Attachment X – Standard Large Facility Interconnection Procedures (Applicable to Generating Facilities that exceed 20 MWs and to Class Year Transmission Facilities)

30.3 Interconnection Requests

30.3.1 General

A Developer proposing to interconnect a new Large Facility to the New York State Transmission System or to the Distribution System, or proposing to materially increase the capacity of, or make a material modification to the operating characteristics of, an existing Large Facility that is interconnected to the New York State Transmission System or to the Distribution System shall submit to the ISO an Interconnection Request in the form of Appendix 1 to these Large Facility Interconnection Procedures. The requirement to submit an Interconnection Request applies to all Large Facilities seeking evaluation under this Attachment X to the ISO OATT, including (1) material modifications; (2) increases in capacity that results in total output in excess of 20 MW; and (3) Transmission Projects initially evaluated pursuant to Attachment P to the ISO OATT that have submitted a Transmission Interconnection Application and application fee in accordance with Attachment P to the ISO OATT and that elect to transition to the Large Facility Interconnection Procedures in order to request CRIS. An increase in the capacity of an existing Large Facility is a material increase for purposes of this Section 30.3.1 unless the increase (a) is not associated with any equipment changes or is associated with equipment changes determined by the ISO to be non-material; and (b) is an increase in the Large Facility's baseline ERIS level that is equal to or less than ten (10) megawatts or five (5) percent, whichever is greater. For purposes of this Section 30.3.1, the baseline ERIS level of an existing Large Facility is (a) the greater of (i) the existing Large Facility's CRIS level determined as a facility pre-dating Class Year 2007 pursuant to Section 25.9.3.1 of Attachment S of the ISO OATT, if applicable; or (ii) the final maximum summer megawatt electrical output studied for the total facility (including all Generators in a facility comprised of multiple Generators) for ERIS in the ISO's interconnection process for the existing Large Facility; or (b) if neither (a)(i)

nor (a)(ii) are applicable, the baseline ERIS level is the value reflected in the Large Facility's interconnection agreement or other applicable documentation governing the Large Facility's interconnection; however, if the Large Facility has requested a modification to its facility to decrease its size, and such modification has been deemed nonmaterial by the ISO, the decreased MW level will be a cap on its baseline ERIS. If the existing Large Facility is a BTM:NG Resource, the increase in existing capacity will be measured based on the increase from the existing gross capability of the generator to the proposed gross capability of the generator, as modified. If an existing Large Facility comprised of multiple Generators behind a single Point of Injection modifies its Large Facility to become one or more standalone Generators, the total ERIS of the standalone Generator(s) behind the single Point of Injection cannot exceed the Point of Injection limit. Notwithstanding the above, if the existing Large Facility is a temperature sensitive unit, the maximum capacity of which varies based on ambient temperature, the increase in existing capacity will be measured based on the largest increase from the existing capacity to the proposed capacity at the same temperature, i.e., at the same temperature along the maximum megawatt electrical output versus temperature curves.

The Interconnection Request in the form of Appendix 1 to these Large Facility Interconnection Procedures must be accompanied by a non-refundable application fee of $10,000, unless the Large Facility is a Merchant Transmission Facility that was initially evaluated pursuant to Attachment P to the OATT, submitted a Transmission Interconnection Application and application fee in accordance with Attachment P to the OATT, and elects to transition to the Large Facility Interconnection Procedures in order to request CRIS to the extent permitted by Section 22.3.2 of Attachment P to the ISO OATT. The application fee shall be divided equally between the ISO and Connecting Transmission Owner(s). The Developer shall

submit a separate Interconnection Request for each site unless the Large Facility is a proposed Large Facility comprised of multiple Generators behind a single Point of Injection, in which case the Developer ~~may submit separate Interconnection Requests or~~must submit a single Interconnection Request. ~~; provided however, a multi-unit Large Facility can only be evaluated under a single Interconnection Request if~~ The Interconnection Request for a Large Facility comprised of multiple Generators behind a single Point of Injection must be submitted by a ~~(1) the Large Facility is proposed by a~~ single Developer~~; (2) the individual Generators comprising the Large Facility are co-located behind the same Point of Interconnection; and (3) units in the Large Facility propose to interconnect at the same voltage levels (unless, as it proposes to interconnect, the Large Facility includes either (a) a 3-winding transformer with the potential to connect to two different voltage level lines simultaneously; or (b) a combined cycle with a generator turbine and steam turbine connected at two different voltage levels).~~ A Developer may submit multiple Interconnection Requests for a single site only if the proposed Large Facilities are alternatives to each other.

The Developer must submit an application fee and study deposit with each Interconnection Request even when more than one request is submitted for a single site. A proposed Large Generating Facility requesting to evaluate one site at two different voltage levels shall require two Interconnection Requests unless the Large Generating Facility, as it proposes to interconnect, includes either (1) a 3-winding transformer with the potential to connect to two different voltage level lines simultaneously; or (2) a combined cycle with a generator turbine and steam turbine connected at two different voltage levels.

At Developer's option, the ISO, Connecting Transmission Owner and Developer will provide input regarding alternative Point(s) of Interconnection and configurations at the Scoping

Meeting to evaluate in this process and attempt to eliminate alternatives in a reasonable fashion given resources and information available. During the Optional Interconnection Feasibility Study, System Reliability Impact Study, or Class Year Study, as applicable, the Connecting Transmission Owner and Affected Transmission Owner(s), identified pursuant to Section 30.3.5 of this Attachment X, shall provide input regarding proposed Point(s) of Interconnection and configurations. Developer will select the definitive Point of Interconnection to be studied no later than the commencement of the Interconnection System Reliability Impact Study.

A Developer seeking to return a Large Generating Facility to Commercial Operations after it is Retired must submit a new Interconnection Request as a new facility. A Developer returning a Large Generating Facility to service prior to the expiration or termination of its Mothball Outage or ICAP Ineligible Forced Outage need not submit a new Interconnection Request unless the Large Generating Facility is making modifications or is increasing its capacity such as would otherwise trigger a new Interconnection Request for an existing Large Generating Facility.

30.3.2 Types of Interconnection Service

30.3.2.1 Two Types of Service

The ISO offers Energy Resource Interconnection Service under the Large Facility Interconnection Procedures for interconnection in compliance with the NYISO Minimum Interconnection Standard. The ISO also offers CRIS under the Large Facility Interconnection Procedures for interconnection in compliance with the NYISO Deliverability Interconnection Standard.

30.3.2.2 Service Elections, Generally

All Large Facilities must interconnect in compliance with the NYISO Minimum Interconnection Standard. In addition, Large Facilities must also comply with the NYISO Deliverability Interconnection Standard before Large Generating Facilities can become qualified Installed Capacity Suppliers and before Class Year Transmission Projects can receive Unforced Capacity Deliverability Rights. A Developer initially states its election to be evaluated in its Interconnection Studies for ERIS alone, or for both ERIS and CRIS, as a part of its Interconnection Request. For Projects comprised of multiple Generators, a Developer must request a single ERIS value for the Large Facility and also specify the ERIS of~~, such ERIS to be allocated among~~ the multiple Generators comprising the Large Facility as requested by Developer in its Interconnection Request. For projects comprised of multiple Generators, the total ERIS for the Large Facility may be less than the sum of the ERIS for the individual Generators~~; provided however,~~. ~~the~~ The requested ~~allocation for~~ ERIS of the individual Generators is subject to the following limitations: ~~for the Intermittent Power Resource in a Co-located Storage Resource cannot exceed the Point of Injection limit plus the full withdrawal capability of the Energy Storage Resource.~~ (1) the requested ERIS for the Energy Storage Resource in a Co-located Storage Resource or Hybrid Storage Resource cannot exceed the lesser of the Point of Injection limit or its nameplate; and (2) the requested ERIS for each Resource in a Co-located Storage Resource or Hybrid Storage Resource other than the Energy Storage Resource cannot exceed the lesser of (a) the Point of Injection limit plus the full withdrawal capability of the Energy Storage Resource or (b) the relevant Resource's nameplate. An existing Large Generating Facility requesting only CRIS must request CRIS in an Open Class Year Study or an Expedited Deliverability Study unless it is requesting CRIS pursuant to Section 30.3.2.6 of this Attachment X. The ISO evaluates an Interconnection Request for compliance with the

Minimum Interconnection Standard throughout the Interconnection Study process. The ISO evaluates an Interconnection Request for compliance with the Deliverability Interconnection Standard formally during the Class Year Deliverability Study. At other times during the Interconnection Study process, during the Optional Interconnection Feasibility Study and the Interconnection System Reliability Study, the ISO will assist any Developer requesting CRIS to assess potential system deliverability issues by providing the Developer, upon its request, with the Annual Transmission Reliability Assessment case from the most recently completed Class Year Deliverability Study. Prior to entering a Class Year Study, t~~T~~he Developer may modify its interconnection service evaluation election (whether the Large Facility requests ERIS or ERIS and CRIS) and, for Large Facilities comprised of multiple Generators, the requested ~~allocation~~ MW of ERIS and or CRIS ~~among~~ of any of its multiple units, to the extent the modification is not a Material Modification under Section 30.4.4 of this Attachment X to the OATT, when it ~~executes~~ submits the Class Year Study Agreement for its project in accordance with Section 30.8.1 of these Large Facility Interconnection Procedures. ~~At that time, the Developer may~~ Permissible modifications prior to entering a Class Year Study include modifying the requested ERIS and CRIS for individual Generators within the multi-unit facility being evaluated in the same Interconnection Request; provided however, the total requested ERIS and CRIS for the Interconnection Request may not increase. The Developer can reduce the number of MW it initially requested to be evaluated for ERIS or CRIS, and such a reduction shall not constitute a Material Modification. ~~.~~

30.3.2.6 Increases In Established CRIS Values

Any facility with an established CRIS value may at a later date, without submitting a new Interconnection Request, ask the ISO to reevaluate the Large Facility for a higher level of MW of Installed Capacity, not to exceed the levels permitted by Section 25.8.1 of -Attachment S, by including the Project in a Class Year Study or Expedited Deliverability Study to identify whether the Project is deliverable at the higher level of MW. Any facility with an established CRIS value may, without such evaluation and without submitting a new Interconnection Request, increase that CRIS value by a total of no more than 2 MW of Installed Capacity during the operating life of the facility, to the extent such increase in CRIS does not exceed the levels permitted by Section 30.3.2.4 of this Attachment X; provided however, for facilities comprised of multiple Generators, this CRIS increase is permitted only at the facility (i.e., Project) level, not at the individual Generator level. A Project that receives a CRIS increase pursuant to this Section 30.3.2.6, to the extent it later combines with another facility or Project to become a co-located resource (e.g., Co-located Storage Resource~~s~~, Hybrid Storage Resource or a Distributed Energy Resource), is not eligible for any additional CRIS increase above a single increase up to 2 MW, without proceeding through a deliverability evaluation in a Class Year Study or Expedited Deliverability Study. For purposes of this Section 30.3.2.6, an "established CRIS value" for facilities subject to a CRIS set and reset period pursuant to Section 25.9.3.3, Section 25.9.3.1.4.1, Section 25.9.3.1.4.2, or Section 25.9.3.5 of Attachment S to the ISO OATT is the final CRIS value established after the termination of the CRIS set and reset period.

30.4 Queue Position

30.4.4 Modifications

30.4.4.2 Prior to the return of the executed Interconnection Facility Study Agreement to the ISO, the modifications permitted under this section shall include specifically: (a) additional 15 percent decrease of electrical output (MW) of the proposed project through either (1) a decrease in the plant size or (2) a decrease in the interconnection service level (consistent with the process described in Section 30.3.2.3) accomplished by applying injection-limiting equipment that is agreed to by the ISO and the Connecting Transmission Owner; (b) Large Facility technical parameters associated with modifications to Large Facility technology and transformer impedances; (c) a Permissible Technological Advancement for the Large Facility after the submission of the Interconnection Request; and (d) a reduction in the number of MW the Developer requests to be evaluated for CRIS; provided, however, the incremental Interconnection Study costs associated with those modifications are the responsibility of the requesting Developer. For a technological change, Section 30.4.4.7 specifies a separate Technological Change Procedure, which the ISO, in consultation with the Connecting Transmission Owner to the extent practicable, will follow to assess whether a Developer's requested change constitutes a Permissible Technological Advancement, as defined in Section 30.1 of this Attachment X.

For a Project in the Interconnection Queue with a validated Interconnection Request on or before~~prior to [insert effective date],~~ [effective

date of HSR tariff revisions], the Developer may, prior to the return of the executed Interconnection Facility Study Agreement to the ISO, modify the Project by combining it with ~~another~~ one or more Projects – both projects having validated Interconnection Requests in the Interconnection Queue on or before [effective date], ~~even if the~~regardless of whether the Projects are different technologies and regardless of whether the combined Project's requested ERIS or CRIS increases as a result of combining the queue positions; provided however, the Projects must (i) be co-located behind ~~the~~ the same Point of Interconnection; (ii) submit a revised Interconnection Request reflecting the modification to become a Project comprised of multiple Generators as well as identifying the Developer of record for purposes of the interconnection process; and (iii) demonstrate the manner in which such Developer of record retains Site Control for the combined Project. For a Project requesting a modification under this Section 30.4.4.2, upon ISO approval of such modification, the combined Project shall proceed as a single Project for purposes of the next interconnection study required for the Project more advanced in the interconnection study process (*i.e.*, a Project with a completed SRIS may combine with a Project without a completed SRIS; provided however, the combined Project will be evaluated as a single Project in the Class Year Study).

30.4.4.3 Prior to making any modification other than those specifically permitted by Sections 30.4.4.1, 30.4.4.2, 30.4.4.5, 30.4.4.6, and 30.4.4.7, Developer may first request that the ISO evaluate whether such modification is a Material Modification. In response to Developer's request, the ISO shall evaluate the

proposed modifications prior to making them and inform the Developer in writing of whether the modifications would constitute a Material Modification. Any change to the Point of Interconnection except those deemed acceptable under Section 30.4.4.1, 30.6.1, 30.7.2 or so allowed elsewhere shall constitute a Material Modification. Unless requested prior the commencement of the System Reliability Impact Study, any increase in requested CRIS from the requested CRIS set forth in the Interconnection Request or any request for CRIS not included in the Interconnection Request (*i.e.*, if the Interconnection Request included only a request for ERIS) shall constitute a Material Modification. Any modification to a Class Year Project during a Class Year Study for which it is a member shall ~~consistute~~constitute a Material Modification. For proposed modifications deemed to be Material Modifications, the Developer may withdraw the proposed modification request or proceed with a new Interconnection Request

30.14 Appendices

APPENDIX 1 TO LFIP - INTERCONNECTION REQUEST

1. The undersigned Developer submits this request to interconnect its Large Generating Facility or Class Year Transmission Project with the New York State Transmission System or Distribution System pursuant to the Standard Large Facility Interconnection Procedures in the ISO OATT ("LFIP").

2. This Interconnection Request is for [insert project name]:_____

_____, which

is (check one of the following):

____ A proposed new Large Generating Facility

____ A proposed ~~multi-unit Large Generating Facility seeking to participate~~Co-located Storage Resource~~;~~

____ -A proposed Hybrid Storage Resource~~;~~

____ A proposed multi-unit Large Generating Facility not seeking to participate as a Co-located Storage Resource or Hybrid Storage Resource

____ A proposed new BTM:NG Resource

____ A proposed new Class Year Transmission Project

____ A material modification to a proposed or existing facility (e.g., an increase in the capacity of an existing facility beyond the permissible de minimis increases permitted under Section 30.3.1 of Attachment X to the ISO OATT)

3. Legal Name of the Developer (or, if an individual, individual's name) (must be a single individual or entity):

Name of Developer: _____

Contact Person: _____

Title: _____

Address: _____

Email: _____

Telephone: _____

Address or location or the proposed new Large Facility site (to the extent known) or, in the case

of an existing Generating Facility or Class Year Transmission Project, the name and specific location of that existing facility:_____
_____
_____

4. Approximate location, and, if available, address, coordinates, of the proposed Point(s) of Interconnection:

POI: _____
_____
Quadrants: _____
Alternate POI: _____

5. MW nameplate rating: _____ at _____ degrees F (if the degrees are applicable)

6. Requested Interconnection Service:

MW of requested ERIS at the POI (maximum summer or winter net MW, whichever is greater): _____

(NOTE: A Developer may request ERIS below the Generating Facility Capability for Large Generating Facilities and the full facility capacity for Class Year Transmission Projects subject to the requirements and limitations set forth in Section 30.3.2.3 of Attachment X to the ISO OATT).

- If requesting ERIS for a ~~-~~multi-unit facility, specify the ~~allocation of~~ requested ERIS ~~among such units~~for each Generator: _____
_____

- Maximum summer net (net MW = gross MW minus auxiliary loads total MW) which can be achieved at 90 degrees F: _____
Maximum winter net (net MW = gross MW minus auxiliary loads total MW) which can be achieved at 10 degrees F : _____

- MW of requested increase in ERIS of an existing facility, as calculated from the baseline ERIS (as defined in Section 30.3.1 of Attachment X – for temperature-sensitive machines, provide the summer and winter MW vs. temperature curves for both gross MW and net MW corresponding to the requested net MW values provided above):_____

MW of requested CRIS: _____

- If requesting CRIS for a multi-unit facility, specify the ~~allocation of~~ requested CRIS ~~among such units~~for each Generator:_____

7. If a Class Year Transmission Project, which of the following forms of CRIS does the Developer intend to request:

Unforced Capacity Deliverability Rights
External-to-Rest of State Deliverability Rights

8. General description of the proposed Project (e.g.: describe type/size/number/general configuration of the proposed generator units, transmission, transformers, feeders, lines leading to the proposed point of interconnection(s), breakers, etc):_____

9. Attach a conceptual breaker one-line diagram and a project location geo map.~~;~~:

10. Proposed In-Service Date (Month/Year): _____

    Proposed Initial Synchronization Date (Month/Year): _____

    Proposed Commercial Operation Date (Month/Year): _____

11. Project power flow, short circuit, transient stability modeling data and supporting documentation (as set forth in Attachment A) (optional). Modeling data will be required during the scoping and applicable study agreement process, as coordinated by the ISO.

12. $10,000 non-refundable application fee must be submitted with this Interconnection Request form.

13. Evidence of Site Control as specified in the LFIP (check one):

    ____ Is attached to this Interconnection Request and provides site control for the following number of acres: _____; or

    ____ Will be provided at a later date in accordance with the LFIP, in which case a non-refundable $10,000 deposit in lieu of site control must be provided with this Interconnection Request form

14. This Interconnection Request shall be submitted to the ISO through the interconnection portal on the NYISO website.

15. This Interconnection Request is submitted by:

Signature: _____

Name (type or print): _____

Title: _____

Company: _____

Date: _____

LARGE GENERATING FACILITY PRELIMINARY DATA
(Additional data will be required at subsequent stages of the interconnection study process)

1. Describe the composition of assets (including MW level) within the Large Generating Facility, including load reduction assets (*e.g.*, 50 MW wind facility, 20 MW Energy Storage Resource and a load reduction resource with a maximum of 1 MW of load reduction):_____

   _____

2. Maximum Injection Capability of entire Large Generating Facility over 1 hour: _____

   _____

3. If the facility includes a Resource with Energy Duration Limitations~~-~~, indicate the maximum injection capability for the entire Large Generating Facility over the selected duration (e.g., 100 MW over 4 hours):_____

4. Provide the following information for each unit within the Large Generating Facility:

   Note: A completed Siemens PTI PSSE power-flow and dynamics models ~~General Electric Company Power Systems Load Flow (PSLF) data sheet~~ or other compatible formats, such as IEEE and ~~PTI~~PSLF ~~power flow~~ models, and Aspen short circuit model must be supplied at a later stage of the interconnection study process.

~~Energy Source~~Resource/Fuel type: _____ (Select from the dropped box in the portal system)

~~___Solar~~

~~___Wind~~

~~___Hydro___Hydro Type (e.g. Run-of-River):_____~~

~~___Energy Storage~~

~~___Diesel~~

~~___Natural Gas~~

~~___Fuel Oil~~

~~___Other (state type)_____~~

Generator Nameplate Rating: _____MW (Typical)

MVA _____ °F _____ Voltage (kV)_____

Maximum Reactive Power at Rated Power Leading ~~and Lagging~~ (MVAR): ___

Minimum Reactive Power at Rated Power Lagging (MVAR): ___

Connection (e.g. Wye, Delta or Wye-grounded) _____

Reactance data per unit, Subtransient – unsaturated (X"di): _____

Customer-Site Load:_____MW

Existing load? Yes ___ No___

If existing load with metered load data, provide coincident Summer peak load: _____

If new load or existing load without metered load data, provide estimated coincident Summer peak load, together with supporting documentation for such estimated value: _____

Typical Reactive Load (if known): _____

Generator ~~(or solar collector)~~ manufacturer, model name & number: _____

Inverter manufacturer, model name, number, and version: _____

~~Note: A completed General Electric Company Power Systems Load Flow (PSLF) data sheet or other compatible formats, such as IEEE and PTI power flow models, must be supplied at a later stage of the interconnection study process.~~

Nameplate Output Power Rating in MW: (Summer) _____ (Winter) _____

Nameplate Output Power Rating in MVA: (Summer) _____

_____

_____(Winter)

_____

If solar, total number of solar panels in solar farm to be interconnected pursuant to this Interconnection Request: _____

Inverter manufacturer, model name, number, and version: _____

If wind, total number of generators in wind farm to be interconnected pursuant to this Interconnection Request: _____

Generator Height: Single phase_____Three Phase_____

Wind Model Type: ___Type 1 ___ Type 2 ___ Type 3 ___ Type 4

If an Energy Storage Resource or a Resource with Energy Duration Limitations:

Inverter manufacturer, model name, number, and version: _____

_____

_____

Energy storage capability (MWh):_____

_____

_____

Minimum Duration for full discharge (i.e., injection) (Hours): _____

Minimum Duration for full charge (i.e., withdrawal) (Hours): _____

Maximum withdrawal from the system (i.e., when charging) (MW):_____

Maximum sustained ~~four~~ hour injection in MW hours[‡] (calculated at the Minimum Duration for full discharge):_____

Primary frequency response operating range for electric storage resource: _____

Minimum State of Charge: _____ ~~_____~~(%)

_____Maximum State of Charge:_____ _____

(%)

~~**If a Resource with Energy Duration Limitations**~~

~~Energy storage capability (MWh): _____~~

~~Minimum Duration for full discharge (i.e., injection) (Hours): _____~~

~~Minimum Duration for full charge (i.e., withdrawal) (Hours): _____~~

~~Maximum withdrawal from the system (i.e., when charging) (MW):_____~~

[‡] ~~Maximum sustained hours injection in MWh should be calculated at the Minimum Duration for full discharge~~

~~Inverter manufacturer, model name, number, and version: _____~~

~~_____~~

~~Primary frequency response operating range for electric storage resource:~~

~~Minimum State of Charge:_____(%) Maximum State of Charge:_____ (%)~~

GENERATOR STEP-UP TRANSFORMER DATA

RATINGS

Capacity Self-cooled/Maximum Nameplate

_____/_____MVA

Voltage Ratio (Generator Side/System Side/Tertiary)

_____/_____/_____kV

Winding Connections (Generator Side/System Side/Tertiary (Delta or Wye))

_____/_____/_____

Fixed Taps Available _____

Present Tap Setting _____

IMPEDANCE

Positive Z1 (on self-cooled MVA rating) _____ % _____ X/R

Zero Z0 (on self-cooled MVA rating) _____ % _____ X/R

ADDITIONAL INFORMATION REQUESTED FOR CLASS YEAR TRANSMISSION PROJECTS

Description of proposed project:

a. ~~a.~~ General description of the equipment configuration and kV level:

b. ~~b.~~ Transmission technology and manufacturer (e.g., HVDC VSC):

ADDITIONAL INFORMATION REQUESTED FOR FACILITIES SEEKING ERIS BELOW FULL OUTPUT

Describe any injection-limiting equipment if the facility is requesting ERIS below its full output:

Attachment B To Appendix 2 - Interconnection Facilities Study Agreement

DATA FORM TO BE PROVIDED BY DEVELOPER

WITH THE INTERCONNECTION FACILITIES STUDY AGREEMENT

1. Provide location plan and simplified one-line diagram of the plant and station facilities. For staged projects, please indicate future generation, transmission circuits, etc.

2. Finalize and specify your Interconnection Service evaluation election for the Class Year Study. Developer should specify either Energy Resource Interconnection Service ("ERIS") alone, both ERIS and some MW level of Capacity Resource Interconnection Service ("CRIS") or CRIS only (e.g., if your facility is already interconnected taking only ERIS, you may elect to be evaluated for CRIS only); provided however, that CRIS requests are subject to the limits specified in Section 25.8.1 of Attachment S to the ISO OATT. Evaluation election:

   ERIS: _____ at the POI

   If requesting ERIS for a multi-unit Large Generating Facility, specify the ~~allocation of~~ requested ERIS ~~among such units~~for each Generator

   _____

   _____

   CRIS: _____

   If requesting CRIS for a multi-unit Large Generating Facility, specify the ~~allocation of~~ requested CRIS ~~among such units~~for each Generator:

   _____

   _____

   For a Resource with Energy Duration Limitations that is requesting CRIS, indicate the maximum injection capability over the selected duration (e.g., 10 MWh over 4 hours): _____

   If requesting a CRIS transfer, indicate the transferor PTID(s), MW amount and, for a multi-unit Large Generating Facility, the specific Generator from which and to which the transfer is proposed:

   _____

   _____

3. Proposed Schedule:

Begin Construction	Date: _____
In-Service	Date: _____
Initial Synchronization	Date: _____
Generation Testing	Date: _____
Commercial Operation	Date: _____

4. Additional Information Required as Part of this Data Form:

Additional Information:

Nameplate MW: _____

Nameplate MVA: _____

Auxiliary Load MW: _____

Auxiliary Load MVAR: _____

For temperature sensitive units, provide MW vs. temp curves and indicate maximum summer and winter net capability below:

- Maximum summer net (net MW = gross MW minus auxiliary loads total MW) which can be achieved at 90 degrees F: _____
- Maximum winter net (net MW = gross MW minus auxiliary loads total MW) which can be achieved at 10 degrees F : _____

1. One set of metering is required for each generation connection to the new ring bus or existing Connecting Transmission Owner station. Number of generation connections: ___
_____

2. On the one-line indicate the generation capacity attached at each metering location. (Maximum load on CT/PT)

_____

3. On the one-line indicate the location of auxiliary power. (Minimum load on CT/PT) Amps

4. Will an alternate source of auxiliary power be available during CT/PT maintenance? _____ Yes _____ No

5. Will a transfer bus on the generation side of the metering require that each meter set be designed for the total plant generation? _____ Yes _____ No

   (If yes, indicate on one-line diagram).

6. -What type of control system or PLC will be located at the Developer's facility?

   _____

7. What protocol does the control system or PLC use?

   _____

8. Please provide a 7.5-minute quadrangle of the site. Sketch the plant, station, transmission line, and property line.

   _____

9. Physical dimensions of the proposed interconnection station:

_____

10. Bus length from generation to interconnection station:

_____

11. Line length from interconnection station to Connecting Transmission Owner's transmission line.

_____

12. Tower number observed in the field. (Painted on tower leg):

_____

13. Number of third-party easements required for transmission lines, if known:

_____

14. Describe any injection-limiting equipment if the facility is requesting ERIS below its full output:

_____

BTM:NG Resources

15. In addition to the above information, as applicable, for BTM:NG Resources, please also provide the following information:

Developer or Customer-Site Load: _____kW (if none, so state)

Existing load? Yes ___ No___

If existing load with metered load data, provide coincident Summer peak load: _____

If new load or existing load without metered load data, provide estimated coincident Summer peak load: _____

Is the new or existing load in the Transmission Owner's service area?

_____ Yes _____No Local provider: _____

Resources with Energy Duration Limitations

In addition to the above information, as applicable, for Resources with Energy Duration Limitations, please also provide the following information:

Energy storage capability (MWh): _____

Minimum Duration for full discharge (i.e., injection) (Hours): _____

Minimum Duration for full charge (i.e., withdrawal) (Hours): _____

Maximum withdrawal from the system (i.e., when charging) (MW): _____

Inverter manufacturer, model name, number, and version: _____

_____

Maximum sustained injection (in MW) over the Developer-selected duration: _____;

Primary frequency response operating range for electric storage resource: _____

Minimum State of Charge: _____ (%) Maximum State of Charge:_____ (%)

If requesting CRIS, indicate the maximum injection capability over the selected duration (e.g., 2.5 MW over 4 hours for a total of 10 MWh):_____

Appendix 3 to LFIP – LARGE FACILITY MODIFICATION REQUEST

Large Facility Modification Request

1. The undersigned Developer submits this request to modify an Interconnection Request for a Large Facility ~~Generating Facility or Class Year Transmission Project currently~~ with an Interconnection Request in the NYISO's Interconnection Queue or an existing Large Facility.

2. Queue No. (if in the Interconnection Queue~~applicable~~): _____ Project Name: _____

PTID (if existing)): _____ Facility Name: _____
_____

3. Nature of proposed modification (check all that apply):

___ Change in total ~~Electric Output (MW)~~ERIS (MW) of the Large Facility

___ Change in ERIS (MW)

___ Change in CRIS (MW)

___ Modification of t~~T~~echnical p~~P~~arameters of Large Facility's ~~T~~technology and ~~T~~transformer Impedances

___ Modification to ~~I~~interconnection ~~C~~configuration

___ Technological change proposed as a Permissible Technological Advancement~~Change or Advancement~~

___ Other technological change

___ Extension of Commercial Operation Date

___ Other Modification Not Listed Above

4. Description of proposed modification:

_____

_____

_____

_____

5. Attach a revised conceptual breaker one-line diagram and a project location geo map, as applicable.

6. If the modification is a decrease in the facility capacity or requested interconnection service, provide an explanation for the decrease, including a description of the injection-limiting equipment with all the necessary parameters of such equipment, as applicable, provided however, if the modification is an increase in the facility capacity or requested interconnection service, provide an explanation for the increase, including a description of any corresponding modifications to the facility:

   _____

   _____

   _____

   _____

7. Proposed modification to an Interconnection Request due to a technological advancement, which includes advancements to turbines, inverters, or plant supervisory controls or other similar advancements to the existing technology proposed in the Interconnection Request (NOTE: a technological advancement will be evaluated under Section 30.4.4.7 of Attachment X to the OATT, which requires a $10,000 study deposit be submitted with this form).

   a. If the modification is due to a technological advancement to the technology originally proposed, detail the proposed configuration of the technological advancement and the manner of installation:

      _____

      _____

      _____

      _____

   b. Provide the parameters associated with the proposed technological advancement:

Parameter	Before Application of Proposed Technological Advancement	After Application of Proposed Technological

		Advancement
Manufacturer		
Model		
# of Units		
Total Project MVA		
MVA/Unit		
~~Subtransient Impedance (R" + jX") or equivalent fault current limit for inverter-based technology~~		
Total Project MW		
MW/Unit		
Total Project ~~Mvar~~ MVAR Capability		
~~Mvar~~ MVAR Capability/Unit		
Unit kV		
Total Project Power Factor		
Unit Power Factor		
Unit Dynamic Model		
Associated Device(s) Dynamic Model		
Any applicable parameter that will change		
Total Project Single Line Diagram		
MVA/Unit transformer		
kV/Unit transformer		
Impedance/Unit transformer: (Z_1%, Z_0%, X/R)		
Number of Main Transformers		
MVA/Main transformer		
kV/Main transformer		
Impedance/Main transformer two-winding: (Z_1%, Z_0%, X/R)		
Impedance/Main transformer three-winding if applicable:		

Z_1(H-L)%, Z_1(H-T)%, Z_1(T-L)%, X/R Z_0(H-L)%, Z_0(H-T)%, Z_0(T-L)%, X/R		
Short Circuit Model Data: (Generator, Machine) Reactance pu: X" X' X_2 X_0 Max fault current contribution in pu of FLC		

c. If any of the above parameters would change due to the proposed technological advancement, demonstrate that the proposed incorporation of the technological advancement would result in electrical performance that is equal to or better than the electrical performance expected prior to the technology change and not cause any reliability concerns (*i.e.*, not have a material adverse impact on the transmission system with regard to short circuit capability limits, steady-state thermal and voltage limits, or dynamic system stability and response). Provide support, including any completed studies, that demonstrate that the technological advancement is permissible and/or non-material under Section 30.4.4.7 of Attachment X to the OATT.

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8. For a change to the Commercial Operation Date (COD) of the proposed Large Facility, provide the following:

a. Original Proposed Commercial Operation Date (Month/Year): _____

b. Revised Proposed Commercial Operation Date (Month/Year): _____

c. For a proposed change four (4) years or more beyond the date that the Developer and all other Developers remaining in the Class Year posted Security as a part of a Class Year Interconnection Facilities Study (*i.e.*, completion of the Class Year), attach an Officer certification and supporting documentation demonstrating that the Developer has made reasonable progress against milestones set forth in the Interconnection Agreement (refer to Section 30.4.4.5.2 of Attachment X to the OATT for specific details for requesting such a change).

9. As it relates to the requested modification of an Interconnection Request, provide any updates to data required in Attachment A to the Interconnection Request – "Large Generating Facility Preliminary Data" or provided during completed stages of the interconnection study process.

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10. The NYISO, in consultation with the Connecting Transmission Owner(s), may request additional information, if necessary, to further assess the proposed modification.