

Nova Scotia Power System Operator (NSPSO)

Market Procedure

MP-08

Information Required for
Forecasts and Assessments

Issue: 01

Effective Date: 2012 12 31

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1 Document Control

1.1 Change History

Issue	Date	Reason for Issue
01	2012 12 31	Original Procedure

1.2 Contact for Queries and Submissions

For queries concerning the application or interpretation of this Market Procedure and for submission of documents required under this procedure (unless noted otherwise) contact:

Name: Market Administrator
 Phone: 902 428 7719
 Address: 5 Long Lake Drive
 Halifax, Nova Scotia
 B3S 1N8
 E-mail: nspsoadmin@nspower.ca

All documents required to be submitted to the NSPSO under this Market Procedure must be submitted to the attention of this contact at the coordinates noted above in accordance with the requirements of section 2.7.

1.3 Authority for Market Procedures

This Market Procedure is made under the authority of section 3.3 of the Market Rules.

1.4 Relationship with Market Rules and Transmission Tariff

Nothing in this Market Procedure supersedes or over-rides any provision of the Market Rules or of the Transmission Tariff. Where there is a discrepancy between the requirements in this Market Procedure and the Market Rules, the Market Rules prevail. Similarly, where there is a discrepancy between the requirements in this Market Procedure and the Transmission Tariff, the Transmission Tariff prevails. Any user of this Market Procedure who identifies any discrepancy between this Market Procedure and either the Market Rules or the Transmission Tariff should notify the contact identified in section 1.2.

Any summary of a provision or requirement of the Market Rules or of the Transmission Tariff contained in this Market Procedure is provided for convenience of reference only. Users of this Market Procedure are reminded that the obligations that need to be met are as stated in the Market Rules and the Transmission Tariff.

1.5 Definitions and Terminology

Terms capitalized in this Market Procedure that are not otherwise defined in this document have the meanings given to them in Appendix 1A of chapter 1 of the Market Rules. The rules of interpretation contained in chapter 1 of the Market Rules apply to this Market Procedure, with such modifications as the context may require.

In this Market Procedure the term "Facility" includes a facility that has not yet been registered.

1.6 Updating this Market Procedure

Changes may from time to time be made to this Market Procedure in accordance with the Market Rules. All such changes will be Published by the NSPSO but may not yet be included in a consolidated version of this Market Procedure. It is the responsibility of each user of this Market Procedure to use the most up-to-date information and documents. Users wishing confirmation of any changes to this Market Procedure that have not yet been incorporated into this consolidation should contact the person identified in section 1.2.

1.7 Document approval

Paul Casey, Director Reliability & Control Centre Operations

Signature: _____



2 Introduction

2.1 Purpose of this Market Procedure

The purpose of this Market Procedure is to define the information to be submitted to the NSPSO for its use in its semi-annual 18-month forecasts and assessments, and the information to be submitted to the NSPSO for its use in its annual 10-year forecasts and assessments, and to define the timing requirements and the process, documents and forms to be used by Market Participants, Transmitters and Connection Applicants in submitting such information.

2.2 Purpose of Forecasts and Assessments and of Provision of Information

The semi-annual 18 month forecasts and assessments, and the annual 10 year forecasts and assessments are at the very core of the NSPSO's planning for Reliability of the Bulk Electricity Supply System. They form the basis of judgments to be made by the NSPSO, Market Participants, Transmitters, and others on investment, outage planning, contracting etc.

The preparation and publication of these forecasts and assessments also fulfills the NSPSO's obligations in this respect arising from its participation in NPCC and NERC.

The timely and accurate inputs by Market Participants, Transmitters and Connection Applicants are essential to the NSPSO's timely preparation of accurate forecasts and assessments, and therefore to the economical maintenance of the Reliability of the Bulk Electricity Supply System .

2.3 Market Rules - References

Section 3.3 of the Market Rules sets out the obligations of the NSPSO to produce forecasts and assessments, and of the Market Participants and Transmitters to support the NSPSO by the provision of data.

Section 3.5 of the Market Rules describes provisions relating to Outage Planning and Coordination. Certain information for the forecasts and assessments will be drawn from the Outage Planning and Approval system as described in Market procedure MP-09.

Section 3.4 of the Market rules describes the preparation of an annual System Plan to be published concurrently with the annual 10 year forecast and assessment, and the identification in such forecast and assessment of the potential need for investments to maintain the Reliability of the Bulk Electricity Supply System.

2.4 Scope and Application

This Market Procedure describes the information required to be provided by all Market Participants, Transmitters and Connection Applicants. The particular information required depends on the class or classes to which a Market Participant belongs or the nature of the facility that is the subject of the Connection Assessment.

2.5 Responsibilities of Parties under this Procedure

Market Participants, Transmitters and Connection Applicants are responsible for timely submission of the information required by the NSPSO for purposes of preparing forecasts and assessments, as set out in this Market Procedure.

In preparing information for such submission, Market Participants, Transmitters and Connection Applicants shall make reasonable estimates of the parameters required, all on the basis of current business plans and expectations, including forecasted outage dates, expansions, shutdowns, etc.

2.6 Other Market Procedures

To the extent that information has been submitted in accordance with Market Procedure MP-09, it may not be required to be resubmitted under this Market Procedure.

2.7 Form and Means of Communication

Most of the information requirements are to be submitted in electronic spreadsheet files as indicated in MPF-08-01 to -13 The NSPSO may, as set out below, request hard copy of such forms to be submitted under signed cover, and Market Participants, Transmitters and Connection Applicants shall comply if so requested.

All documents that are required by this Market Procedure to be signed are required to be delivered to the NSPSO by personal delivery, courier or mail. The NSPSO may accept advance copies by other means of communication, but shall only recognize the document as having been submitted on the date of receipt of the signed original in hard copy. All other documents and information may be communicated by personal delivery, courier, mail, fax, e-mail or voice communications as considered appropriate by the sending person. Where a document or information is provided other than by means of the transmission of an original in hard copy, the NSPSO retains the right to require written confirmation of the document or information by an authorized representative of the sending person or to require that an original be provided in hard copy. Similarly, the NSPSO may require such written confirmation of information already in its possession where the NSPSO intends to use such information in association with any process described in this Market Procedure.

2.8 Confidentiality

Section 2.9 of the Market Rules contains the rules applicable to the treatment of Confidential Information by the NSPSO, by Market Participants, by Transmitters, and by Connection Applicants. These rules apply to information disclosed under this Market Procedure.

All information submitted to the NSPSO solely in accordance with the requirements of this Market Procedure will be treated as confidential. This does not confer confidentiality on any information actually submitted, or required to be submitted, to satisfy other obligations under the Market Rules or any requirement of other Market Procedures, nor to confer confidentiality on information otherwise in the public domain or required to be Published by the NSPSO.

3 Process Description

3.1 Requirements for, and Timing of, Submissions for Semi-annual 18-Month, and Annual 10-Year, Forecasts and Assessments.

- 3.1.1 In order that the NSPSO may complete and Publish its annual 10-year forecast and assessment by the end of June each year, Market Participants, Transmitters and Connection Applicants are required to submit the required information by the end of April. Exact dates are Published by the NSPSO in the Market Calendar.
- 3.1.2 In order that the NSPSO may complete and Publish its semi-annual 18-month forecast and assessment by the end of April and October, Market Participants, Transmitters and Connection Applicants are required to submit the required information by the 15th day of March and September. Exact dates are Published by the NSPSO in the Market Calendar.
- 3.1.3 All quantities provided to the NSPSO under this Market Procedure shall be as adjusted to the Delivery Point at the boundary of the NSPSO-controlled Grid.
- Generation quantities shall be as measured at transmission voltage, i.e. net of output transformer losses, and net of station service. Injections to the NSPSO-controlled Grid shall be reported as positive, withdrawals as negative.
 - Load quantities shall be as measured at transmission voltage, i.e. before transformer losses or transformer station service.
 - Market Participants for Embedded Facilities shall ensure that all data is appropriately adjusted to the relevant transmission Delivery Point and voltage.

3.2 Information Drawn from Other Systems

- 3.2.1 For the months in any Capability Period for which the Outage Planning Date has passed before the date by which Market Participants, Transmitters and Connection Applicants must submit information in accordance with section 3.1.1 and 3.1.2 above, the NSPSO shall rely on the outage planning data submitted in accordance with market Procedure MP-09. To the extent that Forced Outages notified to the NSPSO in accordance with Market Procedure MP-12 are expected to extend into the period under assessment, the NSPSO shall take account of such data.
- 3.2.2 Registration data submitted in accordance with Market Procedure MP-04 is used, subject to any projected changes to such data as submitted by Market Participants or Transmitters.
- 3.2.3 The NSPSO shall take account of information provided for Connection Assessments in accordance with Market Procedure MP-04, but may aggregate data where release of individual Connection Assessment data would be in breach of confidentiality obligations.
- 3.2.4 The NSPSO shall take account of the latest System Plan for development of the Bulk Electricity Supply System prepared in accordance with section 3.4 of the Market Rules.

- 3.2.5 The NSPSO will communicate directly with the operators of interconnected systems to secure from them any relevant information with respect to their systems.

3.3 Transmitter Information for Semi-annual 18-Month Forecasts & Assessments

- 3.3.1 Transmitters shall provide information on

- any new transmission elements expected to come into service before the end of the forecast and assessment period
- any transmission elements expected to cease service before the end of the forecast and assessment period.
- any expected changes in limits of transmission elements before the end of the forecast and assessment period
- any transmission elements that are identified as being at high risk of failure before the end of the forecast and assessment period

and the expected date and impact of each of the above.

- 3.3.2 Information is to be provided using form MPF-08-01

3.4 Transmitter Information for Annual 10-Year Forecasts and Assessments

- 3.4.1 It is envisaged that the preparation of the annual 10 year forecast and assessment will proceed in parallel with the preparation of the System Plan to be prepared in accordance with section 3.4 of the Market Rules.

- 3.4.2 Transmitters shall therefore provide initial information by the date described in section 3.1.1. above using form MPF-08-02 to identify changes from the previous System Plan that are intended or which are under consideration.

- 3.4.3 Transmitters shall communicate with the NSPSO as required to reconcile the System Plan with the 10 year forecast and assessment as they are both prepared.

3.5 Market Participants for Generation Facilities and Embedded Generation Facilities, and for Joint Facilities and Embedded Joint Facilities

- 3.5.1 Information to be submitted by the dates described in sections 3.1.1 and 3.1.2 above comprises:

- any expected changes to registration data including with respect to reactive power or voltage control capability
- planned expansions, retirements, de-ratings and any major outages beyond those included under section 3.2.1 above

- expected impacts of any equipment degradation over the period of the forecast, including with respect to forced outage rates
 - expected impacts of normalized ambient conditions on equipment capability over the period
 - forecast or projected energy output
 - short term energy constraints under normalized ambient conditions
 - regulatory, environmental or commercial changes that are expected to impact capacity or energy output, or which impose material risk of forced changes to capacity or energy output.
- 3.5.2 It is to be expected that the net output of some Facilities in some months will be negative; this should be reported as such. This will particularly be the case for Joint Facilities and Embedded Joint Facilities, for which the Market Participant shall also report the peak demand forecast or projection.
- 3.5.3 Information is to be submitted using forms MPF-08-03 for the semi-annual 18 month forecast and assessment, and MPF-08-04 for the annual 10 year forecast and assessment.

3.6 Market Participants for Load facilities that are directly connected to the NSPSO-controlled Grid

- 3.6.1 Information to be submitted by the dates described in sections 3.1.1 and 3.1.2 above comprises:
- any expected changes to registration data
 - planned expansions and retirements, beyond those included in Connection Assessments as indicated in section 3.9 below
 - forecast or projected peak firm demand and energy use
 - forecast or projected Interruptible demand
 - forecast or projected Ancillary Service provision
- 3.6.2 Information is to be submitted using forms MPF-08-05 for the semi-annual 18 month forecast and assessment, and MPF-08-06 for the annual 10 year forecast and assessment.

3.7 Market Participants for Distribution Systems

- 3.7.1 Information to be submitted by the dates described in sections 3.1.1 and 3.1.2 above comprises:
- any expected changes to registration data
 - planned expansions and retirements, beyond those included in Connection Assessments as indicated in section 3.9 below

- forecast or projected peak firm demand and energy use, including that served by Embedded Generation Facilities and Embedded Joint Facilities that are registered Facilities
- forecast or projected Interruptible demand, including that served by Embedded Generation Facilities and Embedded Joint Facilities that are registered Facilities
- forecast or projected Ancillary Service provision other than served by Embedded Generation Facilities and Embedded Joint Facilities that are registered Facilities

3.7.2 Information is to be submitted using forms MPF-08-07 for the semi-annual 18 month forecast and assessment, and MPF-08-08 for the annual 10 year forecast and assessment.

3.8 Other Market Participants Supplying or Purchasing Electricity or Ancillary Services, Including Importers and Exporters, Including those who Wheel through Nova Scotia.

3.8.1 Information to be submitted by the dates described in sections 3.1.1 and 3.1.2 above comprises:

- existing contracts for firm (system backed or capacity backed) energy or Ancillary Service imports backed by firm transmission reservations
- other forecast or projected imports
- existing contracts for firm energy or Ancillary Service exports backed by firm transmission reservations
- other forecast or projected exports
- existing contracts for firm wheeling transactions backed by firm transmission reservations
- other forecast or projected wheeling transactions

3.8.2 Information is to be submitted using forms MPF-08-09 for the semi-annual 18 month forecast and assessment, and MPF-08-10 for the annual 10 year forecast and assessment.

3.9 Connection Applicants

3.9.1 Information to be submitted by the dates described in sections 3.1.1 and 3.1.2 above comprises the update of the information provided in connection with the application for Connection Assessment with respect to:

- probability of project proceeding
- expected or actual date of commitment to applicant's project

- expected or actual date of commitment to connection upgrade (if required)
 - expected or actual date of commercial operation of project
 - updated forecast or projected capacity and energy output, or demand and energy use for generation projects and load projects respectively.
- 3.9.2 Information is to be submitted using forms MPF-08-11 for the semi-annual 18 month forecast and assessment, and MPF-08-12 for the annual 10 year forecast and assessment, supplemented by the forecast sheets from MPF-03, MPF-04, MPF-05, or MPF-06 as appropriate.
- 3.9.3 For the purposes of this Market Procedure, the obligation of a Connection Applicant under this section only ceases on completion of registration other than on a provisional basis, and on completion of any required commissioning.

3.10 Market Participants with No Information to Report

- 3.10.1 Any Market Participant that has no obligation to report under any of the above sections is required to submit form MPF-08-13 by the by the dates described in sections 3.1.1 and 3.1.2 above.

3.11 Publication

- 3.11.1 The NSPSO shall not Publish input data received from individual Market Participants, Transmitters, or Connection Applicants except as may be provided under other provisions of the Market Rules or Market Procedures.
- 3.11.2 The NSPSO shall Publish aggregated data in its reports. Such Published data may be aggregated on a zonal basis as well as on a system basis. Such Published data may include different scenarios with respect to potential projects and with respect to forecast commercial operation dates of committed projects. While Published details of individual projects will be limited to those that are non-confidential, it is acknowledged that the Published reports may permit certain deductions in respect of data that is otherwise confidential.

4 Flow Charts

None

5 Forms

- MPF-08-01 Information to be provided for Semi-annual 18-Month Forecast and Assessment by Transmitters
- MPF-08-02 Information to be provided for Annual 10-Year Forecast and Assessment by Transmitters
- MPF-08-03 Information to be provided for Semi-annual 18-Month Forecast and Assessment by Market Participants for Generation Facilities and

Embedded Generation Facilities and for Joint Facilities and Embedded Joint Facilities

- MPF-08-04 Information to be provided for Annual 10-Year Forecast and Assessment by Market Participants for Generation Facilities and Embedded Generation Facilities and for Joint Facilities and Embedded Joint Facilities
- MPF-08-05 Information to be provided for Semi-annual 18-Month Forecast and Assessment by Market Participants for Load facilities that are Directly Connected to the NSPSO-controlled Grid
- MPF-08-06 Information to be provided for Annual 10-Year Forecast and Assessment by Market Participants for Load facilities that are Directly Connected to the NSPSO-controlled Grid
- MPF-08-07 Information to be provided for Semi-annual 18-Month Forecast and Assessment by Market Participants for Distribution Systems
- MPF-08-08 Information to be provided for Annual 10-Year Forecast and Assessment by Market Participants for Distribution Systems
- MPF-08-09 Information to be provided for Semi-annual 18-Month Forecast and Assessment by Other Market Participants Supplying or Purchasing Electricity or Ancillary Services. Including Importers and Exporters, Including those who Wheel Through Nova Scotia
- MPF-08-10 Information to be provided for Annual 10 Year Forecast and Assessment by Other Market Participants Supplying or Purchasing Electricity or Ancillary Services. Including Importers and Exporters, Including those who Wheel Through Nova Scotia
- MPF-08-11 Information to be provided for Semi-Annual 18-Month Forecast & Assessment by Connection Applicants
- MPF-08-12 Information to be provided for Annual 10-Year Forecast & Assessment by Connection Applicants
- MPF-08-13 Information to be provided for all Forecasts & Assessments by Market Participants with No Information to Report

6 Appendices

None