

# Transmission Planning Process Guide

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## Contents

| Section 1 Purpose                                      |  | 1                    |
|--|--|----------------------|
| Section 2 Process for Addressing Reliability Needs     |  | 2                    |
| 2.1 Process for Enrollment                             |  | 2                    |
| 2.2 Process for Becoming a Qualified Transmission Pro  | oject Sponsor                              | 3                    |
| 2.2.1 QTPS Process Overview                            |  | 3                    |
| 2.2.2 Requesting QTPS Status                           |  | 4                    |
| 2.2.3 Submittal and Review of Remedial Information     |  | 5                    |
| 2.2.4 Determination of QTPS Status                     |  | 5                    |
| 2.2.5 Maintain QTPS Status                             |  | 6                    |
| 2.2.6 QTPS Listing                                     |  | 7                    |
| 2.3 Overview of Process                                |  | 7                    |
| 2.4 Process Steps Overview                             |  | 8                    |
| 2.5 Stakeholder Involvement                            |  | 8                    |
| 2.6 Needs Assessment                                   |  | 8                    |
| 2.6.1 Process Overview                                 |  | 8                    |
| 2.6.2 Initiation of a Needs Assessment                 |  | 11                   |
| 2.6.3 Study Scope Development and Review (PAC)         |  | 11                   |
| 2.6.4 Treatment of Market Solutions in Needs Assessr   | nent                                       | 12                   |
| 2.6.5 Conduct Needs Assessment                         |  | 12                   |
| 2.6.6 Collect and Review Results                       |  | 13                   |
| 2.6.7 Publish Needs Assessment Report                  |  | 13                   |
| 2.7 Determination of Solutions Study or Competitive S  | olutions Process                           | 14                   |
| 2.7.1 Process Overview                                 |  | 14                   |
| 2.8 Development of a Regulated Transmission Solutio    | ns Study                                   | 17                   |
| 2.8.1 Solutions Study Process Overview Where Compe     | etitive Solution process is not Applicable | 17                   |
| 2.8.2 Study Initiation Notification and Scope          |  | 19                   |
| 2.8.3 Development of Regulated Transmission Solution   | n Alternatives                             | 19                   |
| 2.8.4 Discussion Regarding Transmission Solution Alter | rnatives Being Considered (PAC)            | 20                   |
| 2.8.5 Publish Solutions Study Report                   |  | 20                   |
| 2.8.6 Determination of the Regionally-Preferred Trans  | mission Solution                           | 21                   |
| 2.8.7 Changes in Study Assumptions                     |  | 21                   |
| 2.8.8 Remaining Needs                                  |  | 21                   |
| 2.9 Competitive Solution Process                       |  | 22                   |
| 2.9.1 Process Overview                                 |  | 22                   |
|  | i  |                      |
| Planning Process Guide 8/1                             | 2/2016                                     | ISO New England Inc. |

| 2.9.2 Public Notification               |  | 25                  |
|---|--|---------------------|
| 2.9.3 Unsponsored Projects              |  | 25                  |
| 2.9.4 Phase One Proposal                |  | 25                  |
| 2.9.5 Requirements for a Phase One      | Proposal   | 26                  |
| 2.9.6 Preliminary ISO Review            |  | 26                  |
| 2.9.7 List of Qualifying Phase One Pro  | oposals  | 27                  |
| 2.9.8 Phase Two Solutions: Requirem     | nents, Identification of Preferred Solution and Inclusion in the F | ₹SP28               |
| 2.9.9 Milestone Schedule and Manag      | ging Milestones  | 29                  |
| Section 3 Planning for Public Policy .  |  |                     |
| 3.1 Public Policy Transmission Upgra    | des Process  |                     |
| 3.1.1 Process Overview                  |  |                     |
| 3.1.2 Public Notification for Public Po | olicy Requirements   |                     |
| 3.1.3 Submission by NESCOE              |  |                     |
| 3.1.4 Responses to Public Policy Requ   | uests  |                     |
| 3.1.5 Conduct Public Policy Transmis    | sion Study   |                     |
| 3.1.6 Public Notification Request for   | Proposal   |                     |
| 3.1.7 Unsponsored Projects              |  |                     |
| 3.1.8 Public Policy Stage One Proposa   | als  |                     |
| 3.1.9 Requirements for a Stage One F    | Proposal   |                     |
| 3.1.10 Preliminary ISO Review           |  |                     |
| 3.1.11 List of Qualifying Stage One Pr  | oposals  |                     |
| 3.1.12 Stage Two Solutions: Requirer    | nents, Identification of Preferred Solution and Inclusion in the   | RSP40               |
| 3.1.13 Milestone Schedule and Mana      | aging Milestones   |                     |
| Section 4 Description of Interregiona   | al Coordination  | 44                  |
| 4.1 Interregional Coordination for ISC  | D, NYISO and PJM   |                     |
| Section 5 Regional System Plan          |  | 44                  |
| 5.1 Description of the Regional Syste   | m Plan   |                     |
| 5.2 RSP Project Listing                 |  | 45                  |
| 5.3 Inclusion and Update of Projects    | in the Regional System Project List                                | 45                  |
| Section 6 Planning Advisory Commit      | tee Process  | 46                  |
| 6.1 Role of the PAC                     |  |                     |
| 6.2 Membership                          |  | 46                  |
| 6.3 Meeting Notification, Frequency     | and Materials  | 46                  |
| 6.4 CEII Information and Materials      |  | 47                  |
| 6.5 TOPAC/Local System Planning         |  | 47                  |
| Appendix A                              |  |                     |
| Planning Process Guide                  | ii<br>8/12/2016 ISO  | New England Inc.    |
| 1 1411111111111111111111111111111111111 | 0/12/2010 130  | incov bingianu inc. |

| Appendix B | 50 |
|------------|----|
| Appendix C | 56 |

# Section 1 Purpose

ISO New England (the "ISO"), Northeast Power Coordinating Council ("NPCC") and North American Electric Reliability Corporation ("NERC") criteria and reliability standards provide the minimum transmission system performance standards, which serve as the foundation for the ISO's regional transmission planning. All proposed system modifications, including transmission and generation additions or significant load reductions or additions, must be analyzed and designed to ensure system wide coordination and continued system reliability in compliance with these standards.

The purpose of this planning document is to provide additional detail on the existing regional system planning process as described in Attachment K of Section II of the ISO New England Transmission, Markets and Services Tariff (the "Tariff").

This document is not intended to address every activity that may be associated with the regional system transmission planning process. There are a number of activities that are not the subject of this document but may be briefly touched upon in this document for context and to help provide a thorough explanation of the regional system planning process. These include activities such as the "Local System Planning Process" as described in Section 2.5 of Attachment K which is the responsibility of each Participating Transmission Owner ("PTO"), the Proposed Plan Application ("PPA") process, and the Transmission Cost Allocation ("TCA") procedures.

The provisions in this document are intended to be consistent with ISO New England's Tariff. If, however, the provisions in this planning document conflict with the Tariff in any way, the Tariff takes precedence as the ISO is bound to operate in accordance with the ISO Tariff.

Planning Process Guide

8/12/2016

ISO New England Inc.

# Section 2 Process for Addressing Reliability Needs

#### **2.1 Process for Enrollment**

Entities that intend to participate as a transmission provider in the New England transmission planning region in accordance with Section 1.1 of Attachment K to Section II of the Tariff, must enroll with the ISO.

Note that this enrollment is separate and distinct from the terms, conditions and requirements that apply to Transmission Providers, as defined in Section I–General Terms and Conditions of the Tariff. Additionally, such enrollment is not required for an entity to participate as part of the Planning Advisory Committee, which is open to any entity as described in Section 2.3 of Attachment K to Section II of the ISO Tariff. Enrollment as a transmission provider in the New England transmission planning region in accordance with Section 1.1 of Attachment K to Section II of the Tariff does not transfer an entity's transmission facilities to the ISO New England RTO, or otherwise result in conferring ISO operational dispatch and planning rights and obligations over such facilities. The terms for conferring such authority over an entity's transmission facilities are contained in a transmission operating agreement.<sup>1</sup>

An entity will be enrolled as a transmission provider in the New England transmission planning region in accordance with Section 1.1 of Attachment K to Section II of the ISO New England Open Access Transmission Tariff if:

- the entity is a signatory to a transmission operating agreement. Such entities are automatically enrolled and no further action is necessary. Entities that are signatories to a transmission operating agreement as of May 18, 2015 will be enrolled as of that date. Signatories to a transmission operating agreement following May 18, 2015 will be enrolled as of the date that they become party to the agreement; or
- the entity is a party to a Market Participant Service Agreement (MPSA) coupled with a written notification to the ISO that the entity desires to be a transmission provider in the New England region. The completion and submittal of the enrollment form found in Appendix A shall meet the "written notification" requirement. The entity will be enrolled as of the date that the form was received by ISO upon receipt of this completed form by ISO and ISO verification that the entity is a party to an MPSA.

Entities that are party to an MPSA that desire to enroll shall complete all fields in the form found in Appendix A and email the completed form as an attachment to: <u>NEPlanningApp@iso-ne.com</u>

An email confirming successful enrollment will be sent from ISO to the email address from which the request was submitted and the email address of the Market Participant representative provided within the completed form. The name of the entity will be added to Appendix 2 of Attachment K to Section II of the ISO Tariff during its subsequent update.

Incomplete forms or not being a party to an MPSA will result in the rejection of the submitted enrollment form. An email notification of the rejection of the enrollment form will be sent from ISO to the email address from

<sup>&</sup>lt;sup>1</sup> A transmission operating agreement is an agreement between a transmission owner and the ISO that, among other things, provides the ISO with operating authority over the transmission owner's commercial transmission facility(ies). A list of current transmission operating agreements can be found on the <u>ISO TOA page</u>.

which the request was submitted and the email address for the Market Participant representative provided within the submitted form.

In the event that an MPSA is terminated, the entity is no longer eligible to be enrolled as a transmission provider, and will be removed from Appendix 2 of Attachment K to Section II of the ISO Tariff during its subsequent update.

Entities that are party to a transmission operating agreement may not disenroll. Entities that are not party to a transmission operating agreement that elect to no longer be enrolled as a transmission provider in the New England transmission planning region in accordance with Section 1.1of Attachment K must send an email to <u>NEPlanningApp@iso-ne.com</u> and request the entity's removal from Appendix 2 of Attachment K to Section II of the ISO Tariff during its subsequent update.

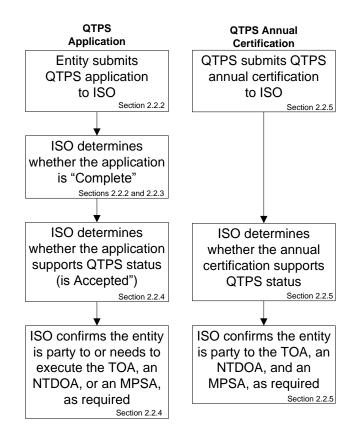
#### 2.2 Process for Becoming a Qualified Transmission Project Sponsor

#### 2.2.1 QTPS Process Overview

Any entity that intends to submit a proposal (Proposal) in response to an ISO identified need for a Reliability Transmission Upgrade (RTU), Market Efficiency Transmission Upgrade (METU), Public Policy Transmission Upgrade (PPTU) or a Backstop Transmission Solution must first be recognized by the ISO as a Qualified Transmission Project Sponsor (QTPS), in accordance with Section 4B of Attachment K to Section II of the Tariff.

- A Participating Transmission Owner (PTO) is recognized as a QTPS once its QTPS application has been deemed accepted by the ISO.
- A non-PTO is recognized as a QTPS once its QTPS application has been deemed accepted by the ISO, and it is party to a Non-Incumbent Transmission Developer Operating Agreement (NTDOA) and an MPSA.

Qualifying as a QTPS can be done at any time but is required to be completed before a Proposal can be considered by the ISO. Additionally, an entity is required to maintain its QTPS status by completing an annual certification process. An overview of the process is shown in the flowchart below.



#### 2.2.2 Requesting QTPS Status

An entity seeking to receive QTPS status (Applicant) shall complete and submit a QTPS Application Form ("Application") to the ISO (via <u>QTPS@iso-ne.com</u>). The Application and submittal instructions can be found in Appendix B - Qualified Transmission Project Sponsor Application Form to this QTPS process.

The ISO will review the Application and determine whether it contains sufficient information such that ISO can then proceed with the determination of QTPS status (i.e., the Application is determined to be "Complete"). Within thirty (30) calendar days from its receipt, the ISO will notify the entity as to whether the Application is considered "Complete" or "Incomplete".

If the ISO determines that the Application is Complete, the ISO will initiate its determination of QTPS Status in accordance with Section 4B of Attachment K to Section II of the ISO Tariff, as described in Section 2.2.4 of this QTPS process.

If the ISO determines that the Application is Incomplete, the ISO will include in its notification the identified deficiencies that it expects the Applicant to be addressed within the remedial information that is to be subsequently submitted in accordance with Section 4B of Attachment K to Section II of the ISO Tariff, as described in Section 2.2.3 to this QTPS process.

#### 2.2.3 Submittal and Review of Remedial Information

An Applicant that is notified by the ISO that its Application is incomplete has the opportunity to address the identified deficiencies by submitting remedial information (via <u>QTPS@iso-ne.com</u>) to the ISO within thirty (30) calendar days from the date of the ISO notification indicating the Application is Incomplete. The Applicant may consult with the ISO during this period to help ensure that the remedial information provided will remedy the identified deficiencies.

Remedial information received within the thirty (30) calendar day window will be reviewed by the ISO to determine whether the identified deficiencies have been addressed. If the Applicant fails to cure the deficiency within thirty (30) calendar days, the Application will be deemed to be "Rejected". The ISO will issue written notification to the Applicant indicating either:

- The Application is now deemed Complete and the ISO will proceed with the determination of QTPS status; or
- The Application is Rejected, with reasons noted.

## 2.2.4 Determination of QTPS Status

Within ninety (90) calendar days from the date the submitted application is deemed Complete, the ISO will use its best efforts to:

- Proceed with its evaluation of the Complete Application to determine whether the submitted information indicates that the entity meets or does not meet the QTPS qualification criteria in Section 4B of Attachment K;
- Make a determination of whether the Complete Application demonstrates that the Applicant meets the QTPS qualification criteria (i.e., is "Accepted") or does not demonstrate that the Applicant meets the QTPS qualification criteria (i.e., is "Rejected");
- Confirm whether an Applicant with an Accepted Application is party to or needs to execute the Transmission Operating Agreement (TOA), an NTDOA or an MPSA, as applicable; and
- Inform the Applicant of the determination, via written communication to the primary contact listed in the Application.

#### 2.2.4.1 Accepted Application

A PTO with an Accepted Application will be notified by the ISO that they are a QTPS.

A non-PTO with an Accepted Application:

- That is party to an NTDOA and an MPSA will be notified by the ISO that they are a QTPS.
- That is not party to an NTDOA and an MPSA will be notified by the ISO that they will be deemed a QTPS only after the Applicant and the ISO have executed an NTDOA and the Applicant is a party to an MPSA.

The ISO notification will, as necessary, provide the Applicant direction on the steps, as required to:

|                        | 5         |                      |
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| Planning Process Guide | 8/12/2016 | ISO New England Inc. |
|                        |           |                      |

- Be party to an NTDOA<sup>2</sup> and/or
- Initiate/complete the Membership process<sup>3</sup> such that it results in the Applicant becoming party to an MPSA<sup>4</sup>.

Following confirmation that the PTO is party to the TOA or that the non-PTO is party to an NTDOA and an MPSA, the ISO will notify the entity via written communication to the primary contact listed in the Application that it has been deemed a QTPS.

#### 2.2.4.2 Rejected Application

An Applicant with a Complete Application that is determined to be Rejected will be notified via written communication to the primary contact listed in the Application by the ISO of this determination, with reasons noted, and that they are not deemed a QTPS.

An entity may, at any time after a Rejected determination is made, complete and submit a new QTPS Application Form.

## 2.2.5 Maintain QTPS Status

In order to maintain its QTPS status, the QTPS must submit a QTPS Annual Certification Form ("Certification Form") that indicates whether the information in its Accepted Application has adversely changed in a material fashion in the intervening year, and maintain its status under the TOA, NTDOA, and MPSA, as appropriate.

The ISO will review the submitted Certification Form and issue a written notification to each QTPS indicating their QTPS status. An entity whose QTPS status is terminated by the ISO under this Section can only reinstate the status by requesting and receiving QTPS status in accordance with Section 4B of Attachment K to Section II of the ISO Tariff, as described in Section 2.2.2 of this document.

#### 2.2.5.1 Submittal of QTPS Annual Certification Form and Certification Window

A QTPS must complete and submit a Certification Form to the ISO (via <u>QTPS@iso-ne.com</u>) from the beginning of the day on January 1<sup>st</sup> through the end of the day on January 31<sup>st</sup> ("the Certification Window") of every year following the year of obtaining its QTPS status.

The QTPS will indicate:

• Whether the information included in the Accepted Application has adversely changed in a material fashion ("an adverse material change" <sup>5</sup>) in the intervening year and, if so, provide a description of the changes; and

<sup>&</sup>lt;sup>2</sup> Nothing prevents a non-PTO from becoming party to an NTDOA prior to the ISO's determination that the Application is Accepted. An Applicant that is applying for QTPS status following its failure to maintain QTPS status in accordance with Section 2.2.5 and who is already party to an NTDOA will be determined to have met the NTDOA requirement.

<sup>&</sup>lt;sup>3</sup> See: <u>http://www.iso-ne.com/support/reg\_info/membership/index.html</u>)

<sup>&</sup>lt;sup>4</sup> Nothing prevents a non-PTO from initiating the Membership process and becoming party to an MPSA prior to the ISO's determination that the Complete Application is Accepted. A non-PTO that is applying for QTPS status following its failure to maintain QTPS status in accordance with Section 2.2.5 and who is already party to an MPSA will be determined to have met the MPSA requirement.

• Which agreements (i.e., TOA, NTDOA, MPSA) to which they are a party.

The Certification Form and submittal instructions can be found in Appendix C - Qualified Transmission Project Sponsor Annual Certification Form to this QTPS process.

#### 2.2.5.2 Review of Certification Form

The ISO will review Certification Forms received within the Certification Window and confirm or terminate the QTPS status based on the information received and issue a written notification to each QTPS indicating their QTPS status, subject to also meeting the TOA, NTDOA and MPSA requirements shown below.

- A PTO must continue to be party to the TOA in order to maintain its QTPS status; and
- A non-PTO must continue to be party to an NTDOA and an MPSA in order to maintain its QTPS status.

The ISO will monitor for changes to these agreements and will terminate the QTPS status of any QTPS that ceases to be party to the TOA, NTDOA or MPSA, as applicable.

#### 2.2.5.3 Failure to Submit Certification Form

The ISO will issue written notification to any QTPS that was required but failed (either due to omission or a timing failure) to submit a Certification Form within the Certification Window that its QTPS status is terminated

#### 2.2.6 QTPS Listing

A list of QTPSs can be found in Appendix 3 to Attachment K of the OATT and in the current inventory of QTPSs<sup>6</sup>.

#### **2.3 Overview of Process**

Through an open stakeholder process, the ISO develops long range plans for the region's networked transmission facilities to address future system needs over the ten year planning horizon. Subject to Information Policy including Critical Energy Infrastructure Information ("CEII") requirements approved by FERC, all planning study efforts are discussed with the Planning Advisory Committee ("PAC"), and opportunities are provided for comments ranging from the draft scope of work through the posting of final reports. Study base cases and contingencies, which are used to simulate the system performance, are made available on the ISO web site to stakeholders subject to CEII requirements.

The transmission planning study process begins by developing a study scope and identifying all key inputs for conducting a Needs Assessment to determine the adequacy of the power system, as a whole or in part, to maintain the reliability of the facilities while promoting the operation of efficient wholesale electric markets in New England. After the results of a Needs Assessment are made available for stakeholder input, the potential transmission system solutions are evaluated thoroughly to identify the solutions for the region that offer the best

<sup>6</sup> http://www.iso-ne.com/static-assets/documents/2016/03/current\_qtps\_inventory.docx

Planning Process Guide

ISO New England Inc.

<sup>&</sup>lt;sup>5</sup> An adverse material change is a change to any information included in the QTPS's Accepted Application that adversely impacts in a material fashion the QTPS's capability to construct a RTU, METU or PPTU in a timely and competent manner, and operate and maintain such facilities.

combination of electrical performance, cost, future system expandability, and feasibility to meet the needs identified in a Needs Assessment. These study efforts may be in the form of a Solutions Study or a competitive solicitation depending on if the ISO forecasts that a solution is needed to solve reliability criteria violations in three years or less from the completion of a Needs Assessment.

## 2.4 Process Steps Overview

A Needs Assessment must be developed to assess the reliability performance of the Pool Transmission Facility ("PTF") system. This assessment may determine that the planned system will not meet reliability criteria during the study period. Where that occurs, possible transmission system upgrades that will address the identified needs may be proposed. Once a preferred solution has identified the solution that offers the best combination of electrical performance, cost, future system expandability, and feasibility to meet a need identified in a Needs Assessment in the required time frame. Additional activities under the proposed-plan process are necessary to ensure that proposed solutions are acceptable. This procedure describes the process for performance of a Needs Assessment in Section 2.6, performance of a Solutions Study in Section 2.8, and the steps necessary to complete the review and approval process for proposed projects or plans. Activities such as treatment of Market Solutions and incorporation of changes in Needs Assessment or Solutions Study assumptions are also discussed.

## 2.5 Stakeholder Involvement

Stakeholders are expected to actively participate in the Planning Advisory Committee ("PAC") process by attending meetings, commenting on posted study scopes and reports and otherwise providing useful comments on the process. ISO will consider all comments received from stakeholders during the PAC. Membership requirements for the PAC are described in Section 4.2 of this document. Consistent with the intention of Attachment K, and for the efficiency of the planning process, members of the Reliability Committee ("RC") are expected to participate in the PAC process to provide comments and input on study scopes, Needs Assessments and the selection of a preferred solution at that time, rather than waiting for the PPA or TCA review.

Stakeholders may provide comments at the Planning Advisory Committee meetings or they may also submit comments in writing at <u>PACMatters@iso-ne.com</u>. Comments submitted to PACMatters will be posted<sup>7</sup> on ISO-NE's website, along with ISO-NE's response to such correspondence.

#### **2.6 Needs Assessment**

#### 2.6.1 Process Overview

The ISO coordinates and administers the process for performing Needs Assessments for the PTF System. In addition as described in Section 4.1 of Attachment K, the ISO, in coordination with the PTOs and the PAC, shall conduct Needs Assessments of the adequacy of the PTF system, as a whole or in part, to maintain the reliability of such facilities while promoting the operation of efficient wholesale electric markets in New England. Conversely, PTOs initiate, coordinate and direct the performance of all Needs Assessments for the Non-PTF in the New England transmission system. The remained of Section 2.6 will address the Needs Assessment process for the PTF in the New England transmission system as administered by ISO.

<sup>&</sup>lt;sup>7</sup> <u>http://www.iso-ne.com/committees/comm\_wkgrps/prtcpnts\_comm/pac/reports/index.html</u>

The process for completing a Needs Assessment includes a review of the study scope, a review of initial results, presentation of final results, and documentation of the study using the ISO standard report format.

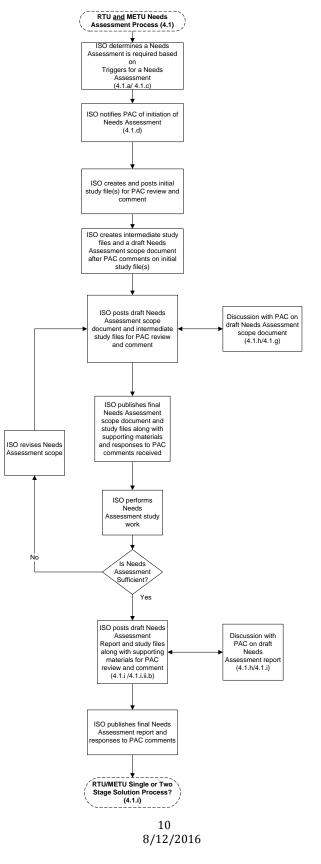
The following sections provide an overview of the process for conducting a Needs Assessment. Studies may address one or more of the types of assessments listed. In general the process described is applicable to all of the study types listed. Where it is necessary, procedures that are specific to particular types of analyses will be noted in the descriptions.

A Needs Assessment may include, but is not limited to the following:

- Conduct analysis to assess compliance with reliability standards, criteria, or guides (including those established by the ISO, NERC, NPCC and the Transmission Owner) consistent with the long term needs of the system
- Assess the adequacy of the transmission system capability, such as transfer capability, to support local, regional and interregional reliability
- Assess the efficient operation of the wholesale electric market. (See Attachment N regarding the identification of market efficiency upgrades)
- Assess sufficiency of the system to integrate new resources and loads on an aggregate or regional basis as needed for the reliable and efficient operation of the system
- Analyze various aspects of system performance. (Including but not limited to, transient network analysis, small signal analysis, electromagnetic transients program ("EMTP") analysis, or delta P analysis)
- Examine short circuit performance of the system. (e.g. circuit breakers, bus systems, ground grids, and circuit switchers)
- Assess the ability to efficiently operate and maintain the transmission system
- Address requests for an economic study consistent with section 4.1.b of Attachment K
- Address system performance in consideration of a De-List bids consistent with section 4.1.c of Attachment K

At any time during a Needs Assessment, assumptions can change requiring a modification to the scope. The modified scope will be brought back to the PAC for discussion and comments.

The Needs Assessment process is depicted by the following flowchart:



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Planning Process Guide

#### 2.6.2 Initiation of a Needs Assessment

For a Needs Assessment on the PTF system the ISO will be the initiator per the triggers listed in 4.1(a) and 4.1(c) of Attachment K. The ISO notifies the PAC in the form of a posted notice of the initiation of a Needs Assessment. The notice shall include a description of the relevant trigger(s) and may include a general description of the objectives, identify the type of study(s) to be performed and include general information about what the study(s) will encompass and a high level overview of the study area.

## 2.6.3 Study Scope Development and Review (PAC)

To allow for the development of a study scope the ISO will create and post, to its website, initial study files for each load level being assessed for the PAC to review and comment on (review period will vary on complexity of study files). After the ISO receives and reviews the PAC feedback on the initial study files the ISO will create and publish intermediate study files and a draft Needs Assessment scope document and bring the draft scope document to the PAC for discussion and review. The study scope will include a study schedule/timeline and should as a minimum include the following:

- Study objective
- Study Area
- Year(s) to be studied
- Description of the type of analysis and testing that will be included in the study. While these typically include steady-state, stability and short circuit studies, EMTP analysis and other types of analysis are sometimes required
- Study Assumptions (including but not limited to) transfers, load level, contingencies, and market solutions
- Any sensitivity considered such as potential retirements, demand-response performance characteristics, load forecast changes, topology changes included or excluded, etc.
- Reliability standards and criteria
- Description of methodology and performance criteria

As deemed necessary by the ISO, the ISO may also provide the scope to the Market Advisor to the ISO Board of Directors and the ISO Board of Directors. Upon receiving comments from the PAC, the ISO will determine the final study scope and respond to the input received from the PAC. The final Needs Assessment scope document and all study files and supporting documentation will be posted in the related Key Study Area subsection to the System Planning area on the ISO website.<sup>8</sup>

<sup>&</sup>lt;sup>8</sup> <u>http://www.iso-ne.com/committees/comm\_wkgrps/prtcpnts\_comm/pac/reports/2012/index.html</u>

#### 2.6.4 Treatment of Market Solutions in Needs Assessment

The Needs Assessment shall reflect proposed market responses. Market responses may include, but are not limited to, resources (such as demand-side projects or distributed generation projects), and Elective Transmission Upgrades.

The Needs Assessment shall incorporate or update information regarding proposed resources that:

- have cleared in a Forward Capacity Auction pursuant to Market Rule 1 of the ISO Tariff,
- have been selected in, and are contractually bound by, a state-sponsored Request For Proposals, or
- have a financially binding obligation pursuant to a contract

The Needs Assessment shall incorporate or update information regarding a proposed Elective Transmission Upgrade if:

- studies corresponding to the Elective Transmission Upgrade are completed (including receipt of approval under Section I.3.9 of the Tariff),
- a commercial operation date has been ascertained, and
- for which the certification has been accepted in accordance with Section III.12 of the Tariff.

In the case where the Elective Transmission Upgrades are proposed in conjunction with the interconnection of a resource, these Elective Transmission Upgrades shall be considered at the same time as the proposed resource is considered in the Needs Assessment provided that:

- the studies corresponding to the Elective Transmission Upgrade are completed (including receipt of approval under Section I.3.9 of the Tariff),
- a commercial operation date has been ascertained,
- and for which the certification has been accepted in accordance with Section III.12 of the Tariff.

#### 2.6.5 Conduct Needs Assessment

The Needs Assessment study is conducted as described within the study scope and the ISO will coordinate with the PAC to support the ISO's performance of a Needs Assessment. If required, the ISO may ask PTO's or members of the PAC with special expertise to provide technical support or to perform studies required to assess one or more potential needs that will be considered in a Needs Assessment. To facilitate this support, the ISO will post on its website all study files and supporting documentation used to perform the Needs Assessment. The ISO may establish requirements that any PTO or member of the PAC must satisfy to access certain information used to perform Needs Assessments due to ISO Information Policy and CEII constraints. The ISO will update, as needed, the models, files, cases, contingencies, assumptions and other information that will be used to perform the Needs Assessment study analysis based on changes in assumptions, if changes are made the ISO will post updated relevant information on its webpage and notify the PAC.

Planning Process Guide

## 12 8/12/2016

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#### 2.6.6 Collect and Review Results

The results of the Needs Assessment are compiled, analyzed and documented by the ISO. The information is compiled in a manner that allows for a detailed review of results on the basis of established criteria through concise presentation of the data. Each instance of system performance issues identified as part of the study should be documented and summarized.

The results of the analysis are reviewed, in detail, by the PAC to confirm the validity of the information and to ensure that all contributing factors have been taken into account and that the objectives of the Needs Assessment have been met. The ISO posts the draft Needs Assessment Report and study files along with supporting materials to the ISO website and convenes meetings open to any member of PAC to facilitate input to the Needs Assessment study work and draft report prior to the completion of the Needs Assessment report (subject to ISO Information Policy and CEII constraints).

## 2.6.7 Publish Needs Assessment Report

Upon completion of the PAC review, a final Needs Assessment Report<sup>9</sup> along with all study files and supporting documentation is published using the ISO Standard Needs Assessment Report format describing the study that was performed and the results of the analysis. The report should conform to the standard report structure to allow for a consistent review by all stakeholders and to allow a consistent method of identifying reliability needs for the PTF system. This standardization also supports compliance audits performed by NPCC and NERC. The ISO will publish the final Needs Assessment Report on its website<sup>10</sup> in accordance with CEII publishing protocol. Generally the presentations to PAC as described above are deemed sufficient to identify the opportunity for market responses. If formally requested to do so, the ISO will also present the report in appropriate market forums, other than PAC, in order to facilitate market responses.

The objective of the Needs Assessment Report is to document the results of studies that evaluate system performance against criteria and standards and the report is not intended to document likely or proposed solutions to any of the problems identified. Mitigation of identified performance issues to criteria is determined through performance of a Solutions Study or through an open competitive process, as described in sections 4.2 and 4.3 of Attachment K, respectively.

<sup>9 &</sup>lt;u>http://www.iso-ne.com/rules\_proceds/isone\_plan/othr\_docs/sample\_needs\_assessment\_rev1.doc</u>

<sup>&</sup>lt;sup>10</sup> Planning Advisory Committee Reports - <u>http://www.iso-ne.com/committees/comm\_wkgrps/prtcpnts\_comm/pac/reports/index.html</u>

## 2.7 Determination of Solutions Study or Competitive Solutions Process

#### 2.7.1 Process Overview

At the conclusion of a Needs Assessment, where needs have been identified, a decision must be made with regard to developing regulated transmission upgrades (solutions) to resolve the needs. The development of the solution(s) shall be accomplished by either the Solutions Study process or the Competitive Solution process.

#### 2.7.1.1 Reliability Transmission Upgrades

The initial determining factor of the decision for Reliability Transmission Upgrades is based on the time sensitivity of each need in the Needs Assessment.

If the year of need of any identified need is three years or less from the completion of the Needs Assessment (time sensitive need), then the Solutions Study process is to be utilized to develop and select the solution. Where the Solutions Study process is utilized for system needs that occur three years or less, the ISO will communicate the following to PAC:

- an explanation of the reliability criteria violations and system conditions that generated the needs,
- time sensitivity of each need,
- an explanation of other transmission or non-transmission options considered to address the identified reliability needs, and
- the circumstances that generated the reliability need, and an explanation of why the reliability need was not identified earlier

The ISO shall present the material above at a PAC meeting and will post the related presentation to the ISO website. The stakeholders will be given thirty days to submit comments on the posted material, and all comments received will be posted to the ISO website. Where appropriate, ISO responses to comments received will also be posted.

The ISO shall maintain and post on its website a list of prior year projects where the PTO was designated the entity responsible for construction and ownership of the reliability project once the Solutions Study process is completed<sup>11</sup>. The list must include the time sensitivity of each need and the actual date the PTO(s) placed the project into service.

If a solution is required to solve a need *greater* than three years from the time the Needs Assessment is completed (non-time sensitive need)<sup>12</sup>, then the Competitive Solution process is utilized to develop and select the solution. Note that where a Competitive Solution process is utilized, but the only Phase One Proposal submitted is the Backstop Transmission Solution, the ISO will utilize the Solutions Study process to complete the development of the solution.

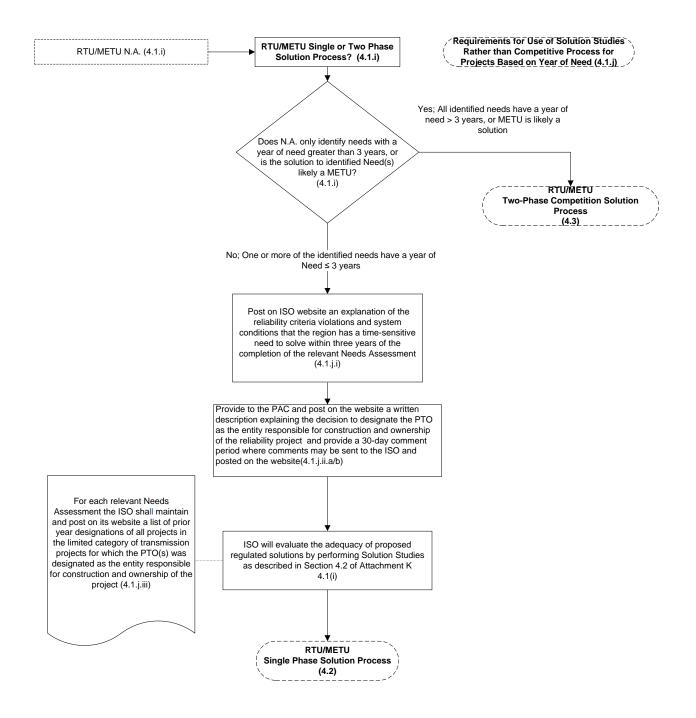
<sup>&</sup>lt;sup>11</sup> A Solutions Study is considered complete on the day the final Solutions Study report is posted to the PAC website.

<sup>&</sup>lt;sup>12</sup> A Needs Assessment is considered complete on the day the final Needs Assessment report is posted to the PAC website.

In the situation where the Needs Assessment identifies both time sensitive and non-time sensitive need(s) the Solutions Study process will be implemented. Solutions will be developed for the time sensitive need(s), which may, as an indirect consequence, result in non-time sensitive need(s) being solved. Upon selection of the preferred alternative to address the time sensitive need(s) a new Needs Assessment will be performed to determine remaining needs and their accompanying year of need.

#### 2.7.1.2 Market Efficiency Transmission Upgrades

If a Market Efficiency Transmission Upgrade is likely to be the solution for a need, then the Competitive Solution process shall be followed regardless of the year of need. The Determination of Solutions Study or Competitive Solutions Process is depicted by the following flowchart:



Planning Process Guide

#### 2.8 Development of a Regulated Transmission Solutions Study

# 2.8.1 Solutions Study Process Overview Where Competitive Solution process is not Applicable

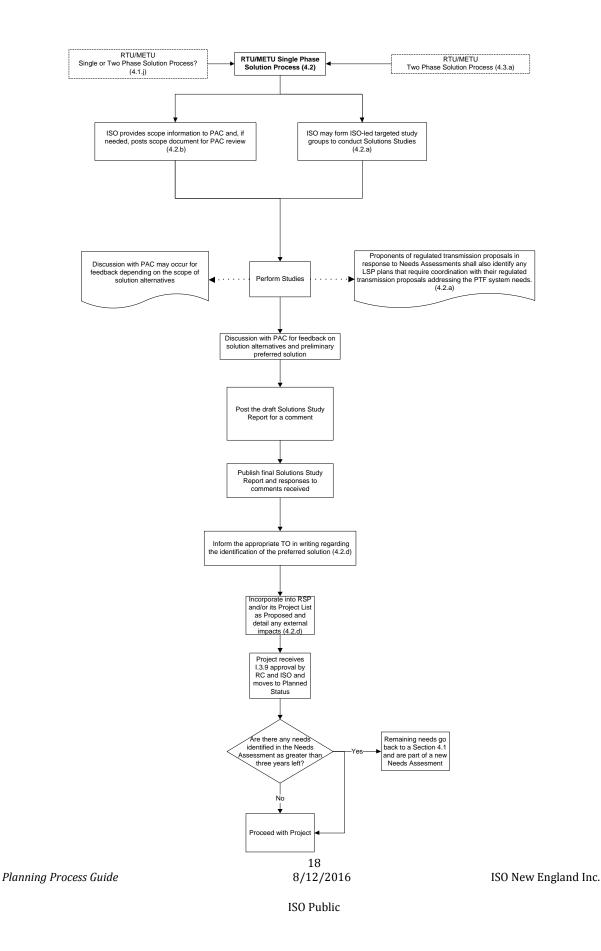
When triggered as described in Section 2.7.1 above, the ISO will lead a solutions development process that will conduct studies to identify the most cost-effective and reliable transmission solution that offers the best combination of electrical performance, cost, future system expandability, and the feasibility to meet the time sensitive needs identified in the Needs Assessment in the required time frame. The process for performing a Solutions Study includes:

- Provision of study scope information to PAC,
- Presentation of preliminary preferred solution to PAC,
- Identification of final preferred solution to PAC, and
- Drafting of a solutions study report using the ISO standard report format

During this process, the ISO may form ISO-led study groups to conduct Solutions Studies. The ISO-led study group is responsible for conducting the solution development and assessment. The results of the ISO-led solutions development process will be discussed with PAC and be reflected in the RSP and /or its Project List.

Market solutions are not assessed in a Solutions Study and instead become an integral assumption in the Needs Assessment. See Section 2.4.8 for an explanation of how and when Market Solutions are considered.

The Solutions Study process is depicted by the following flowchart:



#### 2.8.2 Study Initiation Notification and Scope

After a Needs Assessment is completed and it is determined that a Solutions Study will be required, the ISO will provide notice of the initiation of the Solutions Study to PAC in the form of an e-mail notification or presentation.

The elements of a Solution Study scope should be based on the conditions and assumptions studied in the Needs Assessment. A Solutions Study scope document will not be provided to PAC in cases where the scope is the same as the study conditions and assumptions of the Needs Assessment scope which has already been vetted through the PAC process. In such cases, ISO will notify PAC through email that the Solutions Study scope is consistent with the study conditions and assumptions of the Needs Assessment, and that a scope document is not required. If a Solutions Study scope document is required, ISO will post the scope to the ISO website and provide PAC with a timeline for submitting comments.

If the Backstop Transmission Solution is the only acceptable Phase One Proposal in the Competitive Solution Process it will proceed as a Solutions Study starting with this section.

#### 2.8.3 Development of Regulated Transmission Solution Alternatives

The ISO may form ISO-led targeted study groups to conduct Solutions Studies. Such study groups will include representatives of the proponents of regulated transmission solutions and other interested or affected stakeholders. The ISO will determine the final study group.

The process for development of regulated solutions to address identified time sensitive needs should follow a set of basic development and evaluation procedures. This process is generally as follows:

- Evaluation of possible transmission system improvements that have the potential of solving the needs
- Selection of viable alternatives through more detailed assessments
- Testing of viable alternatives to ensure they are complete and they fully address the identified needs,
- Testing system performance for issues such as short circuit margins, stability performance, thermal loading, voltage control, EMTP analyses, and extreme contingency performance of the alternative solutions ,as needed
- Examining operational and maintenance related issues on a high level basis to ensure that solution alternatives do not introduce operational or maintenance related concerns
- Evaluating the overall cost (possibly including a net present value analysis) and performance of the proposed set of viable alternatives to determine which among them is the most appropriate and cost-effective solution

Each of these steps is performed in a consistent and structured manner. This may result in an iterative process during which an alternative may be rejected or modified to account for any failure to address the full set of problems identified in the Needs Assessment study. Each of the final viable alternatives should fully address the set of time sensitive needs identified in the Needs Assessment. In order to comprehensively compare each of the alternatives, the set of complete and viable alternatives is evaluated by the project proponent at a more detailed level for cost, consistent with Appendix A and Attachment D<sup>13</sup> to ISO Planning Procedure No. 4<sup>14</sup>,

<sup>&</sup>lt;sup>13</sup> <u>http://www.iso-ne.com/rules\_proceds/isone\_plan/pp4\_0\_attachment\_d.pdf</u>

<sup>&</sup>lt;sup>14</sup> <u>http://www.iso-ne.com/rules\_proceds/isone\_plan/pp4\_0\_r5.pdf</u>

which outlines accuracy ranges for cost estimates and also provides guidance on contingency and escalation values. In some cases, it may be necessary to also conduct a performance comparison of the alternatives. Factors to be considered in the evaluation of alternatives shall include, but are not limited to, the following:

- Costs of construction including all costs associated with rights of way, easements and associated real estate.
- Assessment of the schedule or in-service date of the project from an engineering and construction standpoint rather than from the standpoint of potential delays in local or state siting.
- Relative reliability and operational impacts of the project as compared to alternatives considered.
- Costs associated with operation and maintenance of the proposed design and alternatives, including consideration of whether the proposed design is consistent with Good Utility Practice.
- Costs of related and long-term congestion impacts, if any, of each proposed PTF and Non-PTF design alternative, including costs related to outages associated with construction.
- The proposed design's fit into reasonable future expansion plans including the "Regional System Plan" ("RSP").
- Consistency with current engineering, design and construction practices in the area.
- Long term system improvements.
- Other factors including loss savings, operability, asset condition, etc.

During the solutions alternatives development the proponents of a regulated transmission proposal in response to a Needs Assessment shall also identify any Local System Projects ("LSP") plans that will require coordination with their regulated transmission proposal addressing the PTF system Need. The LSP projects will not be eligible for PTF cost recovery.

#### 2.8.4 Discussion Regarding Transmission Solution Alternatives Being Considered (PAC)

Transmission solution alternatives will be discussed with PAC. Depending on their scope, the proposed alternatives may be discussed with PAC at various stages of the Solutions Study process. PAC will have the opportunity to comment on the alternatives, the set of factors considered in comparing potential alternatives, and/or suggest different alternatives to be studied. Where appropriate, ISO responses to comments received will also be posted.

Based on the analyses performed in the Solutions Study, the ISO will determine which regulated transmission solution offers the best combination of electrical performance, costs, future system expandability, and feasibility to meet the time-sensitive need identified in a Needs Assessment in the required time frame. This solution is considered the "preliminary preferred solution." PAC and other interested stakeholders are given the opportunity to comment on the preliminary preferred transmission solution before the draft Solutions Study Report is issued.

#### 2.8.5 Publish Solutions Study Report

Upon completion of the Solutions Study analysis, the ISO will publish a draft study report, which identifies the preferred solution, using the ISO Standard Solutions Study Report<sup>15</sup> format found on the ISO website. The report should conform to the standard report structure to allow for a consistent review by all stakeholders. This

<sup>15</sup> http://www.iso-ne.com/rules\_proceds/isone\_plan/othr\_docs/sample\_standard\_solution\_study\_report\_72910.doc

allows for a consistent method for identifying reliability solutions for the PTF system and also supports compliance audits performed by NPCC and NERC. The Solutions Study report will be posted on the ISO website in the related Key Study Area sub-section to the System Planning area of the ISO website<sup>16</sup> for a stakeholder comment period. Comments should be submitted to <u>PACmatters@iso-ne.com</u>.

Where appropriate, ISO responses to comments received will also be posted. The ISO will publish the final Solutions Study Report on its website in accordance with CEII publishing protocol when all comments have been addressed.

#### 2.8.6 Determination of the Regionally-Preferred Transmission Solution

After the preferred solution has been identified, the ISO will inform the appropriate Transmission Owners in writing regarding the identification of the preferred solution. Once identified, the preferred solution will be reflected in the RSP and/or its RSP Project List as it is updated from time to time, pursuant to Attachment K and in accordance with Section 3.2 of this document.

Where external impacts of regional projects are identified through coordination by the ISO with neighboring entities, those impacts will be identified in the RSP

The proponent of the preferred solution will need to comply with Proposed Plan Application process set out in Section I.3.9 of the ISO Tariff to ensure that there is no material adverse impact to the system as a result of the transmission plan. This review process is accomplished through the use of engineering task forces. These task forces include the Transmission Task Force ("TTF") and the Stability Task Force ("STF"). Members of the TTF and STF are required to have CEII clearance to participate on a Task Force. Once the transmission proponent completes the Task Force technical review process, the proponent submits their Proposed Plan Application ("PPA") to the ISO which places it on the Reliability Committee agenda for an advisory vote. The Tariff Section I.3.9 process (also called the PPA process) applies only for the evaluation of significant adverse impacts on reliability and operating characteristics.

#### 2.8.7 Changes in Study Assumptions

If a change in study assumptions is evaluated by ISO and is found to not impact the time sensitivity of the need(s) or the need(s) itself, the study will continue. If the change in study assumptions impacts the time sensitivity of a need or the need, the study may be stopped and the need will be re-evaluated. If the new study assumptions must be adopted, it is preferred to restart the assessment with updated assumptions. The ISO, will make the final decision on whether a study will continue or will be re-started.

#### 2.8.8 Remaining Needs

If after the completion of a Solutions Study, needs identified in the Needs Assessment with a year of need greater than three years from the completion of the Needs Assessment are still unsolved, then a new Needs Assessment will begin to determine the expected year of need for the remaining needs. That process is described in section 2.6 of this document.

Planning Process Guide

ISO New England Inc.

<sup>&</sup>lt;sup>16</sup> <u>http://www.iso-ne.com/system-planning/key-study-areas</u>

#### **2.9 Competitive Solution Process**

#### 2.9.1 Process Overview

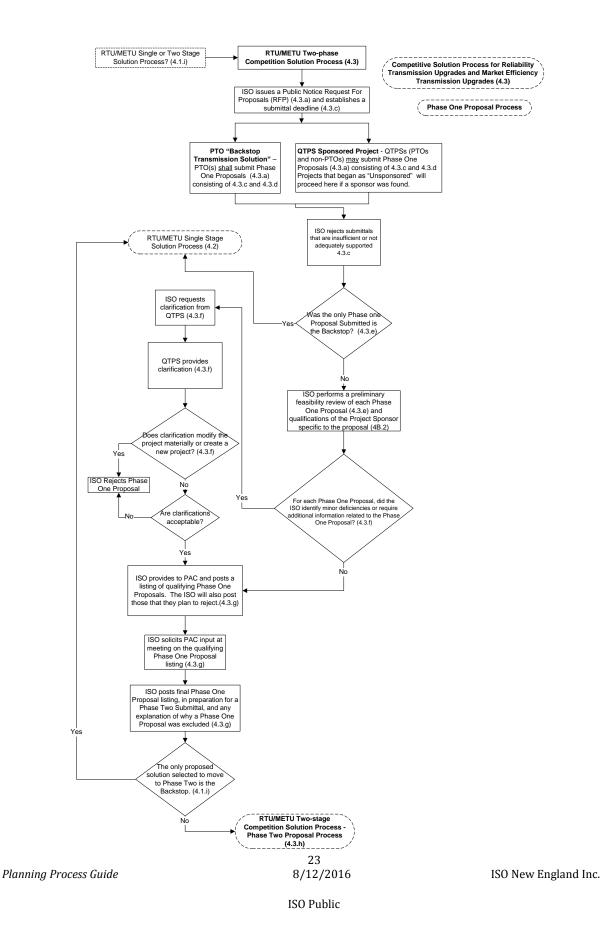
Where triggered as described in Section 2.7.1, above, the ISO will implement a Competitive Solutions process. Those entities that have been designated as Qualified Transmission Project Sponsors may submit proposals for projects address the identified needs consistent with the Public Notice Request for Proposals ("RFP") that will be issued by the ISO. The general steps for the Completive Solution process shall include:

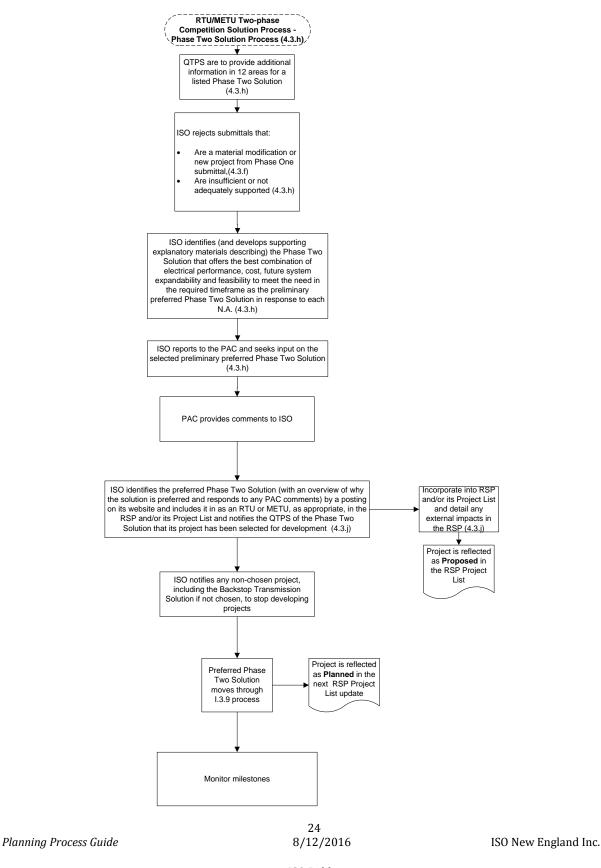
- 1. ISO issuing a Public Notice, which shall be a Request for Proposals to address the identified transmission system needs.
- 2. ISO review of all submitted Phase One Proposals and the Backstop Transmission Solution received in response to the RFP.
- 3. Advancement of Qualifying Phase One proposals as Phase Two Solutions where more detailed information will be provided by the QTPS.
- 4. ISO review of all submitted Phase Two Solutions and selection of a preliminary Preferred Solution.
- 5. Opportunity for PAC to comment on the preliminary Preferred Solution.
- 6. ISO determination of the Preferred Solution and notification to the respective QTPS that its project was selected for development and notification for all other QTPS's to stop work on their proposals.

Market solutions are not assessed in a Solutions Study and instead become an integral assumption in the Needs Assessment. See Section 2.4.8 for an explanation of how and when Market Solutions are considered.

An RFP may be cancelled by the ISO at any time. Reasons that an RFP might be cancelled include but are not limited to: the reliability needs have been addressed through market responses, system topology changes have changed the needs of the system, adequate responses were not received in response to an RFP.

The Competitive Solutions process is depicted by the following two flowcharts:





#### 2.9.2 Public Notification

The ISO will issue a public notice RFP associated with a Needs Assessment where a competitive solution process will be utilized pursuant to section 2.7 of this document. The public notice RFP will indicate that a QTPS(s) may submit a Phase One Proposals offering solutions that address the identified needs, and provide further details regarding requirements for competitive project submissions. The public notifications will be published to the ISO webpage under PAC Materials and an email notification will be sent to all members of the PAC. The public notification will include a submittal deadline for all Phase One Proposals.

#### 2.9.3 Unsponsored Projects

A member of the PAC that is not a QTPS but would like a project to be considered in a competitive solution process must identify a QTPS willing to submit a corresponding Phase One Proposal and Phase Two Solution before the public notice RFP submission deadline. The process for identifying a QTPS willing to submit a Phase One Proposal and Phase Two Solution includes the following steps:

- 1. The PAC member shall make a request to the ISO for assistance in identifying a sponsor.
- 2. The ISO shall post on its website and distribute to the PAC a notice that solicits expressions of interest by QTPS's for sponsorship of the conceptual project.
- 3. All expressions of interest shall include a detailed explanation of why they are the best qualified to construct, own and operate the unsponsored project.
  - a. If only one QTPS expresses interest, the ISO shall designate it as the project sponsor.
  - b. If more than one QTPS expresses interest, the PAC member shall select the sponsor.
  - c. In either case, the designated sponsor shall thereafter comply with the requirements of this guide, Attachment K and the ISO Tariff with respect to the project.
- 4. If no QTPS expresses interest, the unsponsored project may not be submitted.

#### 2.9.4 Phase One Proposal

A QTPS may submit a Phase One Proposal, in response to a public notice RFP that will address the identified needs. The responsible transmission owner or owners shall submit a Phase One Proposal as a Backstop Transmission Solution for any need that would be solved by a project located within or connecting to its/their existing electrical system and which there is obligation to build under Schedule 3.09(a) of the TOA. The Backstop Transmission Solutions sponsor(s). The requirements of a Phase One Proposal are described below in section 2.9.5.

A project sponsor shall identify any LSP projects that will require coordination with their proposals.

As part of a Phase One proposal a project shall not alter a PTO's use and control of existing right of way. The ISO Tariff does not require a PTO relinquish any of its rights of way in order to permit a QTPS to develop, construct or own a project.

#### 2.9.5 Requirements for a Phase One Proposal

With each proposal a QTPS, including the Backstop Transmission Provider(s), must include a \$100,000 study deposit payment per submitted proposal. The deposit will be applied towards the costs incurred by the ISO associated with the study of the Phase One and/or Phase Two proposal.

A Phase One Proposal shall be submitted by the deadline specified in the public notification posting by the ISO and will be no less than 60 days from the posting of the public notice RFP.

The following items must all be met in the submission of a Phase One Proposal or the ISO may reject the proposal for being insufficient or not adequately supported:

- i. A detailed description of the proposed solution, in the manner specified by the ISO, including an identification of the proposed route for the solution and technical details of the project;
- ii. A detailed explanation of how the proposed solution addresses the identified need;
- iii. The proposed schedule, including key high-level milestones, for development, siting, procurement of real estate rights, permitting, construction and completion of the proposed solution;
- iv. Right, title, and interest in rights of way, substations, and other property or facilities, if any that would contribute to the proposed solution or the means and timeframe by which such would be obtained; and
- v. The estimated lifecycle cost of the proposed solution, including a high-level itemization of the components of the cost estimate.

#### 2.9.6 Preliminary ISO Review

The ISO will perform preliminary review on all submissions received to a public notification.

- If the only submission received is that of the Backstop Transmission Solution the process will then proceed under the Solutions Study process described in Section 2.8 of this guide.
- Where there are multiple responses to the public notification, the ISO will perform a preliminary feasibility review for each proposal to see if the proposed solution:
  - Provides sufficient data and quality to satisfy Section 4.3(c) of Attachment K;
  - Appears to satisfy the need described in the Needs Assessment;
  - Is technically practical and indicates possession of or an approach to acquiring the necessary rights of way, property and facilities that will make the proposal reasonably feasible in the required timeframe; and
  - Is not eligible to be constructed only by an existing PTO in accordance with the TOA because the proposed solution is an upgrade to existing PTO facilities or because the costs of the proposed solution are not eligible for regional cost allocation under the OATT and will be allocated to the local PTO customers.

Planning Process Guide

26 8/12/2016

ISO New England Inc.

If a proposal does not adequately meet the above criteria it will be rejected.

If the ISO identifies any minor deficiencies in the Phase One Proposal linked to information provided as part of the Phase One Submittal (Section 2.9.7 above), the ISO will:

- Notify the Phase One Project Sponsor and provide an opportunity for the sponsor to correct the deficiencies in a time frame specified by the ISO.
- Reject a Phase One proposal if:
  - Clarifications are not deemed to be adequate or are not received in the specified timeframe.
  - The proposal is materially changed or is new.

Phase One Proposals that are deemed to have acceptable clarifications will be included in the list of qualifying Phase One Proposals.

The QTPS application requirements are broad in order to accommodate a pool of possible QTPSs with a wide range of capabilities. The number of QTPSs capable to construct, own, and maintain a project may decrease as the scale of a project increases. The ISO will review a QTPS's qualifications to verify that the QTPS is capable to construct, own and maintain the project they are proposing, and will reject associated project proposals due to insufficient qualifications.

## 2.9.7 List of Qualifying Phase One Proposals

When all proposals are reviewed, the ISO will post to its website<sup>17</sup> and provide to PAC a listing of all Phase One Proposals that meet the criteria specified in Section 2.9.5 of this guide. A PAC meeting will be held to solicit stakeholder input on the listing and proposals.

The ISO, with input from the PAC, may exclude projects from the listing and from submitting a Phase Two Proposal based on a determination that a project is not competitive with other projects that have been submitted in terms of:

- Cost,
- Electrical performance,
- Future system expandability, or
- Feasibility

The ISO will create and post a final listing of Phase One Proposals that can move to propose a Phase Two Solution and will provide information on why it has excluded a proposal from consideration in Phase Two. If the only proposal on the final listing of qualified Phase One Proposals is the Backstop Transmission Solution, the process will then proceed under the Solutions Study process described in Section 2.8 of this guide. The

<sup>&</sup>lt;sup>17</sup> Information on Phase One proposals that contains CEII information will be posted appropriately to the ISO's password protected portion of its website.

final listing will also include the submission deadline for a Phase Two Solution and that will be no less than 60 days from the posting on the final listing.

# 2.9.8 Phase Two Solutions: Requirements, Identification of Preferred Solution and Inclusion in the RSP

A QTPS that has a project listed on the final listing of Phase One Proposals, as described in Section 1.1.7 above, is eligible to submit a Phase Two Solution that shall consist of the following:

- (i) updates of the information provided in Phase One Proposals, or a certification that the information remains current and correct;
- (ii) list of required major Federal, State and local permits;
- (iii) description of construction sequencing, a conceptual plan for the anticipated transmission and generation outages necessary to construct the Phase Two Solution and their respective durations, and possible constraints;
- (iv) project schedule, with additional detail compared with Phase One Proposals, as specified by the ISO;
- (v) detailed cost component itemization and life-cycle costs;
- (vi) design standards to be used;
- (vii) description of the authority the sponsor has to acquire necessary rights of way;
- (viii) experience of the sponsor in acquiring rights of way;
- (ix) status of acquisition of right, title, and interest in rights of way, substations, and other property or facilities, if any, that are necessary for the proposed solution;
- (x) detailed explanation of project feasibility and potential constraints and challenges;
- (xi) description of the means by which the sponsor proposes to satisfy state legal or regulatory requirements for siting, constructing, owning and operating transmission projects; and
- (xii) detailed explanation of potential future expandability.

A Phase Two Solution must be submitted by the deadline specified in the posting of the final listing of Phase One Proposals as indicated in section 2.9.7 above.

The ISO will review and study all of the Phase Two Solutions that are received by the submission deadline. During this review the ISO will identify the project that offers the best combination of electrical performance, cost, future system expandability and feasibility to meet the need in the required timeframe as the preliminary preferred Phase Two Solution in response to the need(s) associated with a public notification. The ISO will document and post the reasons why this Phase Two Solution was chosen as the preliminary preferred Phase Two Solution and will seek PAC input during a comment period on the selection.

Once the comment period closes the ISO will:

• Identify and post to its website the preferred Phase Two Solution and a description of why it is the preferred Phase Two Solution.

Planning Process Guide

## 28 8/12/2016

ISO New England Inc.

- Notify the QTPS of the selected Phase Two Solution in writing that its project has been selected for development.
- Notify all non-selected QTPS's in writing to cease development of their solution including the Backstop Transmission Solution
- Reflect the preferred Phase Two Solution in the RSP and /or its Project List as an RTU or METU as appropriate.

Where external impacts of regional projects are identified through coordination by the ISO with neighboring entities, those impacts will be identified in the RSP.

#### 2.9.9 Milestone Schedule and Managing Milestones

Once a QTPS has received notification that its project was selected for development they shall:

- Submit to the ISO a schedule that indicates the dates by which applications for siting and other approvals necessary to develop and construct the project by the required in-service date shall be submitted, within 30 Business Days of its receiving notification.
- Periodically update the schedule above and provided it to the ISO. Periodically is defined as requests by the ISO or when the QTPS is aware of a change in the schedule.

Once a QTPS has received all siting and other approvals for its project they shall:

- Within 30 business days, submit its acceptance of responsibility and provide the ISO a schedule when typical project construction phase will be complete
- Submit monthly updates on the project schedule until the project is placed in service.

Once the project is complete and in service, the ISO will update the RSP and RSP Project List.

If the ISO finds that, after consultation with the non-PTO QTPS, the non-PTO QTPS is failing to pursue approvals or construction in a reasonable fashion, or that the QTPS is unable to proceed with the project due to forces beyond their control the ISO shall:

- Request the applicable PTO(s) implement the Backstop Transmission Solution,
- Prepare a report explaining why it has reassigned the project to the PTO(s)
- Request the non-PTO QTPS to prepare a report explaining why they were unable to complete the project.
- File the report, including the report from the non-PTO QTPS, with the FERC

If the QTPS that is failing or unable to proceed is a PTO the ISO shall:

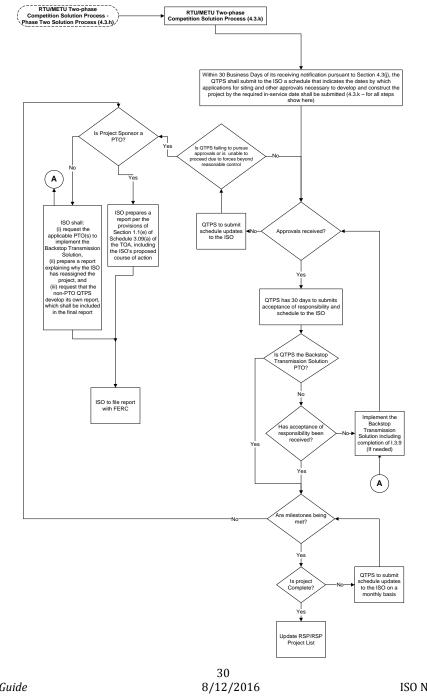
Planning Process Guide

29 8/12/2016

ISO New England Inc.

- Prepare a report consistent with the provisions of Section 1.1(e) of Schedule 3.09(a) of the TOA including a proposed course of action after consultation with the PAC.
- The ISO will then file the report with the FERC and implement the proposed course of action.

The Milestones process is outlined in the following flowchart:



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# Section 3 Planning for Public Policy

#### **3.1 Public Policy Transmission Upgrades Process**

#### 3.1.1 Process Overview

Every three years or less, the ISO will issue a notice indicating that Public Policy Requirements that drive transmission needs can be submitted to New England States Committee on Electricity NESCOE (state and federal) and the ISO (local) for consideration. If the determination is made that a Public Policy Transmission Upgrade will be pursued, QTPS(s) will be allowed to submit proposals for projects to develop, build, and operate one or more projects consistent with the general design requirements identified by the ISO in the Public Policy Transmission Study. The general steps for the Public Policy Transmission Study process shall include:

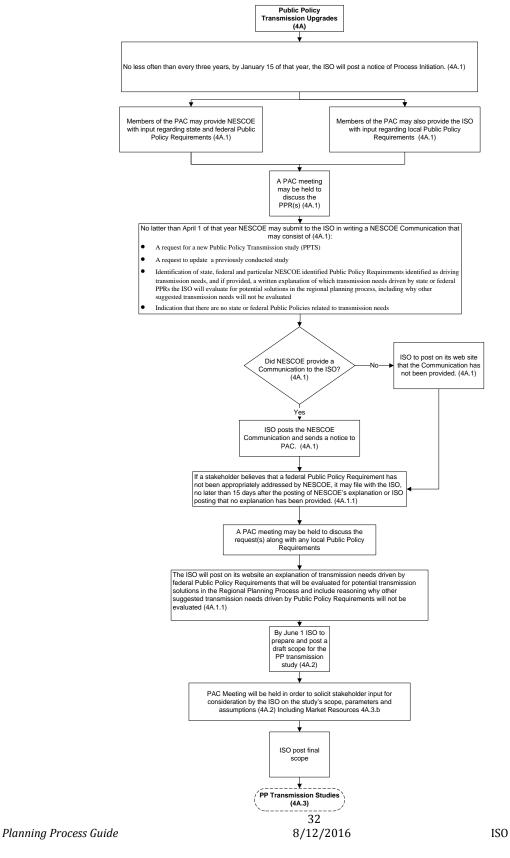
- 7. ISO issuing a Public Notice indicating input on state and federal Public Policy Requirements (PPR) can be submitted to NESCOE and local (e.g. municipal and county) PPRs can be submitted to the ISO.
- 8. Possible NESCOE Communication to the ISO regarding Public Policy, as described in section 1.1.3 below.
- 9. ISO review of NESCOE's Communication along with Stakeholder responses to the communication
- 10. Specification of the federal, state and local PPRs, if any, that will be addressed in a Public Policy Transmission Study (PPTS). Federal and state PPRs will be specified by NESCOE and, if required, by ISO. Local PPRs will be specified by ISO.
- 11. ISO performance of an initial phase of the PPTS and, if determined by ISO, a follow-on phase of the PPTS with opportunity for PAC to comment.
- 12. If a Public Policy Transmission Upgrade will be pursued, the ISO will issue a public notice RFP inviting QTPS's to submit Stage One Proposals and, after evaluating such proposals along with PAC input, the ISO will create and post a final listing of Stage One Proposals. A QTPS that has a project listed on the final listing is eligible to submit a Stage Two Solution.
- 13. ISO determination of the Preferred Solution and notification to the respective QTPS that its project was selected for development and notification for all other QTPS's to stop work on their proposals.
- 14. ISO monitoring project milestones until the project is in-service and complete.

Market solutions shall be reflected in the Public Policy Transmission Study. Market responses may include, but are not limited to, resources (e.g., demand-side projects and distributed generation) and Elective Transmission Upgrades.

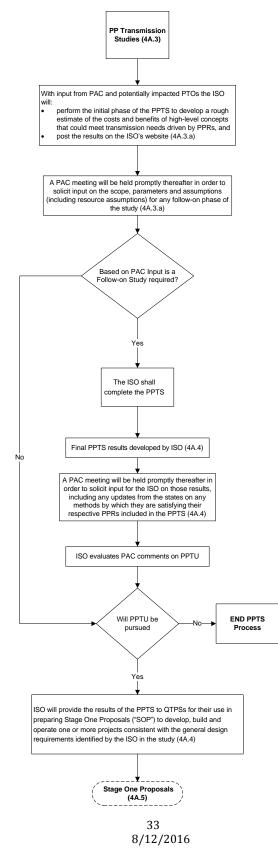
The Public Policy Transmission Study process is depicted by the following two flowcharts:

Planning Process Guide

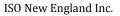
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#### 3.1.2 Public Notification for Public Policy Requirements

Every three years or less, by January 15 of that year (the Notice Year), the ISO will post a notice indicating that members of the Planning Advisory Committee may:

- Provide to NESCOE input regarding state and federal Public Policy Requirements identified as driving transmission needs relating to the New England Transmission System, and regarding particular transmission needs driven by those Public Policy Requirements
- Provide to the ISO input regarding local (e.g., municipal and county) Public Policy Requirements identified as driving transmission needs relating to the New England Transmission System, and regarding particular transmission needs driven by those Public Policy Requirements

The ISO may schedule a PAC meeting to allow for discussion on state, federal and local PPRs that may be submitted to NESCOE or the ISO.

#### 3.1.3 Submission by NESCOE

No later than April 1 of the Notice Year, NESCOE may submit to the ISO a written NESCOE Communication that may contain:

- A request for a new Public Policy Transmission study (PPTS)
- A request to update a previously conducted study
- Identification of state, federal and particular NESCOE identified Public Policy Requirements identified as driving transmission needs, and if provided, a written explanation of which transmission needs driven by state or federal PPRs the ISO will evaluate for potential solutions in the regional planning process, including why other suggested transmission needs will not be evaluated
- Indication that there are no state or federal Public Policies driving transmission needs

The ISO will post to its website and provide to PAC the NESCOE Communication and explanation.

If the NESCOE Communication does not provide a listing of identified transmission needs (which may consist of a NESCOE statement of its determination that no transmission needs are driven by state or federal Public Policy Requirements identified during the stakeholder process) and the explanation of which transmission needs driven by state or federal PPRs the ISO will evaluate for potential solutions in the regional planning process (which may consist of a NESCOE explanation of why no transmission needs are driven by state or federal Public Policy Requirements identified during the stakeholder process), the ISO will post to its website and send a notice to the PAC that a listing and explanation have not been received during the notice period. In that circumstance, the ISO will determine subsequently (after opportunity for PAC input), and post on its website, an explanation of which transmission needs driven by state or federal PPRs the ISO will evaluate in the regional planning process, including why other suggested transmission needs will not be evaluated.

#### 3.1.4 Responses to Public Policy Requests

After the posting of the NESCOE Communication or ISO's posting detailed above in section 3.1.3, stakeholders believing that NESCOE has not appropriately addressed a federal public policy requirement that may drive

|                        | 34        |
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| Planning Process Guide | 8/12/2016 |
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transmission will have 15 days to provide the ISO with a written request that seeks reconsideration by the ISO of NESCOE's position. A detailed reasoning must be provided with the written request that will allow the ISO to understand the stakeholders' position.

Where the ISO agrees with the positions of a stakeholder or the ISO's own findings on a federal policy driving transmission needs, the ISO may perform a PPTS for a federal policy need that was not identified by the NESCOE Communication. The ISO will post on its website an explanation of those transmission needs driven by federal PPRs not identified by NESCOE that will be evaluated for potential transmission solutions in the regional system planning process, and why other suggested transmission needs driven by federal PPRs not identified by NESCOE will not be evaluated. In addition, the ISO will post on its website an explanation of those transmission solutions in the regional system planning process, and why other suggested transmission needs driven by local PPRs that will be evaluated for potential transmission solutions in the regional system planning process, and why other suggested transmission needs driven by local PPRs will not be evaluated.

No later than June 1 of the Notice Year the ISO will prepare and post a draft scope for the PPTS. The draft scope will include associated parameters and assumptions (including resource assumptions). The PAC will be notified of the posting and the ISO will hold a PAC meeting in order to solicit stakeholder input for consideration by the ISO on the study scope, parameters, assumptions and market resources. Once the scope is finalized, the ISO will post it to its website and notify the PAC.

#### 3.1.5 Conduct Public Policy Transmission Study

With input from the PAC including potentially impacted PTOs, the ISO will perform the initial phase of the PPTS. During the initial phase of the PPTS, ISO shall develop a rough estimate of the costs and benefits of the high-level concepts that could meet transmission needs that are defined in the project scope. At the completion of this phase, the results will be posted on the ISO website and a meeting of the PAC will be held to solicit input on the initial phase of the PPTS and the scope parameters and assumptions (including resource assumptions) for any follow-on (additional study work) phase of the study. Based on PAC input, the ISO will determine if any follow-on study work is needed. The possible outcomes of the initial phase of the PPTS are the following:

- The PPTS process ends because implementation of the concepts related to the outcome of the study would not be beneficial to the region
- ISO completes the follow-on phase of the study to perform more detailed analysis and engineering work on the high-level concepts

Concepts related to the outcome of the PPTS move to the Stage One Proposals (Section 3.1.8) process because no follow-on study is required.

The final PPTS will be posted to the ISO website and the PAC will be notified of its posting. A meeting of the PAC will be held in order to solicit input on the results including any updates from the states on any methods by which they are satisfying their respective PPR included in the PPTS. The ISO will evaluate the input from the PAC and will also provide the results of the PPTS to QTPS's for their use in preparing a Stage One Proposal (see Section 3.1.8) to develop, build and operate one of more projects consistent with the general design requirements identified by the ISO in the PPTS.

Planning Process Guide

#### 3.1.6 Public Notification Request for Proposal

The ISO will post a public notice RFP for each high-level general project concept (concepts) identified by the ISO in the PPTS. The public notice RFP will indicate that QTPS's may submit a Stage One Proposal in response to a public notice RFP that will address the identified concepts. The public notifications will be published to the ISO webpage under PAC Materials and an email notification will be sent to all members of the PAC. The public notification RFP will include a submittal deadline for all Stage One Proposals.

#### 3.1.7 Unsponsored Projects

A member of the PAC that is not a QTPS but would like a project to be considered in a competitive solution process must identify a QTPS willing to submit a corresponding Stage One Proposal and Stage Two Solution before the public notice RFP submission deadline. The process for identifying a QTPS willing to submit a Stage One Proposal and Stage Two Solution includes the following steps:

- 5. The PAC member shall make a request to the ISO for assistance in identifying a sponsor.
- 6. The ISO shall post on its website and distribute to the PAC a notice that solicits expressions of interest by QTPS's for sponsorship of the conceptual project.
- 7. All expressions of interest shall include a detailed explanation of why they are the best qualified to construct, own and operate the unsponsored project.
  - a. If only one QTPS expresses interest, the ISO shall designate it as the project sponsor.
  - b. If more than one QTPS expresses interest, the PAC member shall select the sponsor.
  - c. In either case, the designated sponsor shall thereafter comply with the requirements of this guide, Attachment K and the ISO Tariff with respect to the project.
- 8. If no QTPS expresses interest, the unsponsored project may not be submitted.

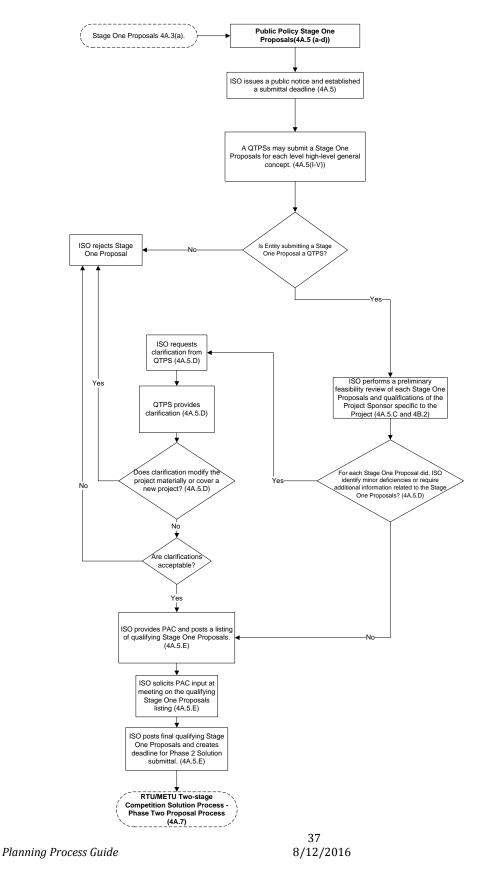
#### 3.1.8 Public Policy Stage One Proposals

QTPSs may submit a Stage One Proposal in response to a public notice RFP that will address the identified concepts by the deadline specified which shall not be less than 60 days from the posting of the public notice RFP. The requirements of a Stage One Proposal are described below in section 1.1.9.

A project sponsor shall identify any LSP projects that will require coordination with their proposals.

The Stage One Proposal process is depicted by the following flowcharts:

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#### **3.1.9 Requirements for a Stage One Proposal**

With each proposal a QTPS must include a \$100,000 study deposit payment per submitted proposal. The deposit will be applied towards the costs incurred by the ISO associated with the study of the Stage One and/or Stage Two proposal.

A Stage One Proposal shall be submitted by the deadline specified in the public notification RSP posting by the ISO, and will be no less than 60 days from the posting of the public notice RFP.

The following items must all be met in the submission of a Stage One Proposal or the ISO may reject the proposal for being insufficient or not adequately supported:

- vi. A detailed description of the proposed solution, in the manner specified by the ISO, including an identification of the proposed route for the solution and technical details of the project;
- vii. A detailed explanation of how the proposed solution addresses the identified need;
- viii. The proposed schedule, including key high-level milestones, for development, siting, procurement of real estate rights, permitting, construction and completion of the proposed solution;
- ix. Right, title, and interest in rights of way, substations, and other property or facilities, if any that would contribute to the proposed solution or the means and timeframe by which such would be obtained; and
- x. The estimated lifecycle cost of the proposed solution, including a high-level itemization of the components of the cost estimate.

#### 3.1.10 Preliminary ISO Review

The ISO will perform a preliminary feasibility review for each proposal to determine whether the proposed solution.

- i. Provides sufficient data and quality to satisfy Section 4.A5(a) of Attachment K;
- ii. Appears to satisfy the concept driven by Public Policy Requirements, as reflected in the Public Policy Transmission Study;
- iii. Is technically practical and indicates possession of or an approach to acquiring the necessary rights of way, property and facilities that will make the proposal reasonably feasible in the required timeframe; and
- iv. Is not eligible to be constructed only by an existing PTO in accordance with the TOA because the proposed solution is an upgrade to existing PTO facilities or because the costs of the proposed solution are not eligible for regional cost allocation under the OATT and will be allocated to the local PTO customers.

If a proposal does not adequately meet the above criteria it will be rejected.

38 8/12/2016

ISO New England Inc.

If the ISO identifies any minor deficiencies in the Stage One Proposal linked to information provided as part of the Stage One Submittal (Section 3.1.8 above), the ISO will:

- Notify the Stage One Project Sponsor and provide an opportunity for the sponsor to correct the deficiencies in a time frame specified by the ISO.
- Reject a Phase One proposal if:
  - Clarifications are not deemed to be adequate or are not received in the specified timeframe.
  - The proposal is materially changed or is new.

Stage One Proposals that are deemed to have acceptable clarifications will be included in the list of qualifying Stage One Proposals.

The QTPS application requirements are broad in order to accommodate a pool of possible QTPSs with a wide range of capabilities. The number of QTPSs capable to construct, own, and maintain a project may decrease as the scale of a project increases. The ISO will review a QTPS's qualifications to verify that the QTPS is capable to construct, own and maintain the project they are proposing, and will reject associated project proposals due to insufficient qualifications.

### 3.1.11 List of Qualifying Stage One Proposals

When all proposals are reviewed, the ISO will post to its website<sup>18</sup> and provide to PAC a listing of all Stage One Proposals that meet the criteria specified in Section 3.1.10 of this guide and also indicate whether any of the projects may also satisfy identified reliability needs of the system. A PAC meeting will be held to solicit stakeholder input on the listing and proposals.

The ISO, with input from the PAC, may exclude projects from the listing and from submitting a Stage Two Solution based on a determination that a project is not competitive with other projects that have been submitted in terms of:

- Cost,
- Electrical performance,
- Future system expandability, or
- Feasibility

The ISO will create and post a final listing of Stage One Proposals that can move to propose a Stage Two Solution. The final listing will also include the submission deadline for a Stage Two Solution and that will be no less than 60 days from the posting on the final listing.

<sup>&</sup>lt;sup>18</sup> Information on Stage One proposals that contains CEII information will be posted appropriately to the ISO's password protected portion of its website.

# **3.1.12 Stage Two Solutions: Requirements, Identification of Preferred Solution and Inclusion in the RSP**

A QTPS that has a project listed on the final listing of Stage One Proposals, as described in Section 1.1.7 above, is eligible to submit a Stage Two Solution that shall consist of the following:

- (i) updates of the information provided in Phase One Proposals, or a certification that the information remains current and correct;
- (ii) list of required major Federal, State and local permits;
- (iii) description of construction sequencing, a conceptual plan for the anticipated transmission and generation outages necessary to construct the Phase Two Solution and their respective durations, and possible constraints;
- (iv) project schedule, with additional detail compared with Phase One Proposals, as specified by the ISO;
- (v) detailed cost component itemization and life-cycle costs;
- (vi) design standards to be used;
- (vii) description of the authority the sponsor has to acquire necessary rights of way;
- (viii) experience of the sponsor in acquiring rights of way;
- (ix) status of acquisition of right, title, and interest in rights of way, substations, and other property or facilities, if any, that are necessary for the proposed solution;
- (x) detailed explanation of project feasibility and potential constraints and challenges;
- (xi) description of the means by which the sponsor proposes to satisfy state legal or regulatory requirements for siting, constructing, owning and operating transmission projects; and
- (xii) detailed explanation of potential future expandability.

A Stage Two Solution must be submitted by the deadline specified in the posting of the final listing of Stage One Proposals as indicated in section 3.1.11 above.

The ISO may reject Stage Two Solution submittals which are insufficient or not adequately supported.

The ISO will review and study all of the Stage Two Solutions that are received by the submission deadline. During this review the ISO will report on the preliminary preferred Stage Two Solution along with its views as to whether the preferred solution(s) also satisfies identified reliability needs on the system. The ISO will document and post the reasons why this Stage Two Solution was chosen as the preliminary preferred Stage Two Solution and will seek PAC input during a comment period on the selection.

Once the comment period closes the ISO will:

• Identify and post to its website the preferred Stage Two Solution and a description of why it is the preferred Stage Two Solution.

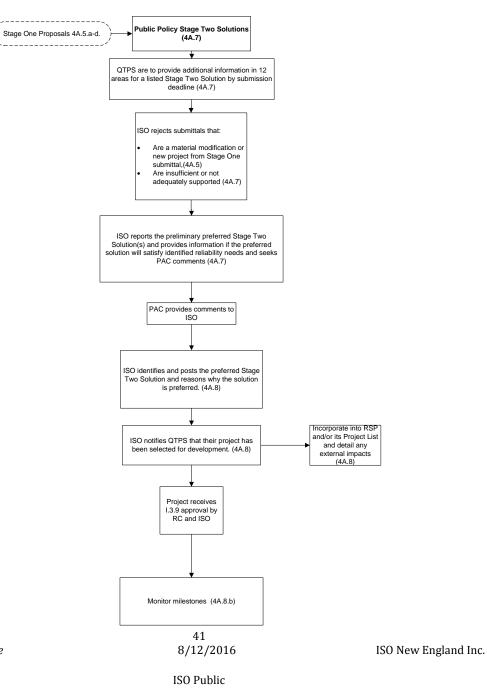
Planning Process Guide

40 8/12/2016

ISO New England Inc.

- Notify the QTPS of the selected Stage Two Solution in writing that its project has been selected for development.
- Notify all non-selected QTPS's in writing to cease development of their solution
- Reflect the preferred Stage Two Solution in the RSP and /or its Project List as Public Policy Transmission Upgrade

The Stage Two Solution process is depicted by the following flowcharts:



Planning Process Guide

#### 3.1.13 Milestone Schedule and Managing Milestones

Once a QTPS has received notification that its project was selected for development they shall:

- Submit to the ISO a schedule that indicates the dates by which applications for siting and other approvals necessary to develop and construct the project by the required in-service date shall be submitted, within 30 Business Days of its receiving notification.
- Periodically update the schedule above and provided it to the ISO. Periodically is defined as requests by the ISO or when the QTPS is aware of a change in the schedule.

Once a QTPS has received all siting and other approvals for its project they shall:

- Within 30 business days, submit its acceptance of responsibility and provide the ISO a schedule when typical project construction phase will be complete
- Submit monthly updates on the project schedule until the project is placed in service.

Once the project is complete and in service, the ISO will update the RSP and RSP Project List.

If the ISO finds that, after consultation with the non-PTO QTPS, the non-PTO QTPS is failing to pursue approvals or construction in a reasonable fashion, or that the non-PTO QTPS is unable to proceed with the project due to forces beyond their control the ISO shall, after consultation with the PAC:

- Prepare a report including a proposed course of action.
- Request the non-PTO QTPS to prepare a report explaining why they were unable to complete the project.
- File the report, including the report from the non-PTO QTPS, with the FERC including the ISO's proposed course of action.

If the QTPS that is failing or unable to proceed is a PTO the ISO shall:

- Prepare a report consistent with the provisions of Section 1.1(e) of Schedule 3.09(a) of the TOA including a proposed course of action after consultation with the PAC.
- File the report, including proposed course of action, with the FERC.

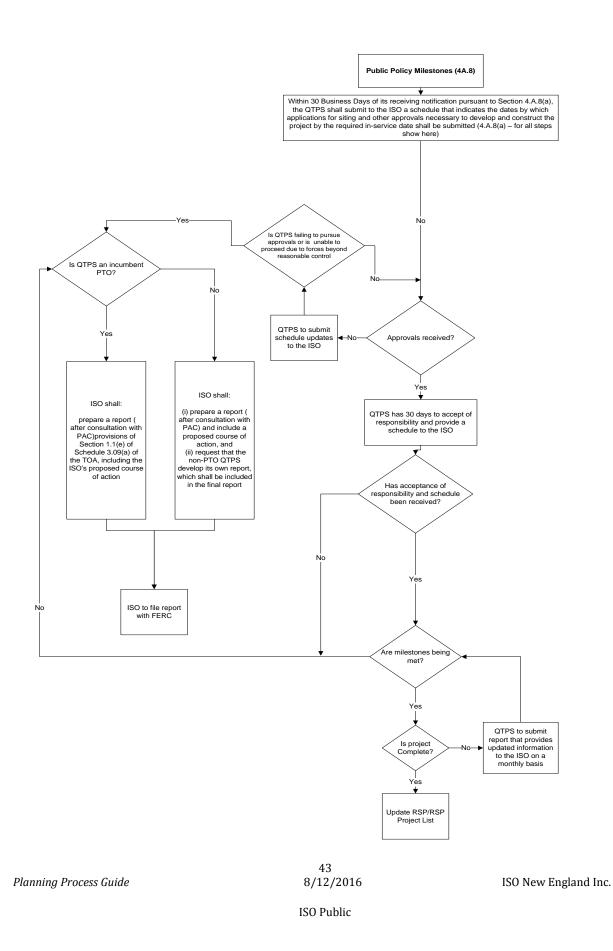
Proposed courses of action for when a Stage Two Solution is unable to proceed may include consideration and selection of another Stage Two Proposal relating to the pertinent Public Policy Requirement, or the resolicitation of Stage One Proposals to meet the pertinent Public Policy Requirement.

The Milestones process is outlined in the following flowchart:

Planning Process Guide

42 8/12/2016

ISO New England Inc.



## Section 4 Description of Interregional Coordination

### 4.1 Interregional Coordination for ISO, NYISO and PJM

As described in Section 7 to the Northeastern ISO/TRO Planning Coordination Protocol<sup>19</sup> the Joint ISO/RTO Planning Committee (JIPC) will review regional needs and solutions identified as part of the regional planning process of the ISO, NYISO and PJM to identify, with Interregional Planning Stakeholder Advisory Committee (IPSAC) input, if an Interregional Transmission Project (ITP) may potentially meet the regional needs more efficiently or cost-effectively than regional transmission projects. All PAC members shall be considered IPSAC members for this purpose. If it is determined that an ITP may be a solution to identified regional needs the JIPC will coordinate studies deemed necessary in order to allow effective consideration by the regions of a proposed ITP in comparison to a regional transmission solution. Any stakeholder may propose an ITP (or project concept) that may be more efficient or cost-effective than a regional transmission solution for evaluation under Section 2.8.1, 2.9.1 and 3.1.1 of this guide (Sections 4.2, 4.3 and 4A of Attachment K). This proposal may be submitted as a Phase One or a Stage One Proposal in response to an RFP Public Notice (Sections 2.9 and 3.1), or in writing to <u>PACMatters@iso-ne.com</u> as an alternative during a Solutions Study (section 2.8).

## Section 5 Regional System Plan

## 5.1 Description of the Regional System Plan

The ISO publishes the Regional System Plan ("RSP") on a yearly basis. This document is vetted with the PAC and is based on periodic comprehensive assessments of the PTF system-wide needs to maintain the reliability of the New England Transmission System while accounting for market efficiencies, economic, environmental and other considerations. The ISO updates the RSP with the results of ongoing Needs Assessments and Solutions Studies. In addition, the RSP accounts for projected improvements to the PTF that are needed to maintain system reliability and the operation of efficient markets. Further, the RSP must specify the physical characteristics of the physical solutions that can meet the needs defined in the Needs Assessments and include information on market responses that can address them. The RSP also provides sufficient information to allow Market Participants to assess the quantity, general location, operating characteristics and required availability criteria of the type of incremental supply or demand-side resource, or merchant transmission project that would satisfy the identified needs or that may serve to modify, offset or defer proposed regulated transmission projects. The provision of this type of information is evolving and has included approaches such as providing

<sup>&</sup>lt;sup>19</sup> http://www.iso-ne.com/committees/comm\_wkgrps/othr/ipsac/rto\_plan\_prot/planning\_protocol.pdf

critical load levels at which problems arise and providing preliminary identification of conceptual locations for market resources which can solve problems and serve as potential market inputs.

## **5.2 RSP Project Listing**

The following are the classification of projects that are listed in the RSP Project Listing<sup>20</sup>. The RSP Project Listing includes information about transmission project costs and changes to them over time. Further detail on estimate ranges can be found in Attachment D to ISO Planning Procedure No. 4:

- A "Concept" project may be suggested by its Proponents and placed on the Project List if a Needs Assessment has been completed. A Concept project does not require a cost estimate to be included as part of the list and may be considered for inclusion as part of the analysis conducted within a Solutions Study. For the project to move to another project classification, it must have a cost estimate consistent with what is shown below.
- A "Proposed" project is placed on the Project List after the Solution Study and the preferred transmission solution have been discussed with PAC and ISO has received that committee's advisory input. A "Proposed" project has a cost estimate that is -25% to +50%.
- A "Planned" project will only be placed on the Project List if a Needs Assessment & Solutions Study have been completed as described above and the Tariff section I.3.9 approval has been received. The cost estimate for a "Planned" project will increase in accuracy to +/-25% as detailed engineering progresses. A "Planned" project is still subject to a Schedule 12C review for Transmission Cost Allocation.
- An "Under Construction" project is a Transmission Upgrade that has received the approvals required under the Tariff and engineering and construction is underway.
- An "In Service" project is one that has been placed into operation.
- An Elective Transmission Upgrade ("ETU") that has a PTF component can be included on the Project List without a Needs Assessment. If an ETU does not have a PTF component then it will not be included on the Project List.

Note: A project may be cancelled if they are deemed no longer needed.

# **5.3 Inclusion and Update of Projects in the Regional System Project List**

The RSP Project List is updated periodically, typically three times per calendar year. Updates are given to the PAC in February/March, May/June and October. The Project List and updates are posted on the ISO website.<sup>21</sup> ISO asks the Participating Transmission Owners for updated information on the RSP Project List approximately two months before the posting date. The PTOs are expected to provide the updated information back to the ISO approximately one month prior to the posting date. New projects are added during the periodic updates.

Planning Process Guide

<sup>&</sup>lt;sup>20</sup> http://www.iso-ne.com/committees/comm\_wkgrps/prtcpnts\_comm/pac/projects/index.html

<sup>&</sup>lt;sup>21</sup> <u>http://www.iso-ne.com/committees/comm\_wkgrps/prtcpnts\_comm/pac/projects/index.html</u>

# Section 6 Planning Advisory Committee Process

## 6.1 Role of the PAC

The regional system planning process in New England is open and transparent and reflects advisory input from regional stakeholders, particularly members of the Planning Advisory Committee (PAC), according to the requirements specified in the Tariff and the planning principles described in FERC Order 890. The PAC is open to all parties interested in regional system planning activities in New England.

The Planning Advisory Committee may provide input and feedback to the ISO concerning the regional system planning process, development of the RSP, and updates to the RSP Project list. Specifically, the Planning Advisory Committee serves to review and comment on:

- Development of the RSP
- Assumptions for Studies
- Results of Needs Assessments and Solutions Studies
- Potential market responses to the needs identified by the ISO in a Needs Assessment or the RSP

The PAC, with assistance of and in coordination with the ISO, serves also to identify and prioritize requests for Economic Studies to be performed by the ISO, and provides input and feedback to the ISO concerning the conduct of Economic Studies, including criteria and assumptions for such studies.

Based on input and feedback from PAC to the ISO, the ISO refers to the appropriate NEPOOL technical committees, including but not limited to, the Markets, Reliability and Transmission Committees, issues and concerns identified by the PAC for further investigation and consideration.

## 6.2 Membership

The PAC is open to any entity, including state regulators or agencies. A regional state committee or similarly situated entity, as specified in Attachment N of the ISO Tariff, may designate a member to the Planning Advisory Committee. NESCOE currently fills this role in New England.

## 6.3 Meeting Notification, Frequency and Materials

Prior to the beginning of the calendar year, the ISO lists on its calendar<sup>22</sup> the proposed meeting dates of the Planning Advisory Committee for each month of the year. Before each meeting the ISO will provide notification of the meeting agenda, location, format and time to the PAC members via e-mail. Meetings are scheduled at a frequency needed to serve the intent of the Attachment K. The ISO posts materials for Planning

ne.com/calendar/month.action?date=20111228&cats=&type=&link=yes&filter=off

Planning Process Guide

ISO New England Inc.

<sup>&</sup>lt;sup>22</sup> Direct link to ISO monthly calendar http://www.iso-

Advisory Committee meetings on the Planning Advisory Committee section<sup>23</sup> on the ISO's website prior to meetings. The materials for the Planning Advisory Committee meetings are made available to the PAC members subject to protections required by confidentiality requirements of the ISO New England Information Policy set forth in Attachment D of the ISO Tariff and CEII policy as further described in Section 2.4(d) of Attachment K.

## 6.4 CEII Information and Materials

Planning materials determined to be CEII will be posted on the ISO's website. However access to this material requires stakeholders to possess an ISO-issued digital security certificate. To obtain access to planning-related materials determined to be CEII, the entity seeking to obtain such access must contact the ISO's Market Support Services department at 413-540-4220 or by e-mail, custserv@iso-ne.com. Authorized Market Participants or their representatives, such as consultants, are bound by the ISO New England Information Policy and will be able to access CEII materials through the ISO's website. State and federal governmental agency employees and their consultants will be able to access such materials through the ISO's website upon submittal of a signed nondisclosure agreement, which is available on the ISO's website. Personnel of the Electric Reliability Organization, NPCC, other regional transmission organizations or independent system operators, and transmission owners from neighboring regions will be able to access CEII materials pursuant to governing agreements, rules and protocols. All external requests by other persons for planning-related materials determined to be CEII shall be recorded and tracked by ISO's Market Support Services staff. Such requestors will be able to obtain access to CEII documents filed with the Commission pursuant to the Commission's regulations governing access to CEII. To the extent a request seeks access to planning-related material that is not filed with the Commission, such requestor shall comply with the requirements provided in the CEII procedures of the ISO, available on the ISO's website, prior to receiving access to CEII information. Upon compliance with the ISO's CEII procedures, the ISO shall grant the request or access to the planning-related CEII document through direct distribution or access to the ISO website. The ISO issues a draft version of the RSP each year that is listed as CEII because there may be CEII material in the document. The final version of the RSP that is released has been reviewed thoroughly and does not contain any CEII material and therefore does not need to be considered CEII.

## 6.5 TOPAC/Local System Planning

As described in Section 6 and Appendix 1 to attachment K, the PAC periodically provides input and feedback to PTO's concerning the development of their Local System Plans ("LSP"). It has been common practice to extend the PAC meeting to allow the PTO's the time to present their LSP's to any interested member of the PAC. Each PTO will present its respective LSP to the interested members of the PAC for advisory stakeholder input not less than one time per year. Each PTO's LSP will include transmission system plans for Non-Pool Transmission Facilities ("Non-PTF") that are not incorporated into the RSP planning process.

<sup>&</sup>lt;sup>23</sup> Direct link to PAC Materials: <u>http://www.iso-ne.com/committees/comm\_wkgrps/prtcpnts\_comm/pac/mtrls/index.html</u>

## Appendix A

# Request to enroll as a transmission provider in the New England transmission planning region

An entity will be enrolled as a transmission provider in the New England transmission planning region in accordance with Section 1.1 of Attachment K to Section II of the ISO New England Open Access Transmission Tariff if:

- the entity is a signatory to a transmission operating agreement. Such entities are automatically enrolled and no further action is necessary. Entities that are signatories to a transmission operating agreement as of May 18, 2015 will be enrolled as of that date. Signatories to a transmission operating agreement following May 18, 2015 will be enrolled as of the date that they become party to the agreement; or
- the entity is a party to a Market Participant Service Agreement (MPSA) coupled with a written notification to the ISO that the entity desires to be a transmission provider in the New England region. The completion and submittal of this enrollment form shall meet the "written notification" requirement. The entity will be enrolled as of the date that the form was received by ISO upon receipt of this completed form by ISO and ISO verification that the entity is a party to an MPSA.

Entities that are party to an MPSA that desire to enroll shall complete all fields in this form and email the completed form as an attachment to: <u>NEPlanningApp@iso-ne.com</u>

An email confirming successful enrollment will be sent from ISO to the email address from which the request was submitted and the email address of the Market Participant representative provided within the completed form. The name of the entity will be added to Appendix 2 of Attachment K to Section II of the ISO Tariff during its subsequent update.

Incomplete forms or not being a party to an MPSA will result in the rejection of the submitted enrollment form. An email notification of the rejection of the enrollment form will be sent from ISO to the email address from which the request was submitted and the email address for the Market Participant representative provided within the submitted form.

Planning Process Guide

ISO New England Inc.

Click here to enter Market Participant name requests enrollment as a transmission provider in the New England transmission planning region in accordance with Section 1.1 of Attachment K of the OATT.

MPSA number: Click here to enter MPSA number

- Address 1: Click here to enter Market Participant's address
- Address 2: Click here to enter Market Participant's address
- Address 3: Click here to enter Market Participant's address

Market Participant Representative Name: Click here to enter name of Market Participant's representative

Market Participant Representative Title: Click here to enter title of Market Participant's representative Tel: Click here to enter Market Participant representative's phone number

Email: Click here to enter Market Participant representative's email address

# **Appendix B**

## **Qualified Transmission Project Sponsor Application Form**

#### Instructions:

- Questions related to this form and the Guideline are to be directed to:
  - <u>QTPS@iso-ne.com</u> or Bruce Kay 413-535-4062
- **Include attachments, if needed:** If the Applicant would prefer to utilize a separate document to answer a question under Part II of this Application or provide materials in support of a question, they may include the answer/materials as an attachment. Please mark the attachment so that it is clear as to which question the answer/material relates.
- Submittal of Form:
  - Application submittals (including attachments) larger than 5 MBs may not clear the ISO-NE firewall. Applications greater than 5 MBs should be divided into sub-5 MB files and then submitted separately.
  - Submit this Application to the ISO via <u>QTPS@iso-ne.com</u>

#### Part I – General Information

| Legal name of Company Applying for QTPS status<br>("Applicant") |  |
|---|--|
| Legal type of Applicant   | □Sole Proprietor<br>□Partnership<br>□Corporation<br>□Limited Liability Company<br>□Municipal-Owned Entity<br>□Other (describe) |
| State and date where Applicant was organized                    |  |
| Business Mailing address for Applicant                          |  |
| Web address for Applicant (if one exists)                       |  |
| Dun and Bradstreet Number                                       |  |
| Is the Applicant a party to (check all that apply):             | □ TOA<br>□ NTDOA<br>□ MPSA #   |

## **QTPS Applicant Information**

| Applicant's NERC Registration (check all that apply) |                        | □ Transmission Owner    |                                    |
|--|------------------------|-------------------------|------------------------------------|
|  |                        | □ Transmission Operator |                                    |
|  |                        | □ Transmission Planner  |                                    |
|  |                        | □ A NERC "F             | Entity Task" other than that noted |
|  |                        | above (list):           | ·                                  |
|  |                        | □ Not current           | ly registered with NERC            |
| Company Officer(s)/                                  |                        |                         |                                    |
| Representative(s) of the                             |                        |                         |                                    |
| Applicant who is/ are duly                           |                        |                         |                                    |
| authorized to sign this                              |                        |                         |                                    |
| Application: (Name / Title)                          |                        |                         |                                    |
|  |                        |                         |                                    |
|  | <b>Primary Contact</b> |                         | Secondary Contact                  |
| Name   |                        |                         |                                    |
| Title  |                        |                         |                                    |
| Company Name   |                        |                         |                                    |
| Phone  |                        |                         |                                    |
| Fax  |                        |                         |                                    |
| E-mail address                                       |                        |                         |                                    |
| Mailing Address                                      |                        |                         |                                    |

#### Part II – Supporting Experience/Information

- 1. Provide evidence that Applicant legally exists. This may be in the form of a corporate charter issued by a state or local jurisdiction, filed articles of incorporation, an executed partnership agreement or similar document.
- 2. Provide evidence of Applicant's experience with financing or arranging financing for the construction of electric transmission facilities.<sup>24</sup>
  - a. Include a description of at least the three largest such projects developed in the past ten years.
  - b. Include a description of the capital costs and financial structure of such projects, whether the projects entered into commercial operation, and whether any projects are in default.
- 3. Provide the Applicant's current and expected capability to finance or arrange for financing for electric transmission facilities.
  - a. Submit the Applicant's capital procurement plan;
  - b. Submit evidence of Applicant's recent experience procuring capital for the construction of electric transmission facilities or interconnecting to the transmission system;
  - c. Submit Applicant's credit ratings received from S&P, Moody's and any other Nationally Recognized Statistical Rating Organization;

<sup>&</sup>lt;sup>24</sup> For purposes of this QTPS application, an electric transmission facility(ies) includes regional and local transmission lines and associated facilities rated 69 kV and above (e.g., transmission lines and associated equipment, substations, capacitor and reactor banks, generator interconnections, STATCOMs, SVCs).

- d. Provide a statement regarding whether the Applicant is presenting its capability to construct, own and maintain electric transmission facilities on its own or whether it will be supported by a parent or affiliated company;
- e. If relying on a parent or affiliate company in presenting its capability to construct, own and maintain electric transmission facilities, submit a description of the business relationship to the affiliate company, and the agreements in place between the Applicant and the affiliate company relevant to reliance on the relationship to the affiliate company as part of this Application; and
- f. Submit a summary of Applicant's history of bankruptcy or dissolution in the last five calendar years.
- 4. The Applicant shall provide information describing how it would utilize its existing capabilities and competencies or acquire any additional capabilities and competencies needed to plan and construct an electric transmission facility proposed under Attachment K to Section II of the ISO-NE Tariff. This information shall be submitted with this Application as Attachment A and shall include as headings, the specific project implementation tasks listed below in the order presented.

3.1 Describe your capabilities to accomplish the following key tasks in electric transmission facility development and construction, including:

- a. Project management;
- b. Plans for development of project management, engineering, material, and construction standards and practices to be followed for specific types of facilities;
- c. Preliminary and detailed engineering, design, and surveying;
- d. Routing and siting studies, including public outreach;
- e. Plans for retaining and qualifying personnel or contractors;
- f. Material, tools, vehicles and equipment procurement;
- g. Construction;
- h. Commissioning and testing; and
- i. Plans for utilizing infrastructure and resources owned and operated by an affiliate company.

If Applicant will utilize capabilities or competencies from a Parent, Affiliate, or contracted thirdparties to meet the project implementation requirements, those capabilities or competencies must be identified in Attachment A as being provided by said Parent, Affiliate, or contracted third-parties.

3.2 Describe your capabilities to accomplish the following key tasks regarding electric transmission facility operation and maintenance.

Provide a detailed business implementation plan describing how it would utilize the existing capabilities and competencies identified in Section II, above, or acquire any additional capabilities and competencies needed to operate and maintain an electric transmission facility proposed under Attachment K to Section II of the ISO-NE Tariff. The operation and maintenance plan shall be submitted with this Application as Attachment B and shall include as headings, the specific project implementation tasks listed below in the order presented.

- Forced Outage Response;<sup>25</sup> a.
- Switching (for electric transmission line circuits & substations);<sup>26</sup> b.
- Emergency repair, testing and response times;<sup>27</sup> c.
- d. Preventative and/or predictive maintenance, including vegetation management and equipment testing:<sup>28</sup>
- Maintenance and management of spare parts, spare structures, and/or spare equipment e. inventories for electric transmission lines and/or substations;<sup>25</sup>
- f. Real-time operations monitoring and control capabilities;
- Major facility replacements or rebuilds required as a result of catastrophic destruction or g. natural aging through normal wear and tear, including financial strategy to facilitate timely replacements and/or rebuilds:<sup>30</sup>
- h. Plans for retaining and qualifying personnel or contractors;
- Plans for utilizing infrastructure and resources owned and operated by an affiliate company; i.
- Plans for acquiring required tools, equipment, and vehicles; j.
- Plans for development of maintenance standards & practices to be followed for specific types k. of facilities;
- 1. Plans for developing standards governing where personnel, equipment, and spare parts/equipment will be maintained with respect to potential future facilities (e.g., maximum distance between facility & local office, etc.); and
- Plans for maintaining adequate capital procurement capabilities to rebuild facilities following m. major catastrophic outages (including property insurance and risk mitigation strategies).

If the Applicant will utilize capabilities or competencies from a Parent, Affiliate, or contracted thirdparties to meet the project implementation requirements, those capabilities or competencies must be identified in Attachment B as being provided by said Parent, Affiliate, or contracted third-parties.

Including

<sup>27</sup> Including planned policies and procedures, source and location of resources (e.g., labor, equipment, base of operations), anticipated contractor agreements, and anticipated response times

<sup>28</sup> Including planned policies and procedures, source and location of resources (labor, equipment, base of operations), anticipated contractor agreements, and anticipated response times. Includes program description for transmission lines, substations, and major equipment including type of program (e.g., time-based, condition-based, duty-based, etc.), maintenance intervals (e.g., inspection, patrol, testing, routine maintenance), equipment testing program details (e.g., types of testing performed, test equipment utilized, testing results analysis, corrective action thresholds, etc.), inspection and patrol checklists, and other pertinent information.

<sup>29</sup> Including planned policies and procedures, source and location of spare major equipment and spare parts, and proposed sharing agreements with other entities

<sup>30</sup> Including planned policies and procedures, source of funding, source and location of resources (e.g., labor, contractors equipment, base of operations), anticipated contractor agreements, and anticipated response times

Planning Process Guide

<sup>25</sup> 

Including source and location of resources (e.g., labor, contractors, equipment, base of operations), line patrol policies and procedures, equipment testing and diagnostic policies and procedures, troubleshooting policies and procedures, policies and procedures to interpret fault recording and sequence of events recording data including coordination with other entities, fault removal procedures including emergency clearance and coordination with other entities, emergency repair procedures, and anticipated response times

<sup>26</sup> 

preparation, approval, and issuance of switching orders and clearance, field switching procedures, tagging procedures, location of resources (e.g., labor, contractors, and base of operations), and description of procedures to handle emergency switching, planned switching, and switching coordination with other entities

3.3 Provide a description of the Applicant's safety assurance and risk management plans.

Provide a detailed description of the planned safety assurance and risk management plan including descriptions of planned safety rules, safety policies, safety prevention programs, and safety training. In addition, the plan should address general policies, strategies, and procedures to be employed for risk management to address and mitigate potential risks including, but not limited to, potential litigation from liability claims, catastrophic premature failure or destruction of assets, and legal or regulatory compliance violations. The safety assurance and risk management plan shall be submitted with this Application as Attachment C.

- 5. Provide a description of the Applicant's capability or experience in meeting development and completion schedules as it pertains to construction, maintenance, and operation of electric transmission facilities.
- 6. Provide a description of the Applicant's business practices that demonstrate consistency with Good Utility Practice and capability to address and timely remedy failure of facilities relative to constructing, maintaining and operating electric transmission facilities.
- 7. Provide a description (including construction cost details, location, circuit miles, voltage levels and equipment descriptions) of electric transmission facilities that the Applicant has previously constructed, maintained and operated within the past ten years and the status of those facilities, including whether the construction was suspended or terminated and for what reason, whether construction was completed, whether the facility entered into commercial operation, whether the facility failed to perform as it was designed and for what reason. Include any history and evidence demonstrating ability to maintain those facilities, along with a record of past reliability performance.
- 8. Provide evidence to demonstrate the Applicant's ability or experience with meeting:
  - a. NERC and/or NPCC reliability standards or compliance requirements, including descriptions of associated violations and/or pending violations; and
  - b. ISO-NE Operating Documents.<sup>31</sup>

#### Part III - Signature

The Applicant hereby represents and warrants that all statements and representations made herein, including any supporting documents, are true to the best of the Applicant's knowledge and belief.

```
By: _
```

(Authorized Representative of the Applicant)

Date:

Name:

Title:

#### Acknowledgement of Receipt by ISO-NE:

Date: \_\_\_\_\_ / Time: \_\_\_\_\_ of receipt by ISO New England Inc. of the Application.

<sup>&</sup>lt;sup>31</sup> ISO New England Operating Documents include the Tariff, ISO New England Planning Procedures and the operating guides, manuals, procedures and protocols developed and utilized by the ISO for operating the ISO bulk power system and the New England Markets.

By: \_\_\_\_\_

Name:

Title:

Planning Process Guide

# Appendix C

### **Qualified Transmission Project Sponsor Annual Certification Form**

#### Instructions:

- Questions related to this form and the QTPS process are to be directed to:
  - o <u>QTPS@iso-ne.com</u>, or Bruce Kay at 413-535-4062

#### • Include attachments, if needed:

A QTPS may, as an attachment to this form, include a separate document to explain, or provide additional supporting information, as to why there may have been an adverse material change to the information included in the Accepted Application. Please mark the attachment so that it is clear as to which question the answer/material relates.

#### • Submittal of Form:

- A QTPS must complete and submit this QTPS Annual Certification Form to the ISO between the beginning of the day on January 1<sup>st</sup> through the end of the day on January 31<sup>st</sup> of every year following ISO-NE's approval of the entity's QTPS status.
- o Submit this "QTPS Annual Certification Form" to the ISO via QTPS@iso-ne.com

#### **QTPS Annual Certification Form**

Submittal Date: \_\_\_\_\_

Name of Entity with QTPS Status: \_\_\_\_\_

The undersigned hereby represents that all statements made herein, including any supporting documents, are true to the best of his/ her knowledge and belief.

#### Part I – Declaration of Adverse Material Change

Please mark either of the following relevant to the intervening year:

- \_\_\_\_\_ There <u>have not</u> been any adverse material changes to the information included in the Accepted Application.
- \_\_\_\_\_ There **<u>has</u>** been an adverse material change(s) to the information included in the Accepted Application.
  - If so, please explain.

#### Part II – Identification of Supporting Agreements

Please mark any of the following that currently apply:

As of January 1<sup>st</sup> of this year, the entity with QTPS status is party to:

\_\_\_\_\_ the TOA

\_\_\_\_\_ an NTDOA

\_\_\_\_\_ an MPSA (i.e., is a Market Participant)

#### Part III – Signature

By: \_\_\_\_

Signature of Authorized Representative of QTPS

Name (printed)

Title

Email and Phone

QTPS Name

57 8/12/2016

Planning Process Guide

Dun and Bradstreet Number

Date Signed

Planning Process Guide