PJM TRANSMISSION OWNERS ATTACHMENT M-3 PROCESS GUIDELINES

Version 0.1
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<table>
<thead>
<tr>
<th>Version</th>
<th>Adopted by Transmission Owners</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.1 (Draft)</td>
<td>[date]</td>
</tr>
</tbody>
</table>
Guidelines for Attachment M-3 Process

1 INTRODUCTION

In this introductory section, you will find information about this guide, the purpose of this document, and the intended audience.

1.1 About This Document

This document provides general guidelines to implement the FERC-approved PJM Tariff framework for planning Supplemental Projects under PJM Open Access Transmission Tariff (OATT) Attachment M-3 (the “M-3 Process”). These guidelines have been developed and adopted by the PJM Transmission Owners that plan Supplemental Projects through the M-3 Process and that are listed in Appendix 1 (“Transmission Owners”). These guidelines are subject to change from time to time and the Transmission Owners plan to review them on an annual basis. Additional PJM Transmission Owners that plan Supplemental Projects may also adopt these guidelines.

The uniform approach presented in these PJM Transmission Owners Attachment M-3 Process Guidelines (“Guidelines”) provides all stakeholders with an understanding of the step-by-step interactive information exchange process under the M-3 Process, including how they can best provide input at various stages of the process. However, nothing in this document modifies Attachment M-3 in any respect or imposes obligations or confers any rights or privileges on PJM, Transmission Owners, or stakeholders. Accordingly, this document should be interpreted to be consistent with the provisions of Attachment M-3 and if anything in this document appears to be inconsistent with anything in Attachment M-3, the provisions of Attachment M-3 govern. In addition, nothing in this document should be interpreted to preclude any Transmission Owner from holding additional meetings or communications with stakeholders regarding the planning of Supplemental Projects.

1.2 Intended Audience

The intended audience for these Guidelines includes the following:

- Transmission Owners’ planning, legal, and regulatory staff
- Transmission customers and their representatives
- Federal, state, and local government and regulatory personnel
- PJM staff and leadership
- PJM members and other interested PJM stakeholders
2 SUPPLEMENTAL PROJECT PLANNING OVERVIEW

2.1 Purpose

The process followed by the Transmission Owners to plan Supplemental Projects with PJM and the PJM stakeholders is laid out in Attachment M-3. Attachment M-3 outlines how the TEAC and Subregional RTEP Committees, assigned responsibility for review of Supplemental Projects, review assumptions and methodology, system needs, and potential solutions to meet those needs and how stakeholders can provide comments on the Supplemental Projects the Transmission Owners select to be included in the Local Plan. This document provides further information about the process laid out in Attachment M-3.

FERC accepted Attachment M-3 as just and reasonable in Docket No. ER17-179-000. In its September 26, 2018 rehearing order in that docket, FERC explained,

The Supplemental Projects planning process established in Attachment M-3, with the revisions directed in the February 15 Order, provides for separate meetings for stakeholders to review and discuss the assumptions that the PJM Transmission Owners use to plan and identify Supplemental Projects, the identified criteria and system needs that may drive the need for Supplemental Projects, and potential solutions and alternatives to meeting those needs. The process further prescribes time periods for stakeholders to review materials and provide comments which . . . we find to be sufficient to comply with Order No. 890. We confirm that this process ensures that the Supplemental Projects planning process in PJM complies with Order No. 890, including by providing sufficient transparency to stakeholders regarding the basic criteria, assumptions, and data that underlie their transmission system plans and ensuring appropriate lines of communication between stakeholders and the PJM Transmission Owners.

FERC recognized that its orders do not require all transmission planning within an RTO such as PJM to be conducted by the RTO, saying, “When transmission owners participate in an RTO, the Commission did not require them to allow the RTO to do all planning for local or Supplemental Projects. Rather, the Commission recognized ‘RTO planning processes may focus principally on regional problems and solutions, not local planning issues that may be addressed by individual

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2 164 FERC ¶ 61,217 at P 30, citing Order No. 890, FERC Stats. & Regs. ¶ 31,241 at PP 454, 461, 471.
transmission owners.”3 Attachment M-3 describes the open and transparent process through which the Transmission Owners conduct planning for Supplemental Projects to complement and coordinate with PJM’s preparation of the RTEP.

2.2 Supplemental Project Definition and Drivers

2.2.1 Definition
A Supplemental Project is defined in the PJM Operating Agreement as a transmission expansion or enhancement that is not required for compliance with the following PJM criteria: system reliability, operational performance or economic criteria, pursuant to a determination by the Office of the Interconnection and is not a state public policy project.

Supplemental Projects are critical to the transmission system. They are transmission expansions or enhancements that enable the continued reliable operation of the transmission system by meeting customer service needs, enhancing grid resilience and security, promoting operational flexibility, addressing transmission asset health, and ensuring public safety, among other things. Supplemental Projects may also address reliability issues for transmission facilities that are not considered under NERC requirements or other PJM criteria. Maintenance work and emergency work (e.g., work that is unplanned, including necessary work resulting from an unanticipated customer request, to repair equipment or facilities damaged by storms or other causes, or to replace failing or failed equipment) do not constitute Supplemental Projects.

2.2.2 Drivers
The table below reflects the five primary drivers of Supplemental Projects. Each Transmission Owner explains the criteria, assumptions, and models it uses to identify needs implicating one or more of these drivers at the annual assumptions meeting provided under the M-3 Process. Each Transmission Owner also presents the needs it has identified applying these criteria, assumptions, and models at the needs meeting. FERC has recognized that this process provides “additional transparency [that] will help mitigate concerns that Supplemental Projects may be

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3 164 FERC ¶ 61,217 at P 13, quoting Order No. 890, FERC Stats. & Regs. ¶ 31,241 at PP 440.
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structured to avoid or replace regional transmission projects that would otherwise be subject to competitive transmission development under Order No. 1000.”

<table>
<thead>
<tr>
<th>Customer Service</th>
</tr>
</thead>
<tbody>
<tr>
<td>Service to new and existing customers. Interconnect new customer load. Address distribution load growth, customer outage exposure, equipment loading.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Equipment Material Condition, Performance and Risk</th>
</tr>
</thead>
<tbody>
<tr>
<td>Degraded equipment performance, material condition, obsolescence, including at the end of the useful life of equipment or a facility, equipment failure, employee and public safety and environmental impact.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Operational Flexibility and Efficiency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Optimizing system configuration, equipment duty cycles and restoration capability, minimize outages.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Infrastructure Resilience</th>
</tr>
</thead>
<tbody>
<tr>
<td>Improve system ability to anticipate, absorb, adapt to, and/or rapidly recover from a potentially disruptive event, including severe weather, geo-magnetic disturbances.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>Meet objectives not included in other definitions such as, but not limited to, technological pilots, industry recommendations, environmental and safety impacts, etc.</td>
</tr>
</tbody>
</table>

Transmission expansions or enhancements that replace facilities that are near or at the end of their useful lives is a primary focus of the Supplemental Project driver Equipment Material Condition, Performance and Risk. To maintain the safety and reliability of the grid, the need to replace or retire a facility nearing or at the end of its useful life is determined by the Transmission Owner on a case by case basis or programmatic approach, based on good utility practice and the assumptions the Transmission Owner has identified. Such activities may take place through the M-3 Process.

By way of reference, with respect to certain expansions or enhancements, programmatic replacement can reflect a Transmission Owner’s approach of replacing a particular asset class,

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4 162 FERC ¶ 61,129 at P 108.
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design or vintage throughout its system as a result of, but not limited to, reliability concerns, maintenance concerns, known defects, engineering recommendations and general system or asset risk. A Transmission Owner may also determine to replace an individual asset near or at the end of its useful life based on an engineering recommendation driven by factors such as an asset failure or presenting undue risk of failure, uneconomical maintenance, and outdated or obsolete technology and equipment. Those factors for a particular asset that is near or at the end of its useful life are evaluated based upon the facility’s health and condition, which can be determined by performance history, maintenance history, equipment criticality, age, and other considerations for a specific facility. While each Transmission Owner develops and applies its own factors and considerations for addressing facilities at or near the end of its useful life, the diagram below generally illustrates some of the parameters that may be considered in the evaluation.
2.3 Roles and Responsibilities

2.3.1 Transmission Owners
Under Attachment M-3, each Transmission Owner that plans Supplemental Projects is responsible for:

- Supplemental Project planning and asset management activities in accordance with that Transmission Owner’s assumptions, criteria, and methodologies.
- Timely providing PJM with materials related to assumptions, needs, potential solutions, and the Supplemental Projects it intends to include in its Local Plan so that stakeholders are informed and PJM can perform its obligations under Schedule 6 of the Operating Agreement.
- Determining how to respond to stakeholder comments or questions throughout the Supplemental Project Planning process.

2.3.2 PJM Stakeholders
Participating PJM stakeholders are responsible for:

- Articulate and provide materials regarding their needs and potential solutions so that the Transmission Owner can appropriately consider and evaluate stakeholder input when developing its solutions and finalizing its submittal to PJM of Supplemental Projects for inclusion in its Local Plan.

In addition, participating PJM stakeholders are encouraged to:

- Review Transmission Owner provided materials presented for the assumptions, needs, and solutions meetings.
- Articulate relevant questions and concerns at the appropriate stages of the Supplemental Project planning process.

2.3.3 PJM
PJM, in its role as a facilitator in the M-3 Process, is responsible for:

- Providing necessary facilitation and logistical support so that Supplemental Project planning meetings can be conducted as outlined in OATT Attachment M-3
Guidelines for Attachment M-3 Process

• Providing the applicable Transmission Owners with modeling information so that the Transmission Owners can determine if a stakeholder proposed project can address a Supplemental Project need
• Performing Do-No-Harm analysis to ensure that a Supplemental Project a Transmission Owner selects for inclusion in its Local Plan does not cause additional reliability violations.

3 SUPPLEMENTAL PROJECT PLANNING PROCESS

3.1 Overview of Exchange of Information During the M-3 Process

Through the M-3 Process, the Transmission Owners provide information and receive input from stakeholders about (1) the criteria, assumptions, and models they use to develop Supplemental Projects; (2) the system needs they identify based on those criteria, assumptions, and models; (3) the potential solutions they develop to address those needs; and (4) the Supplemental Projects that each Transmission Owner selects for inclusion in its Local Plan. Each of those steps is described in Attachment M-3 and in these Guidelines. The standard elements of presentations used to convey this information, as well as applicable timelines and process elements are described graphically in Appendices [X] through [Y] to these Guidelines.

Stakeholders can also use the M-3 Process to identify needs on a Transmission Owner’s system that may be satisfied by a Supplemental Project and/or potential solutions to the needs identified by a Transmission Owner or stakeholder. Stakeholders may also provide comments or questions during each stage of the M-3 Process. The primary vehicle for stakeholders to provide questions and comments under the M-3 Process is through the PJM Planning Community. At each stage of the M-3 Process, stakeholder questions and comments should be directed to the matters under consideration at that stage (i.e., stakeholder questions and comments at the needs identification stage should be directed to the needs identified by the Transmission Owners and stakeholders).

Responses to stakeholder questions or comments may be accomplished through updates to the slides used in the presentation from which the comments were received, or through responses in the Planning Community. If the information to be provided does not fall within the boundaries of information which can be accommodated on slides, then the response should be provided through the Planning Community unless the response requires access to confidential
Guidelines for Attachment M-3 Process

or CEII information. If confidential or CEII information is required to provide a response to the comment from a stakeholder, then the appropriate protections for the information must be secured prior to providing the information to the stakeholder(s) requesting the information, and PJM will provide the information through a secure transport mechanism to the stakeholder(s) requesting the information.

3.2 Steps in the M-3 Process

The M-3 Process comprises the steps described below.

1. Review of Assumptions and Methodology

Each TEAC and Subregional RTEP Committee shall schedule and facilitate a minimum of one stakeholder meeting to review the criteria, assumptions, and models that each Transmission Owner proposes to use to plan and identify Supplemental Projects. These criteria may be qualitative, rather than quantitative or other bright-line tests, as a Transmission Owner may identify needs for Supplemental projects based on the qualitative consideration of a number of factors. The models used in the M-3 Process are the load flow, short circuit, and/or stability models required to review the impacts of potential solutions under the M-3 Process. They incorporate the current topology of the systems necessary for modeling any needs which are already evident at the time of the assumptions meetings. The discussions of the criteria, assumptions, and models may be combined with discussions required for other processes, such as baseline analysis, and conducted at a single meeting for the relevant Transmission Owner to cover both the TEAC and Subregional RTEP Committee meeting requirements.

Each Transmission Owner shall target to provide the criteria, assumptions, and models to PJM 25 days prior to the scheduled Assumptions Meeting to allow PJM to post the materials at least 20 days in advance of the Assumptions Meeting.

Stakeholders may provide comments on the criteria, assumptions, and models through at the Assumptions Meeting or the Planning Community. For stakeholder comments submitted through the Planning Community, PJM will provide this information to the Transmission Owner for consideration either prior to or following the Assumptions
Guidelines for Attachment M-3 Process

Meeting. The Transmission Owner shall review and consider comments that are received no more than 10 days following the Assumptions Meeting and may respond or provide feedback as appropriate.

During the review of a need or solution under the M-3 Process, it may become evident that a model that had not been previously provided to the stakeholders will be required to review the need or potential solutions. In the event a new model is required, the Transmission Owner shall provide the model required with the information for the relevant phase of the M-3 Process so that the needs or solutions information and the appropriate model can be made available to stakeholders. If the required modeling information is not available, the slides associated with the model which is unavailable will not be posted for review in the relevant M-3 Process stage until the model is made available for the stakeholders.

2. Review of System Needs

No fewer than 25 days after the Assumptions Meeting, each TEAC and Subregional RTEP Committee shall schedule and facilitate a minimum of one meeting per planning cycle to review the system needs, if any, that may drive the need for a Supplemental Project.

Each Transmission Owner or stakeholder that has identified one or more needs will review the identified system needs and the drivers of those needs, based on the application of the Transmission Owner’s criteria, assumptions, and models that has been previously presented. Any references to contingencies in the presentation of needs shall reference the PJM RTEP contingency unless the contingency is not a PJM RTEP contingency. If the contingency is not a PJM RTEP contingency, the Transmission Owner or stakeholder shall provide the full contingency description in the needs presented to the stakeholders. PJM will not post materials associated with any needs for which the required case and necessary file information is not provided (subsystem, monitoring, contingency).

In the event PJM notifies a Transmission Owner that PJM has determined that a baseline project PJM has identified in the RTEP process may eliminate the need the Transmission
**Guidelines for Attachment M-3 Process**

Owner had identified for a Supplemental Project, and for which the Transmission Owner has not yet begun development of a solution, the Transmission Owner may elect to present its analysis of the need again, taking into account the baseline project, at a Needs Meeting. In that event, the documentation the Transmission Owner provides to support its identification of the need must satisfy the requirements of Attachment M-3. If the Transmission Owner determines that the system need still exists and it has already identified a solution to the need through the M-3 Process, the Transmission Owner is not required to present the solution again at a Solutions Meeting and may include a Supplemental Project to satisfy the need in the Local Plan it submits to PJM.

The Transmission Owners and stakeholders shall target to provide the identified needs to PJM 15 days prior to the scheduled Needs Meeting to allow PJM to post the materials at least 10 days in advance of the Needs Meeting.

Stakeholders may provide comments concerning the needs presented at the Needs Meeting or through the Planning Community. For stakeholder comments submitted through the Planning Community, PJM will provide this information to the Transmission Owner for consideration prior to, at, or following the Needs Meeting. The Transmission Owner shall review and consider comments that are received no later than 10 days following the Needs Meeting and may respond or provide feedback as appropriate.

3. **Review of Potential Solutions**

No fewer than 25 days after the Needs Meeting, each TEAC and Subregional RTEP Committee shall schedule and facilitate a minimum of one meeting per planning cycle to review potential solutions for the identified needs.

The Transmission Owners and stakeholders shall target to provide the potential solutions to PJM 15 days prior to the scheduled Solutions Meeting to allow PJM to post the materials at least 10 days in advance of the Solutions Meeting. Included in these submissions of the solutions shall be the modeling and contingency file changes which can be used to model the potential solution. In the event the modeling required to represent the relevant solution(s) is not provided, the solutions will not be presented to
the relevant committee until the modeling is available for stakeholder review.

Stakeholders may provide comments on the potential solutions at the Solutions Meeting or through the Planning Community. For stakeholder comments submitted through the Planning Community, PJM will provide this information to the Transmission Owner for consideration either prior to or following the Solutions Meeting. The Transmission Owner shall review and consider comments that are received no later than 10 days following the Solutions Meeting and may respond or provide feedback as appropriate.

4. Finalization of Submittal of Supplemental Projects for Inclusion in the Local Plan

a. Finalization of Supplemental Projects for Inclusion in the Local Plan

Each Transmission Owner will finalize the Supplemental Projects it selects as solutions to the identified needs and provide to PJM those Supplemental Projects for inclusion in its Local Plan. Included in this submission shall be a slide providing information describing the Supplemental Project and reference the original indicated need for each Supplemental Project. Note that multiple needs may be satisfied by a single Supplemental Project. PJM shall complete the required Do No Harm studies prior to posting the selected solution which has been designated as the Supplemental Project. In the event that a Supplemental Project must be modified in order to mitigate any identified issues, PJM shall recommend to the Transmission Owner whether the modified solution should be reposted as a revised solution in a new Solutions Meeting.

The slides showing the Supplemental Project(s) to be included in the Local Plan will be posted for stakeholder review on the relevant TEAC or Subregional RTEP Committee web page(s). PJM shall notice the relevant committees regarding the posting of these Supplemental Projects through the applicable email list through PJM.com for those committees. All stakeholders must be subscribed to the appropriate committee email list to receive these notifications.

Stakeholders may provide comments on the selected Supplemental Projects through the Planning Community. PJM will provide this information to the Transmission Owner for
Guidelines for Attachment M-3 Process

its consideration. The Transmission Owner shall review and consider comments that are received no later than 10 days after the Supplemental Project(s) selection has been indicated through the posting of the selected project(s) on the relevant committee page.

b. Submission of Supplemental Projects for Inclusion in the Local Plan

The Transmission Owner shall target to submit the Supplemental Project(s) for inclusion in the Local Plan, and subsequently, integration into the Regional Transmission Expansion Plan, no later than July 31 of each year in order to facilitate the subsequent year RTEP case building activities. The Transmission Owner may submit Supplemental Project(s) for inclusion in the Local Plan at any point which is no less than 10 days after the Supplemental Project(s) are posted under step 4(a) above. The Transmission Owners may also identify system needs and/or Supplemental Projects and request that PJM include additional Supplemental Projects in the Local Plan after July 31 of each year so that they might also be included in the subsequent year RTEP case if the submission of those projects will not disrupt the case building activities or analysis underway which is using that RTEP case.
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APPENDICES

APPENDIX 1 – Guideline Applicable TOs

The PJM Transmission Owners listed below and the PJM Transmission Owners affiliated with the service companies and holding companies listed below employ these Guidelines in their implementation of PJM OATT Attachment M-3.

American Electric Power Service Company
The Dayton Power and Light Company
Virginia Electric and Power Company d/b/a Dominion Energy Virginia
Duquesne Light Company
East Kentucky Power Cooperative, Inc.
Exelon Corporation
FirstEnergy Service Company
PPL Electric Utilities Corporation
Public Service Electric and Gas Company
Rockland Electric Company
### Appendix 2 Standard Slide Elements

<table>
<thead>
<tr>
<th>#</th>
<th>Requirement</th>
<th>Notes</th>
<th>Needs Meeting</th>
<th>Solutions Meeting</th>
<th>Local Plan Submittal</th>
<th>Who</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Need Number</td>
<td>Assigned by TO – E.g., PL (PPL-2018-0001) Co. abbreviation, calendar year, sequential number for that year</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>TO</td>
</tr>
<tr>
<td>2</td>
<td>Process Stage and Date</td>
<td>Identify the stage of the process; Needs, Solution or Local Plan and the date of the associated review or plan submittal</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>TO</td>
</tr>
<tr>
<td>3</td>
<td>Process Chronology (Previous Presentations)</td>
<td>Additive, includes all review history - previous dates for Needs meeting(s), Solutions meeting (s), Local Plan submittal(s) occurred</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>TO</td>
</tr>
<tr>
<td>4</td>
<td>Footer Note (as required)</td>
<td>Slides may be updated with information in response to relevant questions</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>TO</td>
</tr>
<tr>
<td>5</td>
<td>Supplemental Project Driver(s)</td>
<td>Descriptions from one or more drivers</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>TO</td>
</tr>
<tr>
<td>6</td>
<td>Specific Assumption References</td>
<td>Information that ties back to information from assumptions meeting</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>TO</td>
</tr>
<tr>
<td>7</td>
<td>Model</td>
<td>Model required to represent the current topology of the systems which might be necessary for modeling the needs. Model updated at the Solutions meeting if necessary to model the needs and solution.</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>TO</td>
</tr>
</tbody>
</table>
## Appendix 2 Standard Slide Elements

<table>
<thead>
<tr>
<th>#</th>
<th>Requirement</th>
<th>Notes</th>
<th>Needs Meeting</th>
<th>Solutions Meeting</th>
<th>Local Plan Submittal</th>
<th>Who</th>
</tr>
</thead>
<tbody>
<tr>
<td>8</td>
<td>Problem Statement or Specific Need Detail</td>
<td>Describe the facilities and associated problems and relevant supporting information</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>TO</td>
</tr>
<tr>
<td>9</td>
<td>Geographic Locating Map</td>
<td>Locate the geographic location of the transmission facilities (Transmission Owner to supply map if identified system elements are not available in PJM map system)</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>TO/PJM</td>
</tr>
</tbody>
</table>
| 10 | Potential Solution                   | Description of the Potential Solution:  
- Name of project (station name, endpoints of line, etc.)  
- Circuit MVA rating before and after | X            |                   |                      | TO    |
| 11 | Estimated Project Cost               | Project cost estimate for proposed or selected solution              | X            | X                 | TO                   |
| 12 | Projected IS Date                    | Expected/projected in-service date of the proposed solution          | X            | X                 | TO                   |
| 13 | Connection Diagram                   | Provide system diagram to visualize solution on the system            | X            | X                 | TO                   |
| 14 | Alternatives Considered              | Description of each solution considered by the TO including cost information, if relevant | X            |                   | TO                   |
# Appendix 2 Standard Slide Elements

<table>
<thead>
<tr>
<th>#</th>
<th>Requirement</th>
<th>Notes</th>
<th>Needs Meeting</th>
<th>Solutions Meeting</th>
<th>Local Plan Submittal</th>
<th>Who</th>
</tr>
</thead>
<tbody>
<tr>
<td>15</td>
<td>Selected Solution</td>
<td>Description of the Selected Solution: as originally presented, or subsequently modified</td>
<td></td>
<td></td>
<td>X</td>
<td>TO</td>
</tr>
<tr>
<td>16</td>
<td>Project Status</td>
<td>Current Status of Project (Conceptual, Engineering, Construction, In service, other)</td>
<td></td>
<td></td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>17</td>
<td>Supplemental Project ID</td>
<td>Assigned by PJM upon receipt of the selected solution from the TO, after the Solutions Meeting and 10-day comment period, Do No Harm testing is completed, and before the Local Plan is posted</td>
<td></td>
<td></td>
<td>X</td>
<td>PJM</td>
</tr>
<tr>
<td>18</td>
<td>Ancillary Benefits</td>
<td>Description of system benefits provided by the solution which exceed requirements of the stated needs</td>
<td></td>
<td></td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>
### Guidelines for Attachment M-3 Process

#### Appendix 3 M-3 Process Flow Charts -- Assumptions

<table>
<thead>
<tr>
<th>Activity</th>
<th>Timing</th>
<th>Who</th>
<th>How</th>
</tr>
</thead>
<tbody>
<tr>
<td>Posting of Annual Assumptions</td>
<td>Meeting date (others may occur throughout the year as needed)</td>
<td>PJM</td>
<td>Web posting on SRRTEP web pages</td>
</tr>
<tr>
<td></td>
<td>November 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Submittal of materials for Assumptions Meeting</td>
<td>5 days before of posting date 25 days before Assumptions Meeting</td>
<td>TO</td>
<td>E-mail to PJM</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Posting of TO Assumptions meeting</td>
<td>20 days before Assumptions Meeting</td>
<td>PJM</td>
<td>Web posting of meeting materials</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Assumptions Meeting</td>
<td>-</td>
<td>All</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Stakeholder comments</td>
<td>10 days after Assumptions Meeting</td>
<td>Stakeholders</td>
<td>Planning Community</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TOs review and consider stakeholder comments</td>
<td>10 days after comments received</td>
<td>TOs</td>
<td>Based upon comments, TO may add information in revised slides sent to PJM and PJM re-posts</td>
</tr>
</tbody>
</table>
## Appendix 3 M-3 Process Flow Charts -- Needs

<table>
<thead>
<tr>
<th>Activity</th>
<th>Timing</th>
<th>Who</th>
<th>How</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Send Needs Meeting slides to PJM</td>
<td>15 days before Needs Meeting</td>
<td>TO / Stakeholders</td>
<td>E-mail to PJM</td>
</tr>
<tr>
<td>2 Posts Needs Meeting slides</td>
<td>10 days before Needs Meeting</td>
<td>PJM</td>
<td>Web posting of meeting materials</td>
</tr>
<tr>
<td>3 Needs Meeting</td>
<td>-</td>
<td>All</td>
<td>-</td>
</tr>
<tr>
<td>4 Stakeholder comments</td>
<td>10 days after Needs Meeting</td>
<td>Stakeholders</td>
<td>Planning Community</td>
</tr>
<tr>
<td>5 Review and consider stakeholder comments</td>
<td>10 days after comments received</td>
<td>TOs</td>
<td>Based upon comments, TO may add information in revised slides sent to PJM and PJM re-posts</td>
</tr>
</tbody>
</table>
## Appendix 3 M-3 Process Flow Charts -- Solutions

<table>
<thead>
<tr>
<th>Activity</th>
<th>Timing</th>
<th>Who</th>
<th>How</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Send Solutions Meeting slides and, for proposed solution, modeling information (contingency files, IDEV, etc.) to PJM</td>
<td>15 days before Solutions Meeting</td>
<td>TOs and Stakeholders</td>
<td>E-mail to PJM</td>
</tr>
<tr>
<td>2 Finalizes Solutions Meeting slides (i.e., ads diagrams, etc.) as required</td>
<td>Upon receipt of slides, prior to posting date</td>
<td>PJM</td>
<td>Revises supplied slides</td>
</tr>
<tr>
<td>3 Post Solutions Meeting slides</td>
<td>10 days before Solutions Meeting</td>
<td>PJM</td>
<td>Web posting of meeting materials</td>
</tr>
<tr>
<td>4 Solutions Meeting</td>
<td>-</td>
<td>All</td>
<td>-</td>
</tr>
<tr>
<td>5 Stakeholder comments</td>
<td>10 days after Solutions Meeting</td>
<td>Stakeholders</td>
<td>Planning Community</td>
</tr>
<tr>
<td>6 Review and consider stakeholder comments</td>
<td>10 days after comments received</td>
<td>TOs</td>
<td>Based upon comments, TO may add information in revised slides sent to PJM and PJM re-posts</td>
</tr>
<tr>
<td>7 No Harm analysis for proposed solution</td>
<td>After comments received for Solutions Meeting</td>
<td>PJM</td>
<td>Web posting indicating status on Solutions Meeting slide</td>
</tr>
</tbody>
</table>
### Guidelines for Attachment M-3 Process

### Appendix 3 M-3 Process Flow Charts -- Submission of Supplemental Project(s) for Inclusion in the Local Plan

<table>
<thead>
<tr>
<th>Activity</th>
<th>Timing</th>
<th>Day</th>
<th>Who</th>
<th>How</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Send Local Plan slides (including Comment Deadline) with selected solutions and updated modeling information (if necessary) to PJM</td>
<td>TO discretion</td>
<td></td>
<td>TOs</td>
<td>E-mail to PJM</td>
</tr>
<tr>
<td>2 Finalize Local Plan slides if necessary (i.e., updated maps, etc.)</td>
<td>Upon receipt of slides, prior to posting</td>
<td></td>
<td>PJM</td>
<td></td>
</tr>
<tr>
<td>3 Local Plan submission posted</td>
<td>5 days after receipt of slides</td>
<td></td>
<td>PJM</td>
<td>Web posting</td>
</tr>
<tr>
<td>4 Stakeholder comments</td>
<td>At least 10 days before Local Plan submittal</td>
<td>-10</td>
<td>Stakeholders</td>
<td>Planning Community</td>
</tr>
<tr>
<td>5 Review and consider stakeholder comments</td>
<td>Until Local Plan submittal</td>
<td>&lt;10</td>
<td>TOs</td>
<td>Based upon comments, TO may add information in revised slides sent to PJM and PJM re-posts</td>
</tr>
</tbody>
</table>

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### Guidelines for Attachment M-3 Process

### Appendix 3 M-3 Process Flow Charts -- Local Plan Submittal (Finalized)

<table>
<thead>
<tr>
<th>Activity</th>
<th>Timing</th>
<th>Day</th>
<th>Who</th>
<th>How</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Local Plan submitted for Integration into the RTEP</td>
<td>10 days after Comment Deadline</td>
<td>0</td>
<td>TOs</td>
<td>E-mail final Local Plan slides to PJM</td>
</tr>
<tr>
<td>2 Post final Local Plan slides</td>
<td>5 days after receipt of slides</td>
<td>+5</td>
<td>PJM</td>
<td>Web posting</td>
</tr>
</tbody>
</table>
Guidelines for Attachment M-3 Process

Appendix 4 M-3 Process Flow

Assumptions Meeting

Transmission Owners provide Assumptions to PJM

Includes:
1. Criteria
2. Assumptions
3. Model(s)

PJM review Assumptions
(Target 5 days for review to ensure appropriate materials are being posted)

PJM Post Assumptions

Minimum 20 Days

Assumptions Meeting

Stakeholders provide comments within 10 Days

Needs Meeting

Transmission Owners provide Needs to PJM - No fewer than 25 days after Assumptions Meeting

Includes:
1. All elements identified for Needs slides
2. All required power system modeling information in support of needs identified on slide

PJM review Needs
(Target 5 days for review to ensure slides contain all required elements)

PJM Post Needs

Minimum 10 Days

Needs Meeting

Stakeholders provide comments within 10 Days
Guidelines for Attachment M-3 Process

Appendix 4 M-3 Process Flow

Solutions Meeting

Transmission Owners provide Solutions to PJM - No fewer than 25 days after Needs Meeting.
Includes:
1. All elements identified for Solutions slides
2. All required modeling to represent solution(s)

PJM review Solutions (Target 5 days for review to ensure slides contain all required elements)

PJM Post Solutions

Minimum 10 Days

Solutions Meeting

Stakeholders provide comments within 10 Days

Finalize Selection of Supplemental Projects for Inclusion in the Local Plan

Transmission Owners provide Supplemental Project (selected solution) modeling
Includes:
All modeling required for:
1. Load Flow
2. Short Circuit
3. Stability
4. Contingencies
(INCLUDING SINGLE LINE DIAGRAM TO VERIFY CONTINGENCIES)

PJM review selected solutions (Target 5 days for review to ensure slides contain all required elements)
Includes:
1. All elements identified for Local Plan Submittal slides

PJM Complete do no harm testing

PJM Post selected solutions
Note: PJM will not post selected solutions if do no harm testing is not completed

Stakeholders provide comments within 10 Days
Guidelines for Attachment M-3 Process

Appendix 4 M-3 Process Flow

Submission of Supplemental Projects for Inclusion in the Local Plan

Transmission Owners review and consider all comments received before Local Plan is submitted for integration into the RTEP.

Transmission Owners submit Supplemental Projects for inclusion in Local Plan.

PJM review Transmission Owners submittal of Supplemental Projects (Target 5 days for review of slides).

PJM Post Transmission Owners submittal of Supplemental Projects for inclusion in Local Plan.
Guidelines for Attachment M-3 Process

Appendix 5 Attachment M-3 Process Presentation Slide Templates

<Committee> Committee
<TO> Supplemental Projects

<Month Day, Year>
Appendix 5 Attachment M-3 Process Presentation Slide Templates

Needs
Stakeholders must submit any comments within 10 days of this meeting in order to provide time necessary to consider these comments prior to the next phase of the M-3 process.
Guidelines for Attachment M-3 Process

Appendix 5 Attachment M-3 Process Presentation Slide Templates

- Need Number: <need ID>
- Process Stage: Need Meeting <date>
- Project Driver: <driver>
- Specific Assumption Reference: <assumption>
- Problem Statement: <description>

Geographic Map:
Include all facilities mentioned on slide, small locator map and a legend.

<TO> Transmission Zone M-3 Process <locale>
Guidelines for Attachment M-3 Process

Appendix 5 Attachment M-3 Process Presentation Slide Templates

Solutions

Stakeholders must submit any comments within 10 days of this meeting in order to provide time necessary to consider these comments prior to the next phase of the M-3 process.
Guidelines for Attachment M-3 Process

Appendix 5 Attachment M-3 Process Presentation Slide Templates

Need Number: <need ID>
Process Stage: Solutions Meeting <date>
Previously Presented:
<stage> <date>
Project Driver:
<driver>
Specific Assumption Reference:
<reference>
Problem Statement:
<description>

<TO> Transmission Zone M-3 Process
<project name>

Geographic Map:
Include all facilities mentioned on slide, small locator map and a legend.
Guidelines for Attachment M-3 Process

Appendix 5 Attachment M-3 Process Presentation Slide Templates
Guidelines for Attachment M-3 Process

Appendix 5 Attachment M-3 Process Presentation Slide Templates

Submission of Supplemental Projects for Inclusion in the Local Plan
Guidelines for Attachment M-3 Process

Appendix 5 Attachment M-3 Process Presentation Slide Templates
Guidelines for Attachment M-3 Process

Appendix 5 Attachment M-3 Process Presentation Slide Templates

![Bubble Diagram](image-url)