unit* withdrawing their *offer* (i.e., cancelling the offer) for a reason within their control, from any hour of their day-ahead commitment, must submit revised *offers* with an accompanying reason code. These revised offers must be received at least two hours prior to the *dispatch hour* and will be queued for operator approval.

If there is no reason code accompanying the revised *offer*, the submission will be automatically rejected. For withdrawals within your control, a reason code, “withdrawal”, is required.

4.2.2 IESO De-commitment of Dispatchable Generators

We will only de-commit dispatchable generation resources or imports due to *reliability* concerns, not for economics. We will continue to respect the current *market rules* treatment related to compensation.

A dispatchable *generator* that we de-commit is eligible for fuel cost compensation as described in Part 9.5 of this manual, “Settlement of the Day-Ahead Commitment Process”.

4.2.2.1 De-commitment actions

As we approach real time, we may identify *reliability* concerns, such as over-generation caused by failed exports, which can only be resolved by de-committing *generation units* that were constrained on in the day-ahead timeframe.

De-commitment means that we remove the minimum constraints applied on your dispatchable *generation unit* either before or after synchronization. If, within an hour, we constrain your unit to zero, we may ask you to remove or revise your *offers* in subsequent hours.

We will de-commit your unit only for *reliability* reasons and only after we call to inform you of our intention to remove the constraints applied to your unit.

4.2.3 Day-Ahead Production Cost Guarantee Impact

A dispatchable *generator* that is de-committed midway through a day-ahead schedule will receive a PCG for the completed portion of their day-ahead schedule. For more information related to the *settlement* treatment of a de-commitment, refer to “Market Manual 9: Part 9.5—Settlement of the Day-Ahead Commitment Process”.

If you withdraw your *offers* for a dispatchable *generator* for any hour in which a day-ahead commitment was received, and the withdrawal is within your control, the resource is not eligible to receive a DA-PCG.

If a PCG-eligible *generation unit* is not scheduled as a result of circumstances outside of your control, (e.g., *forced outage* or grid incapability), the PCG is prorated to the part of your DACP schedule that was delivered in real time.

4.3 Day-Ahead Intertie Transactions

There will be no change to the Pre-dispatch scheduling process which determines the economic schedules for interchange used in the Transaction Checkout Process in real time.

We expect that you will *offer* or *bid* in the *real-time market* in order to have your transactions scheduled in an amount equal to your DACP committed and scheduled quantities. This includes both legs of linked wheel transactions scheduled in the DACP.

4.4 Real-Time Market Integration

The incremental *energy* component of three-part *offers* accepted day-ahead, flow through to the *real-time market*. Pre-dispatch optimizes using only the incremental energy portion of the *offer* and disregards the other parts of the *offer* (speed no-load (SNL) and start up cost (SUC)). Single-part offers approved in day-ahead will continue to flow through to real time.

Any *bids/offers* not approved for use in the DACP by 14:00 are automatically rejected and will not be carried forward for use in real time. If you wish to revise *dispatch data* for inclusion in Pre-dispatch you can do so after 14:00 (current rules for dispatch data submission will apply).

Approved *bids/offers* for *dispatchable loads*, imports, and exports will flow through to real time. Approved forecasts/schedules for non-dispatchable resources will also flow through to real time.

DGD submitted after 10:00 will be used in the next day's DACP run.

4.4.1 Pseudo Unit Offer Submission—Real Time

PSU resources do not exist for the purpose of real-time *dispatch*. All PSU *offer* submissions after 14:00 until 6:00 the next day are rejected with the exception of valid standing *offers*. The schedules and commitments generated by the DACE for a PSU are translated to the associated physical units (PUs) for Pre-dispatch and real-time dispatch.

If you want to change your *dispatch data* for these resources, you must submit real-time PU *offers*. You can submit these offers while DACP is in progress since they are ignored during DACP. These offers are not held for operator approval during DACP. They are not candidates for automatic rejection at 14:00 and are subject to the normal dispatch data rules of real-time submission at the conclusion of DACP.

You must submit your initial real-time *offers* for PUs associated with a PSU by 10:00 day-ahead. For each PU associated with a PSU, the PU *offer* at 14:00 determines the availability declaration envelope (ADE) for that resource. You must ensure that the ADE established for your PUs is sufficient to cover the PU schedules you receive from the DACP.

After 14:00, you need IESO approval to submit any new or revised *dispatch data* that expands your ADE, except for *dispatch data* submitted in *response* to our request for additional *bids* and *offers*.

4.4.2 Minimum Loading Point Price Cap

We apply DACP commitments to PCG-eligible *generators* as minimum constraints to ensure a schedule to at least the DGD *MLP* in Pre-dispatch and real time. In order to prevent PCG-eligible generators scheduled in the day-ahead from collecting self-induced Congestion Management Settlement Credit (CMSC), the *market rules* have imposed a cap on the *MLP* price.

Incremental *offers* that are updated after the day-ahead should not exceed the *MLP* price of the day-ahead incremental *offer* used in determining the DACP Schedule of Record.

4.5 Submit Dispatch Data

4.5.1 Non-dispatchable Generators

If you are a non-dispatchable *generator* (self scheduling or intermittent), you may submit new or revised *dispatch data* (schedules or forecasts) within the restrictions specified for real-time operation in “Market Manual 4: Market Operations, Part 4.2: Submission of Dispatch Data in the Real-Time Energy and *Operating Reserve Markets*”.

4.5.2 Dispatchable Loads and Dispatchable Generators

If you are a *dispatchable load* or a dispatchable *generator*, there are no restrictions to changing your *dispatch data* within the hours, *energy*, and capacity of your ADE. (The ADE is the hourly *energy* and capacity offered into the DACP for dispatchable *generators*, or the hourly load *bid* as dispatchable for *dispatchable loads*.)

However, you need our approval to submit any new or revised *dispatch data* that expands⁴ your ADE, except for *dispatch data* submitted in *response* to our request for additional *bids* and *offers*. Since there is no ADE associated with the daily energy limits provided before and during the DACP, energy-limited resources may change these limits without restriction up to the mandatory window in real time.

To ensure that we review and approve your request to expand your ADE, you must notify us by phone of your submission as early as possible.

After you notify us of your submission, we will:

- Review your *dispatch data* submission
- Assess the merits of your submission based on the valid reasons for change listed in Appendix A of Market Manual 9: Part 9.2 – Submitting Operational and Market Data for the Day-Ahead Commitment Process
- Approve or reject your submission
- Inform you of our decision by phone
- Ask you to reinstate your old *dispatch data* if we rejected your submission

⁴ ADE expansion means an increase to the hours and/or quantities specified in your *bid* or *offer* that was used to establish your ADE in the DACP Schedule of Record.

There is no formal notification through the Market Participant Interface (MPI) of an approval or rejection of your request to expand your ADE outside of the mandatory window in real time.

If you submit your changes within the mandatory window in real time, you must follow the rules for submitting *dispatch data* in that window as specified in “Market Manual 4: Market Operations, Part 4.2: Submission of Dispatch Data in the Real-Time Energy and Operating Reserve Markets”. We will formally communicate an approval or rejection of your request to expand your ADE through the MPI.

There is no automated enforcement mechanism for the ADE after the DACP. It is your responsibility to notify us when your *dispatch data* revision expands your established ADE beyond the deadband defined in Section 5.1.1.

We use a manual ex-post process to find the instances of *dispatch data* revisions that expand your ADE without our approval.

4.5.3 Imports and exports

If you are an importer or exporter, you may submit new or revised *dispatch data* within the restrictions for real-time operation as described in “Market Manual 4: Market Operations, Part 4.2: Submission of Dispatch Data in the Real-Time Energy and *Operating Reserve Markets*”.

If you are an importer, you are not allowed to change the *NERC* tag used by the DACP such that the import becomes part of a linked wheel in real time.

4.5.4 Availability Declaration Envelope for Dispatchable Generators and Dispatchable Loads

The ADE is established by *dispatch data* that is accepted by 10:00, or approved before 14:00, as mentioned in Market Manual 9: Part 9.2—Submitting Operational and Market Data for the Day-Ahead Commitment Process.

You may submit *offers/bids* in real time within the hours, *energy*, and capacity of your *facility's* ADE. There are no restrictions on price changes and there are no restrictions on daily energy limit changes. However, *offers* exceeding the hours and/or quantities of the ADE require our approval.

Offers submitted by dispatchable *generators* during DACP provide their declaration of the hours, *energy*, and capacity for those hours which they intend to *offer* in real time. *Bids* submitted by *dispatchable loads* during DACP provide their declaration of the hours, *energy*, and capacity for those hours which they intend to *bid* during real time.

These declarations of availability in the day-ahead, together with the energy schedules submitted by non-dispatchable generators, provide us with a picture of the *adequacy* of available market resources. This picture allows us to commit generation and schedule imports in the day-ahead to meet forecast Ontario *demand*.

Because you are not financially bound by the *dispatch data* you submit in the DACP, and because this *dispatch data* is used as the basis for resource commitment and *reliability* guarantees, we place certain restrictions on the *offers* or *bids* that you can make in real time.

4.6.4.1 The Availability Declaration Envelope

The ADE applies to dispatchable generators and dispatchable *loads* (the notion of the ADE does not apply to non-dispatchable generators, *non-dispatchable loads*, imports, or exports).

The ADE is the hourly *energy* and capacity offered into the DACP for dispatchable *generators*, or the hourly load *bid* as dispatchable for *dispatchable loads*.

Offers for *operating reserve* into the DACP must be accompanied by a corresponding energy *offer* (or *bid* for *dispatchable load*). While there is no ADE for *operating reserve (OR)*, the ADE of the corresponding energy offer/bid will impact the amount of OR you can offer in real time.

The ADE is established for the next *dispatch day* by the most recent approved *dispatch data* that was considered in the DACP Schedule of Record.

If you are a dispatchable *generator*, you may submit *offers* in real time within the hours, *energy*, and capacity of your *facility's* ADE. There are no restrictions on price changes within the ADE and there are no restrictions on daily energy limit changes within the ADE. However, *offers* exceeding the hours and/or quantities of the ADE require our approval.

If you are a *dispatchable load*, you may submit *bids* in real time (and corresponding *offers* for *OR*) within the hours and *dispatchable load* quantities of your *facility's* ADE. There are no restrictions on price changes within the ADE. However, *bids* (and *offers* for *OR*) exceeding the hours and *dispatchable load* quantities of the ADE require our approval.

We will approve the submission of new or revised *dispatch data* that increases the ADE for dispatchable generation or *dispatchable load facilities* for the following reasons:

- If the *facility* is returning early from planned or *forced outages*, forced de-ratings, or cancellation of *planned outages*
- If we requested additional *bids* and *offers* (in which case, you do not need to call us)
- If such increases to your *facility's* ADE will resolve emerging *reliability* concerns

For the late start of a *planned outage*, we will accept the *dispatch data* submitted, but we will not approve the expansion of your ADE. The submission will be logged to compliance for follow up.

4.6.4.2 Enforcement of the Availability Declaration Envelope

There is no automated enforcement mechanism of the ADE for *dispatch data* submitted after the DACP. The following actions apply to changes in ADE:

- *Offers* or *bids* you submit, which pass normal validation checks, will be entered into our systems.
- If your *offer* or *bid* violates your *facility's* ADE, you must notify us of your submission so we can consider it for approval (except for our request for additional *bids* and *offers*).
- Upon notification, we will review your *bid* or *offer* and accept or reject it based on the reasons stated above.
- We will log our acceptance or rejection and will phone you to inform you of our decision.
- Rejection does not automatically substitute the previous *bid* or *offer*. You must correct any *dispatch data* that violates the ADE by submitting new dispatch data.
- We will manually process detected violations of the ADE (done without our approval) after the trade date of the DACP.

- We will apply a deadband above the ADE quantities for assessing compliance. (See the Availability Declaration Envelope Deadband section below.)
- If you exceed your *facility's* ADE without approval, you will be subject to compliance actions for breach of the *market rules*.

4.6.4.3 Availability Declaration Envelope Deadband

You may make small increases to your ADE without requesting our approval. These increases must be limited to 2% of the ADE established in the DACP Schedule of Record, or 10 MW, whichever is less.

4.5.5 Submit Outage Requests

Submitting *outage* requests after the DACP uses the same process as real time.

For early return from *outages*, (both planned and forced), you must submit revised *dispatch data* to reflect your status. Any changes or additions to *dispatch data* submissions shall be consistent with *outage* requests submitted before 10:00.

For early return from *planned outages*, we will approve the *dispatch data* submitted that is consistent with the operation of your *facility*, and log the submission for compliance.

For late start of *planned outages*, we will accept the *dispatch data* submitted, but we will not approve the expansion of your ADE. The submission will be identified to Compliance for follow up. See “Market Manual 7: System Operations, Part 7.3: Outage Management” for details.

4.5.6 Submit Outage Cancellation Requests

We will approve *outage* cancellation requests and the submission of revised *dispatch data* to reflect your status. However, we will flag the revised *dispatch data* for compliance review.

4.6 Synchronize Units Committed in the Day-Ahead

When we commit your *generation unit* for *reliability* or the DA-PCG, we constrain it on to its *MLP* and for its day-ahead scheduled hours. In real time, we will *dispatch* your unit to at least its *MLP* for all hours that it received a day-ahead schedule.

To meet this *dispatch*, you must plan the time you start and synchronize your unit. How you operate in real time may affect your eligibility for the DA-PCG. For additional information, refer to “Market Manual 9: Part 9.5—Settlement of the Day-Ahead Commitment Process”.

When your generation unit is synchronized, it will be dispatched to its *MLP* using the ramp rate in the *offers* submitted. If the *generation unit* reaches its *MLP* before the first hour in which a constraint is applied, then we will *dispatch* your *generation unit* to at least its *MLP* for the hour(s) required prior to the constraints.

You must call us if you realize that you cannot be at your *MLP* at the beginning of your committed hours, within the applicable compliance deadband for real time operation as specified in “Interpretation Bulletin IMO_MKRI_001—Compliance with Dispatch Instructions Issued to Dispatchable Generators”. This allows us to make any necessary adjustments in the market systems to reflect your unit’s actual capability.

You must also call us if you cannot comply with your *dispatch instructions* after the constraints applied in the DACP have ended and you have not yet fulfilled your *minimum generation block run-time (MGBRT)* due to a delay in either synchronization or reaching your *MLP*. You will not be

required to comply with these *dispatch instructions* if you are within the provisions of Section 7.5.3 of Chapter 7 of the “*Market Rules*”.

-End of Section-

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5. Procedures for Real-Time Integration of the DACP

This section provides you with detailed procedures relating to the interaction of the DACP and real-time operation. The procedures associated with the submission of *dispatch data* and daily generator data (DGD) both during and after the operation of the DACP are covered in Part 9.2 of the *Market Manuals*.

The following procedures are described in this section:

- Procedure 5.1 Withdraw Offers for a Committed Resource
- Procedure 5.2 Respond to IESO Request for De-commitment

The applicability of these procedures to specific resources is shown in the table below.

Table 5-1: Applicability of Procedures

Resource Type	5.1: Withdraw Offers for a Committed Resource	5.3: Respond to IESO Request for De-commitment
PCG-Eligible	X	X
Not Quick Start not PCG-Eligible		
Pseudo Unit		
Quick Start		
TSG; Intermittent; Self Scheduling		
<i>Dispatchable Load</i>		
Importer		
Exporter		

5.1 Withdraw Offers for a Committed Resource

This section describes the procedure for withdrawing your *offers* for a DA-PCG eligible resource that received a commitment from the DACP.

5.1.1 Withdraw Offers for a Committed Resource – Procedure

This procedure is initiated when a resource identified in Table 5-1: wants to withdraw their *offers* after receiving a commitment from the DACP. This activity can occur at any time after the DACP Schedule of Record is issued until two hours prior to the *dispatch hour*, regardless of whether the generation unit has synchronized to the *IESO* Controlled Grid or not.

5.1.2 Workflow for Withdraw Offers for a Committed Resource

The diagrams in this section represent the flow of work and information related to withdrawing *offers* for a committed resource.

See the table below for a description of the shapes used in the workflow diagram. .

Table 5-2: Workflow Diagram Legend

Legend	Description
Oval	An event that triggers a task or that completes a task. Trigger events and completion events are numbered sequentially within procedure (01 to 99)
Task Box	Shows reference number and task name or brief summary of a task. Reference number (e.g., 1A.02) indicates the procedure number within the current <i>market manual</i> (1), sub-procedure identifier (if applicable) (A), and task number (02)
Solid Horizontal Line	Shows information flow between the <i>IESO</i> and external parties
Solid Vertical Line	Shows linkage between tasks
Broken Line	Links trigger events and completion events to preceding or succeeding task

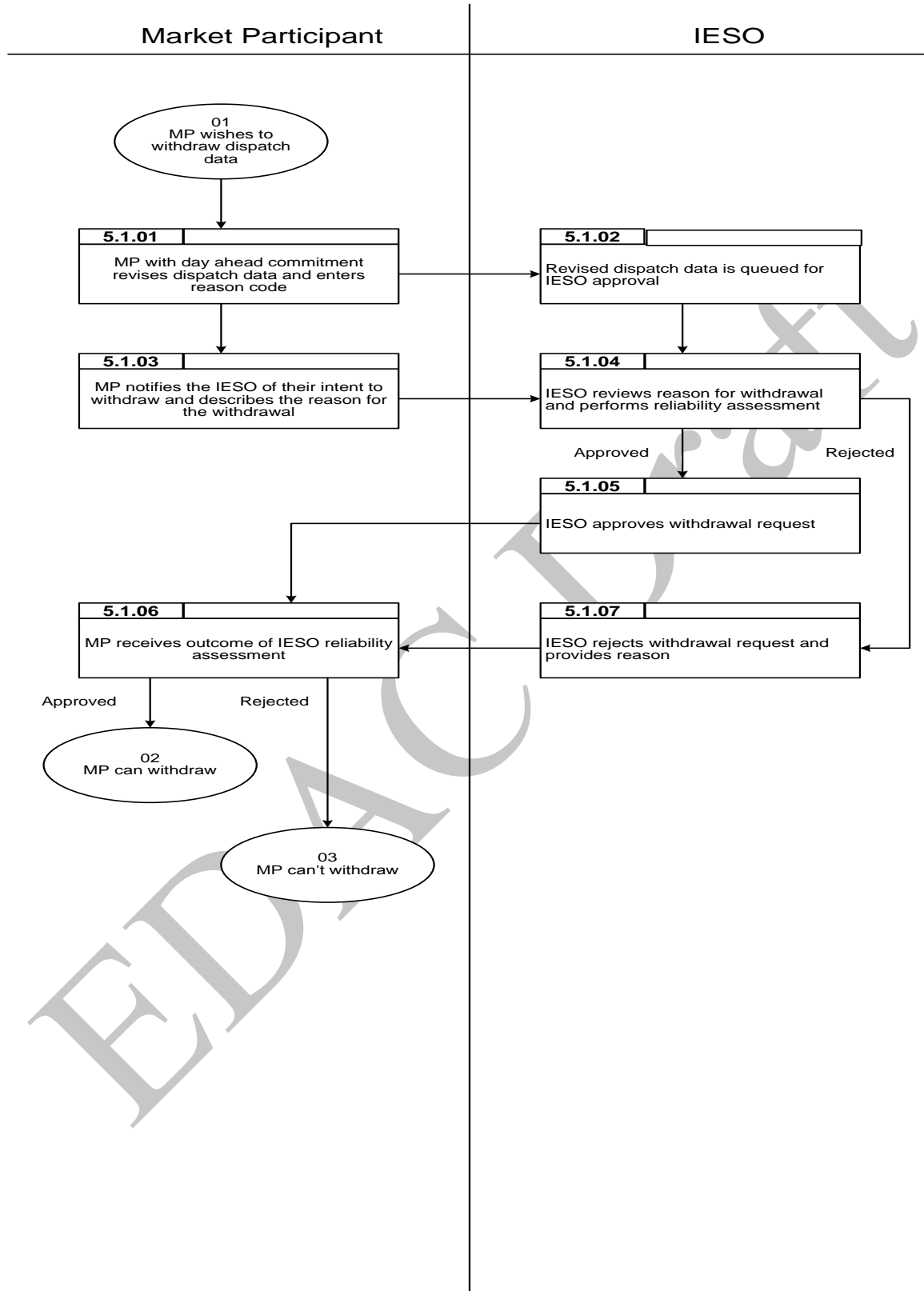


Figure 5-1: Withdraw Offers for a Committed Resource

5.1.3 Procedural Steps for Withdraw Offers for a Committed Resource

This section contains details on the task steps that make up a request to withdraw *offers* for a committed resource.

See the table below for a description of the fields used in the table of procedural steps.

Table 5-3: Procedural Steps Legend

Legend	Description
Ref #	The numerical reference to the task
Action	Detail about the specific task including: <ul style="list-style-type: none"> • A description of the events that can trigger commencement of the task • A list of the information flows that may or must result from the task
Tools	The format and method for each information flow are specified

Table 5-4: Procedural Steps for Withdraw Offers for a Committed Resource

Ref #	Action	Tools
01	<p>You wish to withdraw <i>offers</i> for a committed resource (PCG-eligible resource with a day-ahead schedule):</p> <ul style="list-style-type: none"> • After the DACP Schedule of Record has been issued • Before or after the <i>generation unit</i> has synchronized to the <i>IESO-controlled grid</i> • Regardless of whether the withdrawal is within your control • More than 2 hours before the <i>dispatch hour</i> 	<ul style="list-style-type: none"> • Market Operation System - Market Participant Graphical User Interface (MPI) or Application Programmers Interface (API) • The <i>market participant</i> Graphical User Interface Users Guide can be found on the Technical Interface page of the IESO website: (www.ieso.ca)
5.1.01	<p>You have a day-ahead commitment and revise <i>dispatch data</i> and enter a reason code:</p> <ul style="list-style-type: none"> • Reason code required (new reason code “withdrawal” for withdrawals that are within your control) • Must be outside the mandatory window (more than 2 hours in advance of the <i>dispatch hour</i>) • Submissions without a reason code will not be accepted by the IESO systems 	Market Operation System - Market Participant Graphical User Interface (MPI) or Application Programmers Interface (API)
5.1.02	Revised <i>dispatch data</i> is queued for <i>IESO</i> approval	Market Operation System -Market Participant Graphical User Interface (MPI) or Application Programmers Interface (API)
5.1.03	You notify the IESO Control Room Operator of your intent to withdraw and describe the reason for the withdrawal	Telephone
5.1.04	<p>We review the reason for withdrawal and perform a <i>reliability</i> assessment</p> <ul style="list-style-type: none"> • Reason code “withdrawal” must be used for withdrawals that are within your control 	<i>IESO</i> assessment tools
5.1.05	<p>We approve your withdrawal request and notify you:</p> <ul style="list-style-type: none"> • No <i>security</i> or <i>adequacy</i> issues identified in <i>IESO</i> assessment 	<ul style="list-style-type: none"> • Market Operation System – IESO OPGUI • Telephone

Ref #	Action	Tools
5.1.06	You receive the outcome of <i>IESO reliability</i> assessment: <ul style="list-style-type: none"> • Withdrawal request approved • Changes to <i>offers</i> approved 	<ul style="list-style-type: none"> • Telephone • Market Operation System -Market Participant Graphical User Interface (MPI) or Application Programmers Interface (API)
5.1.07	We reject your withdrawal request and notify you: <ul style="list-style-type: none"> • <i>Security</i> and/or <i>adequacy</i> issues identified in <i>IESO</i> assessment 	<ul style="list-style-type: none"> • Market Operation System – IESO OPGUI • Telephone
5.1.08	You receive the outcome of our <i>reliability</i> assessment: <ul style="list-style-type: none"> • Withdrawal request rejected • Changes to <i>offers</i> rejected 	<ul style="list-style-type: none"> • Telephone • Market Operation System -Market Participant Graphical User Interface (MPI) or Application Programmers Interface (API)

5.2 Respond to IESO Request for De-commitment

5.2.1 Respond to IESO Request for De-commitment—Procedure

This procedure is initiated when we call you to request you to de-commit a PCG-eligible resource that received a day-ahead schedule and commitment from the DACP.

We will de-commit your unit only for *reliability* reasons and only after we call to inform you of our intention to remove the constraints applied to your unit.

5.2.2 Work Flow for Respond to IESO Request for De-commitment

The diagrams in this section represent the flow of work and information related to the activities associated with a request from the *IESO* to de-commit your *generation unit*. A legend for the workflow diagram is shown in Table 5-2.

See Table 5-2: Workflow Diagram Legend for a description of the shapes used in the workflow diagram.

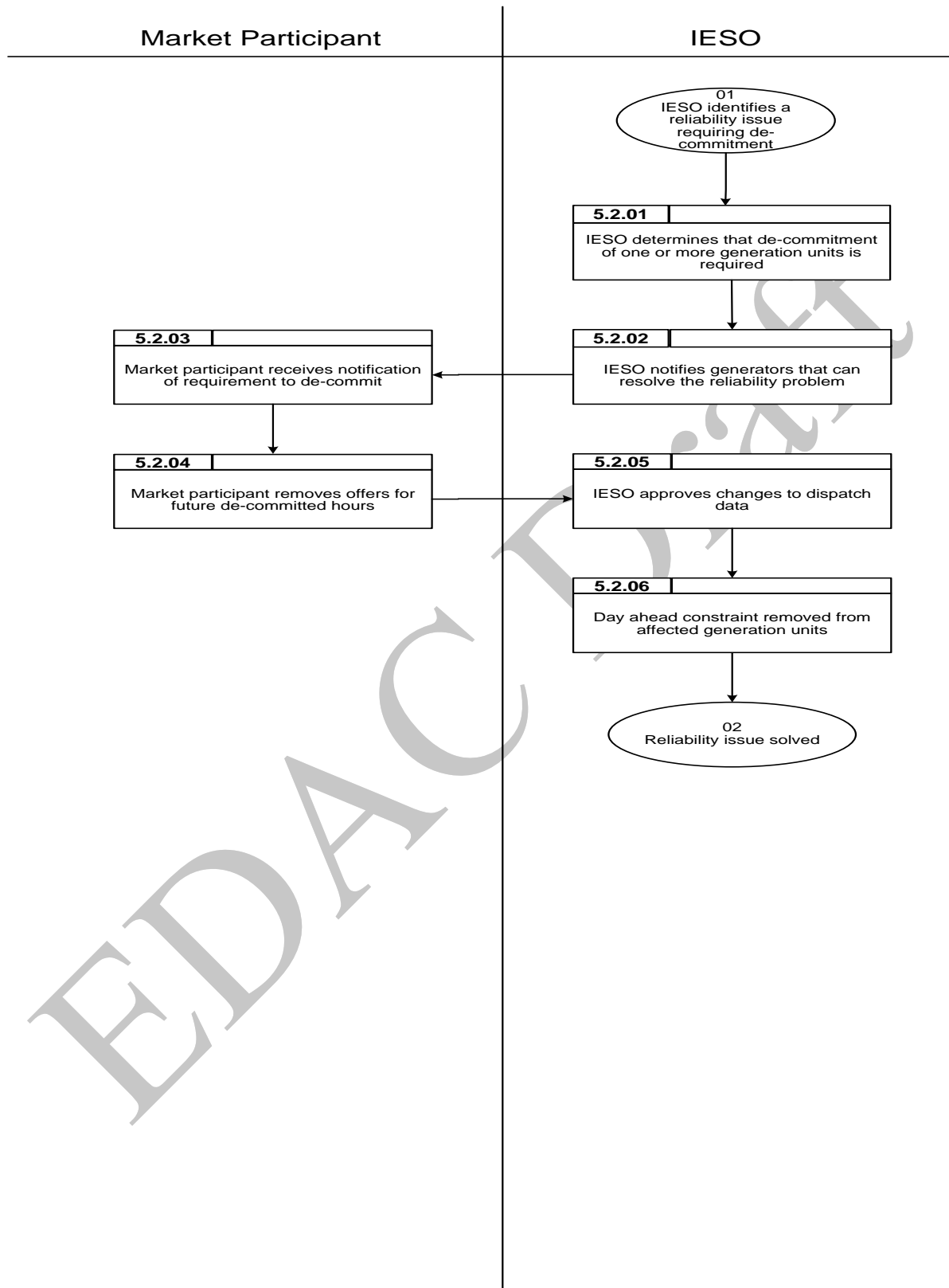


Figure 5-2: Workflow for Respond to IESO Request for De-commitment

5.2.3 Procedural Steps for Respond to IESO request for De-commitment

This section contains details on the steps needed when the *IESO* requires your *generation unit* to be de-committed for *reliability*.

See Table 5-3: Procedural Steps Legend for a description of the fields used in the table of procedural steps.

Table 5-5: Procedural Steps for Respond to IESO Request for De-commitment

Ref #	Action	Tools
01	We identify a <i>reliability</i> issue requiring de-commitment: <ul style="list-style-type: none"> PCG-eligible <i>generation unit</i> that received a commitment from the DACP 	<ul style="list-style-type: none"> Pre-dispatch results <i>IESO</i> assessment tools
5.2.01	We determine that the de-commitment of one or more <i>generation units</i> is required for <i>reliability</i> : <ul style="list-style-type: none"> Specific <i>generation unit</i>(s) identified that will address the <i>reliability</i> issue Before or after the <i>generation unit</i> has synchronized to the <i>IESO-controlled grid</i> 	<ul style="list-style-type: none"> Pre-dispatch results <i>IESO</i> assessment tools
5.2.02	We notify <i>generators</i> that can resolve the <i>reliability</i> problem	Telephone
5.2.03	You receive notification of the requirement to de-commit	Telephone
5.2.04	You remove <i>offers</i> for future hours where a day-ahead commitment existed: <ul style="list-style-type: none"> Before or after the <i>generation unit</i> has synchronized to the <i>IESO-controlled grid</i> Removal of <i>offers</i> will be queued for our approval either inside or outside the mandatory window 	Market Operation System - Market Participant Graphical User Interface (MPI) or Application Programmers Interface (API)
5.2.05	We approve changes to your <i>dispatch data</i> : <ul style="list-style-type: none"> Will not be treated as a withdrawal because the removal of <i>offers</i> is not within your control 	<ul style="list-style-type: none"> Market Operation System – <i>IESO</i> OPGUI Telephone
5.2.06	We remove your day-ahead constraint: <ul style="list-style-type: none"> PCG-eligible <i>generation unit</i> that received a day-ahead commitment 	<i>IESO</i> Contract Manager Application
02	The <i>reliability</i> issue identified by the <i>IESO</i> is solved	

-End of Document-