



January 18, 2006

**VIA MESSENGER**

The Honorable Magalie Roman Salas  
Secretary  
Federal Energy Regulatory Commission  
888 First Street, NE  
Washington, DC 20426

Re: ISO New England Inc., Docket Nos. RM05-04-000; RM05-04-001; and ER06-  
\_\_\_\_\_-000  
Compliance Report of ISO New England Inc.

Dear Secretary Salas:

Pursuant to Rule 1907 of the Rules of Practice and Procedure of the Federal Energy Regulatory Commission (the "Commission"),<sup>1</sup> 18 C.F.R. § 385.1907 (2005), ISO New England Inc. (the "ISO"), the New England Participating Transmission Owners ("PTOs") and the New England Power Pool ("NEPOOL") (collectively, the "Filing Parties")<sup>2</sup> hereby file an original and five copies of this transmittal letter and revised tariff sheets ("Sheets") of the ISO OATT<sup>3</sup> to comply with the requirements of the Commission's June 2, 2005 order issued in Docket No.

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<sup>1</sup> Capitalized terms used but not defined in this filing are intended to have the meanings given to such terms in the ISO New England Inc. Transmission, Markets and Services Tariff ("ISO Tariff"), including the ISO Open Access Transmission Tariff ("ISO OATT").

<sup>2</sup> The Filing Parties note that the rights under Section 205 of the Federal Power Act to modify the *pro forma* generator interconnections procedures and generator interconnection agreements under the ISO OATT are allocated between the ISO and the PTOs in accordance with Sections 2.05 and 2.04 of the Transmission Operating Agreement ("TOA"). NEPOOL, the principal stakeholder organization for the Regional Transmission Organization in New England ("RTO"), is joining to reflect the support of the NEPOOL Transmission Committee for the instant compliance filing.

<sup>3</sup> Available at [http://www.iso-ne.com/regulatory/tariff/sect\\_2/index.html](http://www.iso-ne.com/regulatory/tariff/sect_2/index.html). The ISO OATT is Section II of the ISO New England Inc. Transmission, Markets and Services Tariff ("ISO Tariff"). The ISO Tariff is available at [www.iso-ne.com/regulatory/tariff/index.html](http://www.iso-ne.com/regulatory/tariff/index.html).

RM05-4-000, 111 FERC ¶ 61,353 (2005) (“Order No. 661”), as clarified and modified by Order No. 661-A, issued on December 12, 2005 in Docket No. RM05-4-001, 113 FERC ¶ 61,254 (2005) (collectively the “Orders”).

The Orders amended Commission regulations to require public utilities to append to their standard large generator interconnection procedures and large generator interconnection agreements in their open access transmission tariffs (“OATTs”) standard procedures and technical requirements for the interconnection of large wind generation. The standard large generator interconnection procedures and agreements are presently set forth in Schedule 22 of the ISO OATT (“Schedule 22”).

The Filing Parties include herein the Sheets reflecting the appendices pertaining to the standard large generator interconnection procedures and agreements for the interconnection of large wind generation as required by the Orders (Attachment 1 hereto). This filing also includes a blacklined version of these appendices marked to show the changes from the language included in the Orders (Attachment 3 hereto).

The Filing Parties request that the Commission accept the Sheets for filing and make them effective on March 20, 2006.

## **I. Background**

Initially, Schedule 22 was filed by NEPOOL as an amendment to the New England regional tariff on January 20, 2004 in response to Order No. 2003 (the “Order 2003 Amendments”).<sup>4</sup> As initially filed, Schedule 22 applied to the regional transmission system (the “Pool Transmission Facilities” or “PTF”) and reflected a number of regional variations from the *pro forma* Large Generator Interconnection Procedures (“LGIP”) and Large Generator Interconnection Agreement (“LGIA”). Concurrently with the initial NEPOOL filing of Schedule 22, the New England Transmission Owners filed an LGIP and LGIA applicable to their local transmission systems (the “Non-PTF”). The Non-PTF filing also contained a number of proposed variations from the *pro forma* LGIP and LGIA.

By order dated November 8, 2004 (the “November 8 Order”) the Commission accepted NEPOOL’s Schedule 22, including almost all of the proposed regional variations.<sup>5</sup> The

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<sup>4</sup> *Standardization of Generator Interconnection Agreements and Procedures*, Order No. 2003, 68 FR 49845 (Aug. 19, 2003), FERC Stats. & Regs. ¶ 31,146 (2003) (Order No. 2003), *order on reh'g*, Order No. 2003-A, 69 FR 15932 (Mar. 26, 2004), FERC Stats. & Regs. ¶ 31,160 (2004) (Order No. 2003-A), *order on reh'g*, Order No. 2003-B, 70 FR 265 (Jan. 4, 2005), FERC Stats. & Regs. ¶ 31,171 (2005), *reh'g pending* (Order No. 2003-B).

<sup>5</sup> *See New England Power Pool*, 109 FERC ¶ 61,155 (2004); *see also id.* at PP 29-35 (rejecting several proposed variations from the *pro forma*, without prejudice, pending further explanation from the Filing Parties as to the basis for those variations).

Commission accepted these variations under the Commission's independent entity standard, because of ISO's administrative control over the process for interconnecting generators to the PTF. A handful of the variations that were not accepted in the November 8 Order were further justified or modified in a subsequent filing and accepted by the Commission.<sup>6</sup> The November 8 Order also rejected the *pro forma* variations proposed in the Non-PTF filing on the basis that the process for interconnections to the Non-PTF was not yet under the administrative control of an independent entity.

On January 28, 2005, the ISO and the New England Transmission Owners made another filing of the LGIP and LGIA in response to the November 8, 2005 Order as well as Order Nos. 2003-A and 2003-B. This filing, which was made after the final formation of the RTO for New England and in anticipation of its implementation on February 1, 2005, reconciled the treatment of PTF and Non-PTF for purposes of generator interconnections and made clear that an independent entity – the ISO – had administrative control over all of the New England transmission facilities for this purpose. In its March 24 Order the Commission accepted the January 28, 2005 filing, including all of the rules contained in Schedule 22 of the ISO OATT for large generator interconnections in New England.

On June 2, 2005, the Commission issued Order No. 661 to require public utilities to append to their standard large generator interconnection procedures and large generator interconnection agreements in their OATTs standard procedures and technical requirements for the interconnection of large wind generation. On December 12, 2005, the Commission issued Order No. 661-A to clarify and modify Order No. 661.

The Sheets attached hereto as Attachment 1 propose to incorporate the language mandated by the Orders into Schedule 22 of the ISO OATT. The Sheets propose to amend the LGIP by adding an Appendix 7 entitled "Interconnection Procedures For A Wind Generating Plant," and also propose to amend the LGIA by adding an Appendix G also entitled "Interconnection Procedures For A Wind Generating Plant." The Sheets contain language changes that are non-material and designed to ensure that the terminology in the appendices mandated by the Orders is consistent with terms defined in the body of Schedule 22.

The Sheets propose changes that were reviewed within the Participants Processes set forth in the Participants Agreement. The changes included with this filing, which reflect the guidance and direction of Order No. 661-A, were ultimately considered by the Participants Committee in draft from at its January 6, 2006 meeting. The Participants Committee unanimously supported a response to the Orders that includes the changes proposed herein, but

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<sup>6</sup> On January 18, 2005, NEPOOL made a compliance filing responding to the November 8 Order. Also on January 18, 2005, NEPOOL re-filed some of its proposed variations that were rejected in the November 8 Order, *see id.* at PP 29-35, and per the November 8 Order, provided additional explanation for those variations. The Commission accepted these filings in its order dated March 24, 2005 (the "March 24 Order"). *ISO New England, et al.*, 110 FERC ¶ 61,335 (2005).

subject to a final review by the Transmission Committee. At its January 12, 2006 meeting, the Transmission Committee unanimously supported the changes included with this filing.<sup>7</sup>

## **II. Statement of Issue**

Whether the Commission should accept the Sheets filed, including the changes made to the language mandated by the Orders, for the sake of clarity and consistency. In support, the Filing Parties rely on Order No. 661, Order No. 661-A, and 18 C.F.R. § 385.1907 (2005).

## **III. Discussion**

The changes to the language included in the Orders are designed to make the defined terminology in the appendices mandated by the Orders consistent with the body of Schedule 22 and will not frustrate the purposes of the Orders.

These changes include the following:

- The ISO OATT uses the terminology “System Operator,” “Interconnecting Transmission Owner,” and “Local Control Center”<sup>8</sup> instead of “Transmission Provider” depending on the context, and the Sheets attempt to use the same terminology for the sake of consistency.
- Also, the ISO OATT uses the terminology “Interconnection System Impact Study”<sup>9</sup> instead of “System Impact Study” and the Sheets attempt to use the same terminology also for the sake of consistency.
- The Sheets use the terminology “wind generator” instead of “generator,” and “wind generating plant” instead of “wind plant” simply for the sake of clarity.
- The Sheets designate the required appendix to the LGIP as “Appendix 7” instead of “Appendix G” because the current appendices to the LGIP are numbered 1 through 6.<sup>10</sup>

The other changes are self-explanatory and equally non-material.

## **IV. Documents Included With This Filing**

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<sup>7</sup> The motion at the Transmission Committee to support the proposed changes was unanimously passed, with the Publicly Owned Entity Sector absent for that vote, and no Participants registering an abstention.

<sup>8</sup> See *e.g.*, ISO OATT Sections 2.2, 3.3.1, 3.4, 3.5.

<sup>9</sup> See *e.g.*, ISO OATT Section 7.

<sup>10</sup> See ISO OATT, APPENDICES TO LGIA, Original Sheet No. 5335.

In addition to this filing letter, the following documents are included in this filing:

1. Sheets reflecting the appendices pertaining to the standard large generator interconnection procedures and agreements for the interconnection of large wind generation as required by the Orders. (Attachment 1 hereto).
2. Blacklines showing changes to the current version of the Tariff that are necessitated by the inclusion of the appendices mandated by the Orders (*e.g.*, table of contents). (Attachment 2 hereto).<sup>11</sup>
3. Blacklined version of the appendices mandated by the Orders marked to show the changes from the *pro forma* language included in the Commission's Orders. (Attachment 3 hereto).
4. List of NEPOOL Participants, Non-Participant Transmission Customers and New England state regulatory officials that are being served with a copy of this filing. (Attachment 4 hereto).

## **V. Conclusion**

The language changes proposed herein result in non-material modifications to the language in the Commission's Orders and is consistent with the language changes already approved by the Commission as part of the Order 2003 Amendments. As a result, the language proposed in the attached appendices accurately reflects the purposes of the Orders regarding LGIP and LGIA and also accurately reflects the structure and terminology of the ISO OATT and the ISO Tariff. For the reasons detailed above, the Filing Parties submit that the Sheets as filed comply with the Orders and should be accepted.

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<sup>11</sup> Attachment 2 includes only those tariff sheets currently on file with the Commission that this filing proposes to change. The new tariff sheets this filing proposes to create (*i.e.*, the "Original" sheets included in Attachment 1) are not included with the blacklined sheets in Attachment 2.

Correspondence and communications regarding this filing should be addressed to the undersigned for the Filing Parties as follows:

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Please acknowledge receipt of the foregoing by date-stamping the enclosed extra copies of this filing and returning them to the courier delivering this filing.

Respectfully submitted,

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Committee

January 18, 2006

**ATTACHMENT 1**

APPENDIX 2 TO LGIP INTERCONNECTION FEASIBILITY STUDY AGREEMENT.....	5219
APPENDIX 3 TO LGIP INTERCONNECTION SYSTEM IMPACT STUDY AGREEMENT .....	5228
APPENDIX 4 TO LGIP INTERCONNECTION FACILITY STUDY AGREEMENT.....	5238
APPENDIX 5 TO LGIP OPTIONAL INTERCONNECTION STUDY AGREEMENT .....	5249
APPENDIX 6 TO LGIP STANDARD LARGE GENERATOR INTERCONNECTION AGREEMENT .....	5258
APPENDIX 7 TO LGIP INTERCONNECTION PROCEDURES FOR A WIND GENERATING PLANT.....	5348

## **APPENDICES TO LGIA**

- Appendix A Interconnection Facilities, Network Upgrades and Distribution Upgrades
- Appendix B Milestones
- Appendix C Interconnection Details
- Appendix D Security Arrangements Details
- Appendix E Commercial Operation Date
- Appendix F Addresses for Delivery of Notices and Billings
- Appendix G Interconnection Requirements for a Wind Generating Plant

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## **APPENDIX G TO LGIA**

### **Interconnection Requirements For A Wind Generating Plant**

Appendix G sets forth requirements and provisions specific to a wind generating plant. All other requirements of this LGIA continue to apply to wind generating plant interconnections.

#### **A. Technical Standards Applicable to a Wind Generating Plant**

##### **i. Low Voltage Ride-Through (LVRT) Capability**

A wind generating plant shall be able to remain online during voltage disturbances up to the time periods and associated voltage levels set forth in the standard below. The LVRT standard provides for a transition period standard and a post-transition period standard.

##### **Transition Period LVRT Standard**

The transition period standard applies to wind generating plants subject to FERC Order 661 that have either: (i) interconnection agreements signed and filed with the Commission, filed with the Commission in unexecuted form, or filed with the Commission as non-conforming agreements between January 1, 2006 and December 31, 2006, with a scheduled in-service date no later than December 31, 2007, or (ii) wind generating turbines subject to a wind turbine procurement contract executed prior to December 31, 2005, for delivery through 2007.

1. Wind generating plants are required to remain in-service during three-phase faults with normal clearing (which is a time period of approximately 4 – 9 cycles) and single line to ground faults with delayed clearing, and subsequent post-fault voltage recovery to prefault voltage unless clearing the fault effectively disconnects the generator from the system. The clearing time requirement for a three-phase fault will be specific to the wind generating plant substation location, as determined by and documented by the System Operator and Interconnecting Transmission Owner. The maximum clearing time the wind generating plant shall be required to withstand for a three-phase fault shall be 9 cycles at a voltage as low as 0.15 p.u., as measured at the high side of the wind generating plant step-up transformer (i.e. the transformer that steps the voltage up to the transmission interconnection voltage or “GSU”), after which, if the fault remains following the location-specific normal clearing time for three-phase faults, the wind generating plant may disconnect from the transmission system.
2. This requirement does not apply to faults that would occur between the wind generator terminals and the high side of the GSU or to faults that would result in a voltage lower than 0.15 per unit on the high side of the GSU serving the facility.
3. Wind generating plants may be tripped after the fault period if this action is intended as part of a special protection system.
4. Wind generating plants may meet the LVRT requirements of this standard by the performance of the generators or by installing additional equipment (e.g., Static VAR Compensator, etc.) within the wind generating plant or by a combination of generator performance and additional equipment.
5. Existing individual wind generator units that are, or have been, interconnected to the network at the same location at the effective date of the Appendix G LVRT.

Standard are exempt from meeting the Appendix G LVRT Standard for the remaining life of the existing generation equipment. Existing individual wind generator units that are replaced are required to meet the Appendix G LVRT Standard.

**Post-transition Period LVRT Standard**

All wind generating plants subject to FERC Order No. 661 and not covered by the transition period described above must meet the following requirements:

1. Wind generating plants are required to remain in-service during three-phase faults with normal clearing (which is a time period of approximately 4 – 9 cycles) and single line to ground faults with delayed clearing, and subsequent post-fault voltage recovery to prefault voltage unless clearing the fault effectively disconnects the generator from the system. The clearing time requirement for a three-phase fault will be specific to the wind generating plant substation location, as determined by and documented by the System Operator and Interconnecting Transmission Owner. The maximum clearing time the wind generating plant shall be required to withstand for a three-phase fault shall be 9 cycles after which, if the fault remains following the location-specific normal clearing time for three-phase faults, the wind generating plant may disconnect from the transmission system. A wind generating plant shall remain interconnected during such a fault on the transmission system for a voltage level as low as zero volts, as measured at the high voltage side of the wind GSU.
2. This requirement does not apply to faults that would occur between the wind generator terminals and the high side of the GSU.

3. Wind generating plants may be tripped after the fault period if this action is intended as part of a special protection system.
4. Wind generating plants may meet the LVRT requirements of this standard by the performance of the generators or by installing additional equipment (e.g., Static VAR Compensator) within the wind generating plant or by a combination of generator performance and additional equipment.
5. Existing individual wind generator units that are, or have been, interconnected to the network at the same location at the effective date of the Appendix G LVRT Standard are exempt from meeting the Appendix G LVRT Standard for the remaining life of the existing generation equipment. Existing individual wind generator units that are replaced are required to meet the Appendix G LVRT Standard.

**ii. Power Factor Design Criteria (Reactive Power)**

A wind generating plant shall maintain a power factor within the range of 0.95 leading to 0.95 lagging, measured at the Point of Interconnection as defined in this LGIA, if the Interconnection System Impact Study shows that such a requirement is necessary to ensure safety or reliability. The power factor range standard can be met by using, for example, power electronics designed to supply this level of reactive capability (taking into account any limitations due to voltage level, real power output, etc.) or fixed and switched capacitors if agreed to by the System Operator and Interconnecting Transmission Owner, or a combination of the two. The

Interconnection Customer shall not disable power factor equipment while the wind generating plant is in operation. Wind generating plants shall also be able to provide sufficient dynamic voltage support in lieu of the power system stabilizer and automatic voltage regulation at the generator excitation system if the Interconnection System Impact Study shows this to be required for system safety or reliability.

**iii. Supervisory Control and Data Acquisition (SCADA) Capability**

The wind generating plant shall provide SCADA capability to transmit data and receive instructions from the System Operator and Local Control Center to protect system reliability. The System Operator, Interconnecting Transmission Owner and the wind generating plant Interconnection Customer shall determine what SCADA information is essential for the proposed wind generating plant, taking into account the size of the plant and its characteristics, location, and importance in maintaining generation resource adequacy and transmission system reliability in its area.

**APPENDIX 7 TO LGIP  
STANDARD LARGE GENERATOR INTERCONNECTION  
AGREEMENT**

Appendix 7 sets forth procedures specific to a wind generating plant. All other requirements of this LGIP continue to apply to wind generating plant interconnections.

**A. Special Procedures Applicable to Wind Generating Plants**

The wind generating plant Interconnection Customer, in completing the Interconnection Request required by Section 3.3 of this LGIP, may provide to the System Operator a set of preliminary electrical design specifications depicting the wind generating plant as a single equivalent generator. Upon satisfying these and other applicable Interconnection Request conditions, the wind generating plant may enter the queue and receive the base case data as provided for in this LGIP.

No later than six months after submitting an Interconnection Request completed in this manner, the wind generating plant Interconnection Customer must submit completed detailed electrical design specifications and other data (including collector system layout data) needed to allow the System Operator to complete the Interconnection System Impact Study.

Sheet Nos. 5349 through 5399 are reserved for future use.

**ATTACHMENT 2**

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APPENDIX 2 TO LGIP INTERCONNECTION FEASIBILITY STUDY AGREEMENT.....	5219
APPENDIX 3 TO LGIP INTERCONNECTION SYSTEM IMPACT STUDY AGREEMENT .....	5228
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<u>APPENDIX 7 TO LGIP INTERCONNECTION PROCEDURES FOR A WIND GENERATING PLANT.....</u>	<u>5348</u>

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Issued by: Kathleen A. Carrigan,  
Senior Vice President and General Counsel  
Regulatory

Effective: ~~With notice, on or after February 1, 2005~~ March 20, 2006  
Filed to comply with order of the Federal Energy

Issued on: January ~~28, 2005~~ Regulatory 18, 2006 Commission, Docket ~~Nos. RT04-000, et al.,~~ No. RM05-4-000, issued June 2, 2005,  
issued March 24, 2004, 106 FERC ¶ 61,280 (2004)  
111 FERC ¶ 61,353 (2005) and Docket No. RM05-4-001,  
issued December 12, 2005, 113 FERC ¶ 61,254 (2005)

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## APPENDICES TO LGIA

Appendix A Interconnection Facilities, Network Upgrades and Distribution Upgrades

Appendix B Milestones

Appendix C Interconnection Details

Appendix D Security Arrangements Details

Appendix E Commercial Operation Date

Appendix F Addresses for Delivery of Notices and Billings

[Appendix G Interconnection Requirements for a Wind Generating Plant](#)

DMEAST #9430340-v4

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111 FERC ¶ 61,353 (2005) and Docket No. RM05-4-001,  
issued ~~March 24, 2004, 106~~ December 12, 2005, 113 FERC ¶ ~~61,280 (2004)~~ 61,254 (2005)~~

## APPENDIX G TO LGIA

### Interconnection Requirements of Generators Relying on Newer Technologies For A Wind Generating Plant

Appendix G sets forth requirements and provisions specific to a wind generating plant.

All other requirements of this LGIA continue to apply to wind generating plant interconnections.

#### A. Technical Standards Applicable to a Wind Generating Plant

##### i. Low Voltage Ride-Through (LVRT) Capability

A wind generating plant shall be able to remain online during voltage disturbances up to the time periods and associated voltage levels set forth in the standard below.  
The LVRT standard provides for a transition period standard and a post-transition period standard.

#### Transition Period LVRT Standard

The transition period standard applies to wind generating plants subject to FERC Order 661 that have either: (i) interconnection agreements signed and filed with the Commission, filed with the Commission in unexecuted form, or filed with the Commission as non-conforming agreements between January 1, 2006 and December 31, 2006, with a scheduled in-service date no later than December 31, 2007, or (ii) wind generating turbines subject to a wind turbine procurement contract executed prior to December 31, 2005, for delivery through 2007.

**ATTACHMENT 3**

## APPENDIX G

### INTERCONNECTION REQUIREMENTS FOR A WIND GENERATING PLANT

Appendix G sets forth requirements and provisions specific to a wind generating plant. All other requirements of this LGIA continue to apply to wind generating plant interconnections.

#### A. **Technical Standards Applicable to a Wind Generating Plant**

##### i. **Low Voltage Ride-Through (LVRT) Capability**

A wind generating plant shall be able to remain online during voltage disturbances up to the time periods and associated voltage levels set forth in the standard below. The LVRT standard provides for a transition period standard and a post-transition period standard.

#### **Transition Period LVRT Standard**

The transition period standard applies to wind generating plants subject to FERC Order 661 that have either: (i) interconnection agreements signed and filed with the Commission, filed with the Commission in unexecuted form, or filed with the Commission as non-conforming agreements between January 1, 2006 and December 31, 2006, with a scheduled in-service date no later than December 31, 2007, or (ii) wind generating turbines subject to a wind turbine procurement contract executed prior to December 31, 2005, for delivery through 2007.

1. Wind generating plants are required to remain in-service during three-phase faults with normal clearing (which is a time period of approximately 4 – 9 cycles) and single line to ground faults with delayed clearing, and subsequent post-fault voltage recovery to pre-fault voltage unless clearing the fault effectively disconnects the generator from the system. The clearing time requirement for a three-phase fault will be specific to the wind generating plant substation location, as determined by and documented by the [System Operator and](#)

Interconnecting Transmission Owner~~transmission provider~~. The maximum clearing time the wind generating plant shall be required to withstand for a three-phase fault shall be 9 cycles at a voltage as low as 0.15 p.u., as measured at the high side of the wind generating plant step-up transformer (i.e. the transformer that steps the voltage up to the transmission interconnection voltage or “GSU”), after which, if the fault remains following the location-specific normal clearing time for three-phase faults, the wind generating plant may disconnect from the transmission system.

2. This requirement does not apply to faults that would occur between the wind generator terminals and the high side of the GSU or to faults that would result in a voltage lower than 0.15 per unit on the high side of the GSU serving the facility.
3. Wind generating plants may be tripped after the fault period if this action is intended as part of a special protection system.
4. Wind generating plants may meet the LVRT requirements of this standard by the performance of the generators or by installing additional equipment (e.g., Static VAR Compensator, etc.) within the wind generating plant or by a combination of generator performance and additional equipment.
5. Existing individual wind generator units that are, or have been, interconnected to the network at the same location at the effective date of the Appendix G LVRT Standard are exempt from meeting the Appendix G LVRT Standard for the remaining life of the existing generation equipment. Existing individual wind generator units that are replaced are required to meet the Appendix G LVRT Standard.

### **Post-transition Period LVRT Standard**

All wind generating plants subject to FERC Order No. 661 and not covered by the transition period described above must meet the following requirements:

1. Wind generating plants are required to remain in-service during three-phase faults with normal clearing (which is a time period of approximately 4 – 9 cycles) and single line to ground faults with delayed clearing, and subsequent post-fault voltage recovery to pre-fault voltage unless clearing the fault effectively disconnects the generator from the system. The clearing time requirement for a three-phase fault will be specific to the wind generating plant substation location, as determined by and documented by the System Operator and Interconnecting Transmission Owner~~transmission provider~~. The maximum clearing time the wind generating plant shall be required to withstand for a three-phase fault shall be 9 cycles after which, if the fault remains following the location-specific normal clearing time for three-phase faults, the wind generating plant may disconnect from the transmission system. A wind generating plant shall remain interconnected during such a fault on the transmission system for a voltage level as low as zero volts, as measured at the high voltage side of the wind GSU.
2. This requirement does not apply to faults that would occur between the wind generator terminals and the high side of the GSU.
3. Wind generating plants may be tripped after the fault period if this action is intended as part of a special protection system.
4. Wind generating plants may meet the LVRT requirements of this standard by the performance of the generators or by installing additional equipment (e.g., Static VAR Compensator) within the wind generating plant or by a combination of generator performance and additional equipment.

5. Existing individual wind generator units that are, or have been, interconnected to the network at the same location at the effective date of the Appendix G LVRT Standard are exempt from meeting the Appendix G LVRT Standard for the remaining life of the existing generation equipment. Existing individual wind generator units that are replaced are required to meet the Appendix G LVRT Standard.

**ii. Power Factor Design Criteria (Reactive Power)**

A wind generating plant shall maintain a power factor within the range of 0.95 leading to 0.95 lagging, measured at the Point of Interconnection as defined in this LGIA, if the Transmission Provider's Interconnection System Impact Study shows that such a requirement is necessary to ensure safety or reliability. The power factor range standard can be met by using, for example, power electronics designed to supply this level of reactive capability ~~606~~ (taking into account any limitations due to voltage level, real power output, etc.) or fixed and switched capacitors if agreed to by the System Operator and Interconnecting Transmission Owner/Transmission Provider, or a combination of the two. The Interconnection Customer shall not disable power factor equipment while the wind generating plant is in operation. Wind generating plants shall also be able to provide sufficient dynamic voltage support in lieu of the power system stabilizer and automatic voltage regulation at the generator excitation system if the Interconnection System Impact Study shows this to be required for system safety or reliability.

**iii. Supervisory Control and Data Acquisition (SCADA) Capability**

The wind generating plant shall provide SCADA capability to transmit data and receive instructions from the System Operator and Local Control Center/Transmission Provider to protect system reliability. The System Operator, Interconnecting Transmission Owner/Transmission Provider and the wind generating plant Interconnection Customer shall determine what SCADA

information is essential for the proposed wind generating plant, taking into account the size of the plant and its characteristics, location, and importance in maintaining generation resource adequacy and transmission system reliability in its area.

## APPENDIX 7

### INTERCONNECTION PROCEDURES FOR A WIND GENERATING PLANT

Appendix ~~7G~~ sets forth procedures specific to a wind generating plant. All other requirements of this LGIP continue to apply to wind generating plant interconnections.

#### A. **Special Procedures Applicable to Wind ~~Generating Plants~~Generators**

The wind generating plant Interconnection Customer, in completing the Interconnection Request required by ~~Section~~section 3.3 of this LGIP, may provide to the System Operator~~Transmission Provider~~ a set of preliminary electrical design specifications depicting the wind generating plant as a single equivalent generator. Upon satisfying these and other applicable Interconnection Request conditions, the wind generating plant may enter the queue and receive the base case data as provided for in this LGIP.

No later than six months after submitting an Interconnection Request completed in this manner, the wind generating plant Interconnection Customer must submit completed detailed electrical design specifications and other data (including collector system layout data) needed to allow the System Operator~~Transmission Provider~~ to complete the Interconnection System Impact Study.

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The Honorable James Douglas  
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**New England Governors  
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**January 18, 2006**

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