



Request for Payment Instructions Rule 21 – Export

Submittal Instructions

Prior to submitting your application and fee or deposit, please complete and submit this form to:
Rule21@sce.com

In response, you will receive detailed payment instructions within a Request for Advance Payment form that will greatly facilitate the tracking and processing of your request. The Request for Advance Payment form will contain mailing and wiring instructions along with a document number for SCE to track your payment. Please do not mail any checks along with your interconnection application, instead, please use the instructions provided.

Absent extraordinary circumstances, instructions should be sent to you within 3 business days of receipt of this completed Request for Payment Instructions form.

Once the payment confirmation and complete application package are received, your request will be forwarded for processing and review.

INTERCONNECTION CUSTOMER INFORMATION

Customer Name: _____

Customer Address: _____

Project Contact Name: _____

Project Contact Phone Number: **E-mail:** _____

Project Name: _____

New Project Generating Facility Gross Nameplate Rating (In MW): _____

STUDY PROCESS

Select the *one* of the options under **Fast Track Process** or **Detailed Study Process**

- "Exporting Generating Facility Application fee is \$800.00* - **Applicable to All Projects**

Fast Track Process

See section E.2.b.i. of the Rule 21 Tariff for Eligibility

- For projects that require A Supplemental Review Fee of \$2,500.00*** "For an Exporting Generating Facility that agrees to the installation of Distribution Provider-approved protective devices at Applicant's cost such that the Exporting Generating Facility's net export will never exceed the Fast Track eligibility limits, the Generating Facility's net export will be considered for purposes of Fast Track eligibility. However, these Interconnection Requests will be required to complete Supplemental Review and should pre-pay for Supplemental Review at the time the Interconnection Request is submitted.

Detailed Study Process

See section E.2.b.ii. of the Rule 21 Tariff for Eligibility

- For a Generating Facility with a Gross Nameplate Rating of 5 MW or less** and applying to the Independent Study Process or the Distribution Group Study Process
\$10,000* for a System Impact Study (to be provided when study agreement is executed)
\$15,000* for a Facilities Study (to be provided prior to commencement of facilities study)
- For a Generating Facility with a Gross Nameplate Rating above 5 MW, \$50,000* plus \$1,000* per MW** of electrical output of the Generating Facility, or the increase in electrical output of the existing Generation Facility, as applicable, rounded up to the nearest whole MW, up to a maximum of \$250,000.
The study deposit can range from \$56,000.00 to \$250,000.00* (to be provided when the Independent Study Process Study Agreement study agreement is executed)

SCE GRID INTERCONNECTION CONTACT INFORMATION

If you have any questions, please contact us:

Via E-mail: InterconnectionQA@sce.com

The Grid Interconnection phone number is: 626-302-3688

*Fees and deposits are calculated using the Rule 21 Tariff Revised in July 2014, Table E.1. in section E.2.c. Please refer to the tariff for the most current fee and deposit information as well as refund guidelines. A copy of the Rule 21 Tariff can be found on our Open Access site: www.sce.com/GridInterconnection



Southern California Edison
Rosemead, California (U 338-E)

Revised Cal. PUC Sheet No. 61964-E
Cancelling Revised Cal. PUC Sheet No. 60044-E

Sheet 1

RULE 21 EXPORTING GENERATING FACILITY
INTERCONNECTION REQUEST

Form 14-918

(To be inserted by utility)

Advice 3623-E
Decision 14-12-035

Issued by
Caroline Choi
Senior Vice President

(To be inserted by Cal. PUC)

Date Filed Jun 27, 2017
Effective Jul 27, 2017
Resolution _____

**RULE 21 EXPORTING GENERATING FACILITY
INTERCONNECTION REQUEST**

Provide two copies of this completed form pursuant to Section 6 below.

1. The undersigned Applicant submits this request to interconnect its Generating Facility with Distribution Provider's Distribution System pursuant to Rule 21 (check only one):

- Detailed Study Process
 Fast Track Process

- 1.A. Cost Envelope Option election for upgrades:
Please indicate below if Applicant elects to participate in the Cost Envelope Option pursuant to Rule 21 Section F.7 for the costs associated with any applicable Interconnection Facilities and/or Distribution Upgrades (check below):

- Yes
 No

If "Yes" is selected, Applicant must also provide the additional information under Section 11 of Attachment A to this Interconnection Request.

2. This Interconnection Request is for (check only one):

- A proposed new Generating Facility.
 An increase in the generating capacity or a Material Modification of an existing Generating Facility.

3. Applicant provides the following information:

- a. Address or location, including the county, of the proposed new Generating Facility site (to the extent known) or, in the case of an existing Generating Facility, the name and specific location, including the county, of the existing Generating Facility;

Project Name:

Project Location:

Street Address:

City, State:

County:

Zip Code:

GPS Coordinates:

- b. Maximum net megawatt electrical output (as defined by section 2.c. of Attachment A to this appendix) of the proposed new Generating Facility or

**RULE 21 EXPORTING GENERATING FACILITY
INTERCONNECTION REQUEST**

the amount of net megawatt increase in the generating capacity of an existing
Generating Facility;

Maximum net megawatt electrical output (MW): _____ or
Net Megawatt increase (MW): _____

c. Type of project (i.e., gas turbine, hydro, wind, etc.) and general description of
the equipment configuration (if more than one type is chosen, include net MW
for each);

- Cogeneration _____ MW
- Reciprocating Engine _____ MW
- Biomass _____ MW
- Steam Turbine _____ MW
- Gas Turbine _____ MW
- Wind _____ MW
- Hydro _____ MW
- Inverter Based: (e.g., Photovoltaic, Fuel Cell) _____ MW
If Fuel Cell, please describe primary fuel source:
- Combined Cycle _____ MW
- Battery Storage or Advanced Energy Storage
- Other (please describe): _____ MW

d. Proposed In-Service Date, and Other Key Dates (Day/Month/Year) (Dates
must be sequential)

Proposed In-Service Date: / /
Proposed Trial Operation Date: / /
Proposed Commercial Operation Date: / /
Proposed Term of Service (years): _____

e. Name, address, telephone number, and e-mail address of Applicant's contact
person (primary person who will be contacted);

Name:
Title:
Company Name:
Street Address:
City, State:

**RULE 21 EXPORTING GENERATING FACILITY
INTERCONNECTION REQUEST**

Zip Code:
Phone Number:
Fax Number:
Email Address:
Interconnection Customer's DUNS Number:

- f. Approximate location of the proposed Point of Interconnection (i.e., specify distribution facility interconnection point name, voltage level, and the location of interconnection);

- g. Applicant Data (set forth in Attachment A)

The Applicant shall provide to the Distribution Provider the technical data called for in Attachment A. Two (2) copies are required.

- 4. Applicable Interconnection Request fee and Detailed Study deposit amount as specified in Rule 21 made payable to Southern California Edison Company. Send check to Distribution Provider along with:
 - 1. A completed Interconnection Request form for processing.
 - 2. A completed Attachment A (Interconnection Request Generating Facility Data).
- 5. Attach evidence of Site Exclusivity as specified in Rule 21 Section E.2.d as applicable, and name(s), address(es) and contact information of site owner(s).
- 6. This Interconnection Request shall be submitted to the representative indicated below:

Southern California Edison Company
Grid Interconnection & Contract Development
2244 Walnut Grove Ave.
P.O. Box 945
Rosemead, CA 91770

Email: Rule21@sce.com
Phone: 626-302-3688

- 7. Representative of Applicant to contact:

[To be completed by Applicant]

Name:

Title:

**RULE 21 EXPORTING GENERATING FACILITY
INTERCONNECTION REQUEST**

Company Name:
Street Address:
City, State:
Zip Code:
Phone Number:
Fax Number:
Email Address:

8. If the Applicant also requests Distribution Service, additional information and an additional deposit is required in accordance with Section 15.2 of the WDAT.

9. Applicant should be aware that if Applicant has not yet received Rule 21 Screen Q results from Distribution Provider by March 15th following submittal of this Interconnection Request, Applicant will need to submit, if Applicant voluntarily chooses to do so, an Interconnection Request under Distribution Provider's FERC Wholesale Distribution Access Tariff (WDAT) by the close of the CAISO cluster application window, (refer to <http://www.caiso.com/docs/2002/06/11/2002061110300427214.html> for the exact date), in order to participate in the Transmission Cluster Study for the year. An application under WDAT will not impact the results of this Rule 21 study.

10. This Interconnection Request is submitted by:

Legal name of Applicant: _____

By (signature): _____

Name (type or print): _____

Title: _____

Date: _____

**RULE 21 EXPORTING GENERATING FACILITY
INTERCONNECTION REQUEST**

**Attachment A to Rule 21 Exporting Generating
Facility Interconnection Request**

GENERATING FACILITY DATA

Provide two copies of this completed form pursuant to Section 6 of Interconnection Request.

- Each Applicant will complete Sections 1 and 2 of this Attachment A.
- Each Applicant will complete the applicable data in Sections 3 through 6 of this Attachment A based on the type of generating facility(ies) requesting interconnection. (Section 3 for synchronous generators, Section 4 for induction generators, Section 5 for wind turbine generators, and Section 6 for inverter-based generators).
- Each Applicant will complete Sections 7 through 10, as applicable.
- Each Applicant selecting the Cost Envelope Option will complete Section 11.
- At any time, Distribution Provider may require Applicant to provide additional technical data, or additional documentation supporting the technical data provided, as deemed necessary by the Distribution Provider to perform Interconnection Studies, other studies, or evaluations as set forth under Rule 21.

1. Provide two original prints and one reproducible copy (no larger than 36" x 24") of the following:

- A. Site drawing to scale, showing generator location and Point of Interconnection with the Distribution Provider's Distribution System.
- B. Single-line diagram showing applicable equipment such as generating units, step-up transformers, auxiliary transformers, switches/disconnects of the proposed interconnection, including the required protection devices and circuit breakers. For wind and photovoltaic generator projects, the one line diagram should include the distribution lines connecting the various groups of generating units, the generator capacitor banks, the step up transformers, the distribution lines, and the substation transformers and capacitor banks at the Point of Interconnection with the Distribution Provider's Distribution System. This one-line drawing must be signed and stamped by a licensed Professional Engineer if the Generating Facility is larger than 50 kW.

2. Generating Facility General Information:

- A. Total Generating Facility rated output (MW): _____
- B. Generating Facility auxiliary Load (MW): _____
- C. Project net capacity (MW): _____
- D. Standby Load when Generating Facility is off-line (MW): _____
- E. Number of Generating Units: _____
(Please repeat the following items for each generator)
- F. Individual generator rated output (MW for each unit): _____

**RULE 21 EXPORTING GENERATING FACILITY
INTERCONNECTION REQUEST**

G. Type (induction, synchronous, D.C. with inverter):

H. Phase (3 phase or single phase): _____

3. Synchronous Generator –Information:

3A Generator Information:

(Please repeat the following for each generator)

- A. Manufacturer: _____
- B. Year Manufactured: _____
- C. Rated Generator speed (rpm): _____
- D. Rated MVA: _____
- E. Rated Terminal Voltage (kV): _____
- F. Rated Generator Power Factor: _____
- G. Generator Efficiency at Rated Load (%): _____
- H. Moment of Inertia (including prime mover): _____
- I. Inertia Time Constant (on machine base) H: _____ sec or MJ/MVA
- J. SCR (Short-Circuit Ratio - the ratio of the field current required for rated open-circuit voltage to the field current required for rated short-circuit current): _____

- K. Please attach generator reactive capability curves.
- L. Rated Hydrogen Cooling Pressure in psig (Steam Units only):

- M. Please attach a plot of generator terminal voltage versus field current that shows the air gap line, the open-circuit saturation curve, and the saturation curve at full load and rated power factor.

3B Excitation System Information:

(Please repeat the following for each generator)

- A. Indicate the Manufacturer _____ and Type _____ of excitation system used for the generator. For exciter type, please choose from 1 to 9 below or describe the specific excitation system.
 - (1) Rotating DC commutator exciter with continuously acting regulator. The regulator power source is independent of the generator terminal voltage and current.
 - (2) Rotating DC commutator exciter with continuously acting regulator. The regulator power source is bus fed from the generator terminal voltage.
 - (3) Rotating DC commutator exciter with non-continuously acting regulator (i.e., regulator adjustments are made in discrete

**RULE 21 EXPORTING GENERATING FACILITY
INTERCONNECTION REQUEST**

- increments).
- (4) Rotating AC Alternator Exciter with non-controlled (diode) rectifiers. The regulator power source is independent of the generator terminal voltage and current (not bus-fed).
 - (5) Rotating AC Alternator Exciter with controlled (thyristor) rectifiers. The regulator power source is fed from the exciter output voltage.
 - (6) Rotating AC Alternator Exciter with controlled (thyristor) rectifiers.
 - (7) Static Exciter with controlled (thyristor) rectifiers. The regulator power source is bus-fed from the generator terminal voltage.
 - (8) Static Exciter with controlled (thyristor) rectifiers. The regulator power source is bus-fed from a combination of generator terminal voltage and current (compound-source controlled rectifiers system).
 - (9) Other (specify):

- B. Attach a copy of the block diagram of the excitation system from its instruction manual. The diagram should show the input, output, and all feedback loops of the excitation system.
- C. Excitation system response ratio (ASA): _____
- D. Full load rated exciter output voltage: _____
- E. Maximum exciter output voltage (ceiling voltage): _____
- F. Other comments regarding the excitation system?

3C Power System Stabilizer Information:

(Please repeat the following for each generator.)

- A. Manufacturer:

- B. Is the PSS digital or analog?

- C. Note the input signal source for the PSS?
_____ Bus frequency _____ Shaft speed _____
Bus Voltage _____ Other (specify source) _____
- D. Please attach a copy of a block diagram of the PSS from the PSS Instruction Manual and the correspondence between dial settings and the time constants or PSS gain.
- E. Other comments regarding the PSS?

3D Turbine-Governor Information:

(Please repeat the following for each generator)

**RULE 21 EXPORTING GENERATING FACILITY
INTERCONNECTION REQUEST**

Please complete Part A for steam, gas or combined-cycle turbines, Part B for hydro turbines, and Part C for both.

A. Steam, gas or combined-cycle turbines:

- (1) List type of unit (Steam, Gas, or Combined-cycle): _____
- (2) If steam or combined-cycle, does the turbine system have a reheat process (i.e., both high and low pressure turbines)?

- (3) If steam with reheat process, or if combined-cycle, indicate in the space provided, the percent of full load power produced by each turbine:
Low pressure turbine or gas turbine: _____%
High pressure turbine or steam turbine: _____%
- (4) For combined cycle plants, specify the plant net output capacity (MW) for an outage of the steam turbine or an outage of a single combustion turbine: _____

B. Hydro turbines:

- (1) Turbine efficiency at rated load: _____%
- (2) Length of penstock: _____ft
- (3) Average cross-sectional area of the penstock: _____ft²
- (4) Typical maximum head (vertical distance from the bottom of the penstock, at the gate, to the water level): _____ft
- (5) Is the water supply run-of-the-river or reservoir: _____
- (6) Water flow rate at the typical maximum head:
_____ft³/sec
- (7) Average energy rate: _____kW-hrs/acre-ft
- (8) Estimated yearly energy production: _____kW-hrs

C. Complete this section for each machine, independent of the turbine type.

- (1) Turbine manufacturer: _____
- (2) Maximum turbine power output: _____MW
- (3) Minimum turbine power output (while on line):
_____MW
- (4) Governor information:
 - (a) Droop setting (speed regulation): _____
 - (b) Is the governor mechanical-hydraulic or electro-hydraulic (Electro-hydraulic governors have an electronic speed sensor and transducer.)?

 - (c) Other comments regarding the turbine governor

**RULE 21 EXPORTING GENERATING FACILITY
INTERCONNECTION REQUEST**

system?

3E Short Circuit Duty Information:

For each generator, provide the following reactances expressed in p.u. on the generator base:

- X_d – Direct Axis Synchronous Reactance: _____ p.u.
- X'_d – Direct Axis Transient Reactance: _____ p.u.
- X''_d – Direct Axis Subtransient Reactance: _____ p.u.
- X_2 – Negative Sequence Reactance: _____ p.u.
- X_0 – Zero Sequence Reactance: _____ p.u.

Generator Grounding (select one for each model):

- A. Solidly grounded
- B. Grounded through an impedance
(Impedance value in p.u. on generator base.
R: _____ p.u.
X: _____ p.u.)
- C. Ungrounded

4. Induction Generator Information:

(Please repeat the following for each generator)

- A. Motoring Power (kW): _____
- B. I_2^2t or K (Heating Time Constant): _____
- C. Rotor Resistance, R_r : _____
- D. Stator Resistance, R_s : _____
- E. Stator Reactance, X_s : _____
- F. Rotor Reactance, X_r : _____
- G. Magnetizing Reactance, X_m : _____
- H. Short Circuit Reactance, X_d'' : _____
- I. Exciting Current: _____
- J. Temperature Rise: _____
- K. Frame Size: _____
- L. Design Letter: _____
- M. Reactive Power Required In Vars (No Load): _____
- N. Reactive Power Required In Vars (Full Load): _____
- O. Total Rotating Inertia, H: _____ Per Unit on kVA Base

5. Wind Turbine Generator (WTG) Information:

**RULE 21 EXPORTING GENERATING FACILITY
INTERCONNECTION REQUEST**

(Proposed projects may include one or more WTG types. Please repeat the following for each type of WTG).

- A. WTG Manufacturer and Model: _____
- B. Number of WTGs: _____
- C. WTG Type (check one):
 - Type 1 (Squirrel-cage induction generator)
 - Type 2 (Wound rotor induction machine with variable rotor resistance)
 - Type 3 (Doubly-fed asynchronous generator)
 - Type 4 (Full converter interface)
- D. Nameplate Rating (each WTG): _____/_____ kW/kVA
- E. Rated Terminal Voltage: _____ kV
- F. For Type 1 or Type 2 WTGs:
 - (1) uncompensated power factor at full load: _____
 - (2) power factor correction capacitors at full load: _____MVAR
 - (3) number of shunt stages and size: _____

 - (4) Please attach capability curve describing reactive power or power factor range from no output to full rated output, including the effect of shunt compensation
- G. For Type 3 or Type 4 WTGs:
 - (1) Maximum under-excited power factor at full load: _____
 - (2) Maximum over-excited power factor at full load: _____
 - (3) Control mode: _____ (voltage control, fixed power factor)
 - (4) Please attach capability curve describing reactive power or power factor range from no output to full rated output
- H. Short Circuit Characteristics: Applicant to provide technical data related to the short circuit characteristics of proposed WTGs for short circuit duty study modeling purposes. For example, the applicant can provide manufacturer short circuit test data showing faulted condition for three phase and single-line-to-ground fault.

Distribution Provider may require testing verification of voltage and harmonic performance during commissioning test of WTG based generation projects.

6. Inverter Based Generation Systems Information:

(Proposed inverter based generation projects may include one or more types of inverters. Please repeat the following for each type of inverter).

- A. Inverter Manufacturer and Model: _____
- B. Number of Inverters: _____
- C. Nameplate Rating (AC, each inverter): _____/_____ kW
- D. Nameplate Voltage Rating (AC): _____ kV
- E. Maximum AC line current: _____ Amps
- F. Nameplate Power Factor Rating (AC): _____

**RULE 21 EXPORTING GENERATING FACILITY
INTERCONNECTION REQUEST**

Ground Wire Type: _____ Size: _____ Distance to Ground: _____ft
Attach Tower Configuration Diagram
Summer line ratings in amperes (normal and emergency) _____
Positive Sequence Resistance (R): _____ p.u.** (for entire line length)
Positive Sequence Reactance: (X): _____ p.u.** (for entire line length)
Zero Sequence Resistance (R0): _____ p.u.** (for entire line length)
Zero Sequence Reactance: (X0): _____ p.u.** (for entire line length)
Line Charging (B/2): _____ p.u.**
** On 100-MVA and nominal line voltage (kV) Base

9. Plant-Level Reactive Power Compensation Data:

Provide the following information for plant-level reactive power compensation, if applicable:

- A. Number of individual shunt capacitor banks: _____
- B. Individual shunt capacitor bank rated voltage (kV): _____
- C. Individual shunt capacitor bank size (kVAR at rated voltage): _____
- D. Planned dynamic reactive control devices (SVC, STATCOM):

- E. Control range: _____ kVAR (lead) _____ kVAR (lag)
- F. Control mode (e.g. voltage, power factor, reactive power): _____
- G. Please provide the overall plant reactive power control strategy

10. Storage Required Technical Information

The information required in this form for storage systems is in addition to the information required in the existing interconnection forms under Rule 21

Description of Storage System Operation

Describe the intended use of the storage device (Note 1):

Note 1: Example of this can be **peak shaving, export to grid, load shifting**, etc. The intended use may be taken into account in the study process and may trigger additional technical requirements.

Electrical Source Function

Max Storage KWH Capability: _____ KWH

Rated constant KW Discharge: _____ KW

Max Constant KW Discharge: _____ KW

**RULE 21 EXPORTING GENERATING FACILITY
INTERCONNECTION REQUEST**

Specify the devices which will be used to limit the discharge (Inverters, Storage Control, etc): _____

Electrical Load Function

Rated Charge Demand (Load): _____ KW

Will the distribution grid be used to charge the storage device (Yes/No): _____

If yes: Will charging the storage system from the grid increase the host facility's current peak load demand (Yes/No)

Yes: Provide the amount of added demand (in KW): _____

No: Provide technical description on charge control system (including charging periods): _____

If no: Provide technical description on charging control system including source of energy and mechanism to prevent charging from the grid:

Generating Facility

Including all generation sources such as PV, storage and other technologies, provide the following information:

Will the Generating Facility export power to the grid (Yes/No): _____

If yes, specify Generating Facility's maximum coincident export to the grid: _____KW

If all generation sources are not simultaneously exporting to the grid, provide technical description of the controls systems for this function:

11. Cost Envelope Option – Additional Required Information:

- A. Final location of the Point of Common Coupling (Point of Change of Ownership): *[provide a description of the physical location of the Point of Common Coupling and indicate on the site drawing provided under Section E below]*
- B. Final location of the Point of Interconnection: *[provide a description of the physical location of the Point of Interconnection and indicate on the site drawing provided under Section E below]*
- C. Confirmation of service voltage:

**RULE 21 EXPORTING GENERATING FACILITY
INTERCONNECTION REQUEST**

- D. Confirmation that technical data provided in the Interconnection Request is accurate, including equipment type and manufacturer:
- E. A site drawing of a scale of 1:30 or less, which shows the final location of the Point of Common Coupling, Point of Interconnection, and final location and routing of conductors and equipment between the Point of Common Coupling and the Point of Interconnection:
- F. Identification of any constraints or limitations related to the siting or routing of conductors and equipment between the Point of Common Coupling and the Point of Interconnection: *[provide a description of the constraints/limitations and indicate their location on the site drawing provided under Section E above]*

12. Load Flow and Dynamic Models:

Upon Distribution Provider request, the following information will be required. The WECC Data Preparation Manual for Power Flow Base Cases and Dynamic Stability Data has established power flow and dynamic modeling requirements for generation projects in WECC base cases. In general, if the aggregate sum of generation on a bus exceeds 10 MVA, it should not be netted. Furthermore, the total netted generation in an area should not exceed five percent of the area's total generation. Based on current WECC modeling requirements, the following information will be required for all generation projects whose net capacity is greater than 10 MVA. The following information may also be required for generation projects less than 10 MVA on a case-by-case basis, based on the amount of generation in the area of the requested Point of Interconnection.

- A. Provide load flow model for the generating plant and its interconnection facilities in GE PSLF *.epc format, including new buses, generators, transformers, interconnection facilities. An equivalent model is required for the plant with generation collector systems. This data should reflect the technical data provided in this Attachment A.
- B. For each generator, governor, exciter, power system stabilizer, WTG, or inverter based generator, select the appropriate dynamic models from the General Electric PSLF Program Manual and provide the required input data. Include any user written *.p EPCL files to simulate inverter based plants' dynamic responses (typically needed for inverter based PV/wind plants). Provide a completed *.dyd file that contains the information specified in this section.

The GE PSLF manual is available upon request from GE. There are links within the GE PSLF User's Manual to detailed descriptions of specific models, a definition of each parameter, a list of the output channels, explanatory notes, and a control system block diagram. In addition, GE PSLF modeling information and various modeling guidelines documents have been prepared by the WECC Modeling and Validation Work Group. This information is available on the WECC website (www.wecc.biz).

**RULE 21 EXPORTING GENERATING FACILITY
INTERCONNECTION REQUEST**

If you require assistance in developing the models, we suggest you contact General Electric. Accurate models are important to obtain accurate study results. Costs associated with any changes in facility requirements that are due to differences between model data provided by the generation developer and the actual generator test data, may be the responsibility of the generation developer.

TABLE 1

TRANSFORMER DATA
(Provide for each level of transformation)

UNIT _____

NUMBER OF TRANSFORMERS _____ PHASE _____

RATING	H Winding	X Winding	Y Winding
Rated MVA	_____	_____	_____
Connection (Delta, Wye, Gnd.)	_____	_____	_____
Cooling Type (OA,OA/FA, etc) :	_____	_____	_____
Temperature Rise Rating	_____	_____	_____
Rated Voltage	_____	_____	_____
BIL	_____	_____	_____
Available Taps (% of rating)	_____	_____	_____
Load Tap Changer? (Y or N)	_____	_____	_____
Tap Settings	_____	_____	_____
IMPEDANCE	H-X	H-Y	X-Y
Percent	_____	_____	_____
MVA Base	_____	_____	_____
Tested Taps	_____	_____	_____
WINDING RESISTANCE	H	X	Y
Ohms	_____	_____	_____

CURRENT TRANSFORMER RATIOS

**RULE 21 EXPORTING GENERATING FACILITY
INTERCONNECTION REQUEST**

H_____ X_____ Y_____ N_____

PERCENT EXCITING CURRENT 100 % Voltage; _____ 110% Voltage_____

Supply copy of nameplate and manufacturer's test report when available.