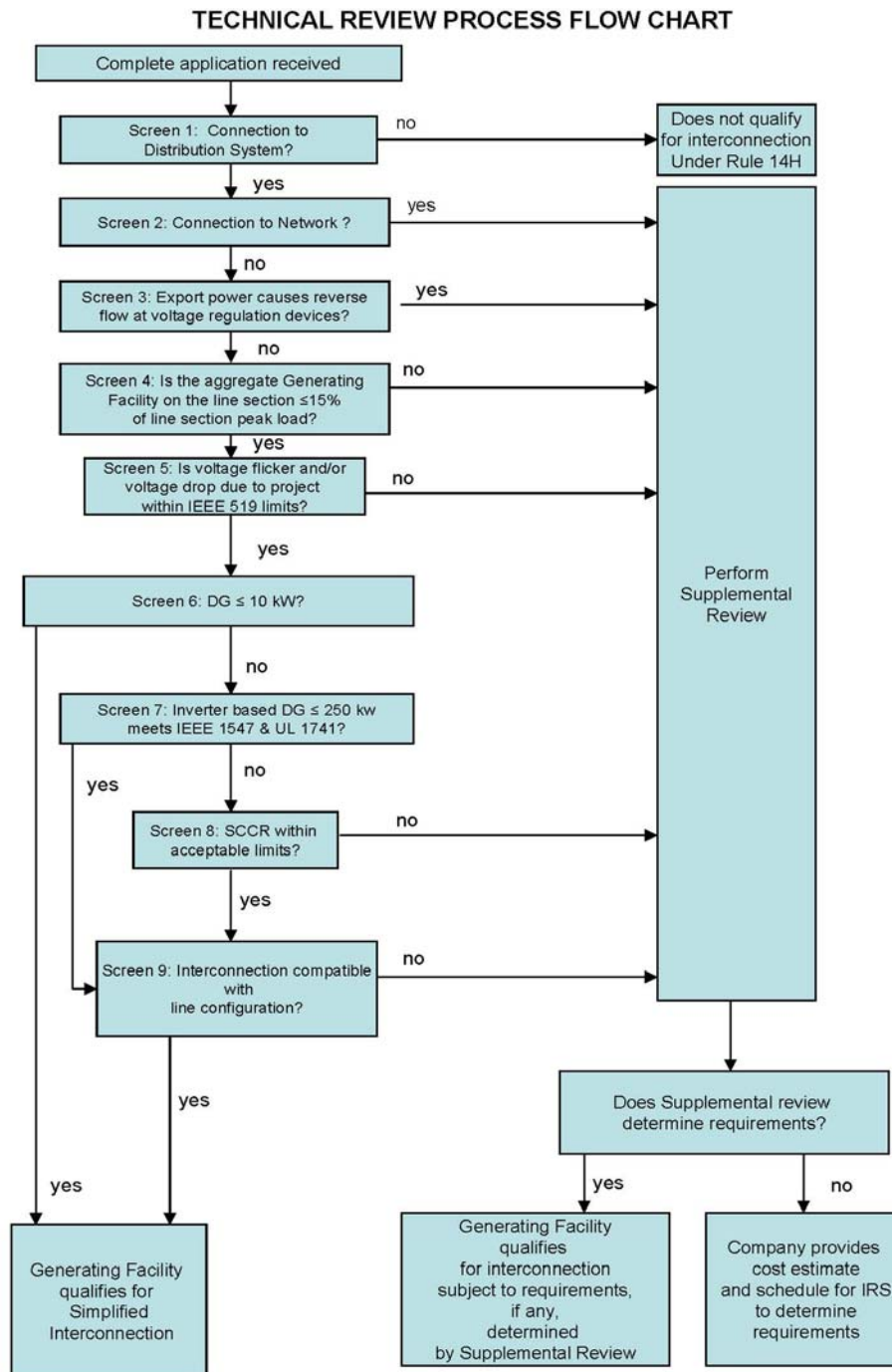


2. **Initial Technical Review**

- a. The following flowchart provides, for illustrative purposes, the major steps in the Initial Technical Review process:



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- b. Explanation of the screens used in the Initial Technical Review process:

Introduction:

This Initial Technical Review process allows for the timely approval for the interconnection of Generating Facilities to the Company's Distribution System that will operate in parallel with the Company's Distribution System. The Initial Technical Review process includes a screening to determine if a Generating Facility qualifies for Simplified Interconnection, or if Supplemental Review is needed to determine requirements, if any, beyond those of a Simplified Interconnection, or if an Interconnection Requirement Study (IRS) is needed, to determine interconnection requirements.

Note: Failure to pass any screen of the Initial Technical Review process means only that further review is required to determine additional requirements, if any, or if an IRS is needed before the Generating Facility can be approved for interconnection with the Company's Distribution System. It does not mean that the Generating Facility cannot be interconnected. Though not explicitly covered in the review process, the Generation Facility shall be designed to meet all of the applicable requirements in Appendix I of Rule 14H.

Purpose:

This review determines the following:

- 1) If a Generating Facility qualifies for Simplified Interconnection

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- 2) If a Generating Facility can be made to qualify for interconnection by performing a Supplemental Review that will be able to determine additional requirements, if any, or
- 3) If an IRS is required, the cost estimates and rough schedule for performing the IRS.

Screen 1: Is the Point of Interconnection to a Distribution System?

If Yes, continue to Screen 2.

If No, the Generating Facility does not qualify for Simplified Interconnection and may not interconnect under Rule 14H.

Significance: Rule 14H only applies to Customer requests to interconnect a Generating Facility to the Company's Distribution System.

Screen 2: Is the Point of Interconnection to a Network System?

If Yes, perform Supplemental Review.

If No, continue to Screen 3.

Significance: Special considerations must be given to Generating Facilities proposed to be installed on a Network System because of the design and operational aspects of network protectors. There are no such considerations for radial Distribution Systems.

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Screen 3 If exporting power across the Point of Interconnection, can the power export cause a reversal of power flow at any voltage regulation device that is not bi-directional?

If Yes, perform Supplemental Review.

If No, continue to Screen 4.

Significance: If it can be assured that the Generating Facility will not export power, or if exported power will not cause a reversal of power flow at a voltage regulation device that is not designed to handle reverse power flow, the Company's Distribution System does not need to be studied for load-carrying capability or Generating Facility power flow effects on the Company's voltage regulators.

Screen 4: Is the aggregate Generating Facility capacity on the Line Section less than or equal to 15% of Line Section peak load?

If Yes, continue to Screen 5.

If No, perform Supplemental Review to determine cumulative impact on Line Section.

Significance: 1) Low penetration of Generating Facility installations will have a minimal impact on the operation and load restoration efforts of the Company's Distribution System.
2) The operating requirements for a high penetration of Generating Facilities may be different since the impact on the Company's Distribution System will no longer be minimal, therefore requiring additional study or controls.

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Screen 5: Is the voltage flicker and/or drops associated with the Generating Facility within IEEE 519 or IEEE 1453 limits?

If Yes, continue to Screen 6.

If No, perform Supplemental Review.

Significance: 1) This screen addresses potential voltage fluctuation problems for Generating Facilities that start by motoring.

2) When starting, Generating Facilities should have minimal impact on the service voltage to other Customers.

3) This screen addresses voltage flicker at the Point of Interconnection caused by the Generating Facility. Passing this screen does not relieve the Customer from ensuring that its Generating Facility complies with the flicker requirements of Rule 14H.

Screen 6: Is the gross rating of the Generating Facility 10 kW or less?

If Yes, the Generating Facility qualifies for Simplified Interconnection. Skip remaining screens.

If No, continue to Screen 7.

Significance: The Generating Facility will have a minimal impact on fault current levels and any potential line over-voltages from loss of the Company's Distribution System neutral grounding.

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Screen 7: Is the Generating Facility inverter-based and 250 kW or less and does it meet IEEE 1547 and UL 1741 standards?

If Yes, continue to Screen 9.

If No, continue to Screen 8.

Significance: Inverter-based generating facilities less than 250 kW interconnecting through inverters that meet UL 1741, or latest version (the Standard for Inverters, Converters, Controllers and Interconnection System Equipment for use with Distributed Energy Resources) and IEEE 1547, or latest version (the IEEE Standard for Interconnecting Distribution Resources with Electric Power Systems) have minimal impact to the short circuit currents. Self excited synchronous generators present more interconnection issues.

Screen 8: Is the Short Circuit Current Contribution Ratio within acceptable limits?

If Yes, continue to Screen 9.

If No, perform Supplemental Review.

The Short Circuit Current Contribution Ratio consists of two criteria; both of which must be met when applicable:

- 1) When measured at primary side (high side) of a Dedicated Distribution Transformer serving a Generating Facility, the sum of the short circuit contribution ratios of all generating facilities connected to the Company's Distribution System circuit that serves the Generating Facility must be less than or equal to 0.1 (10%), *and*
 - 2) When measured at the secondary side (low side) of a shared distribution transformer, the short circuit contribution of the proposed Generating Facility
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must be less than or equal to 2.5% of the interrupting rating of the Customer's service equipment.

Significance: If the Generating Facility passes this screen it can be expected that it will have no significant impact on the Company's Distribution System's short circuit duty, fault detection sensitivity, relay coordination or fuse-saving schemes.

Note: The ampere rating of the Customer's service equipment to be used in this evaluation will be that rating for which the customer's utility service was originally sized or for which an upgrade has been approved. It is not the intent of this provision to allow increased export simply by increasing the size of the customer's service panel, without separate approval for the resize.

Screen 9: Is the Line Configuration Screen (see below) acceptable for Simplified Interconnection?

If Yes, the Generating Facility qualifies for Simplified Interconnection.

If No, perform Supplemental Review.

Line Configuration Screen: Identify primary distribution line configuration that will serve the Generating Facility. Based on the type of interconnection to be used for the Generating Facility, determine from the table below if the proposed Generating Facility passes the screen.

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Table I

Primary Distribution Line Type Configuration	Type of Interconnection to be Made to Primary Distribution Line	Results/Criteria
Three-phase, three wire	Any type	Pass Screen
Three-phase, four wire	Single-phase, line-to-neutral	Pass Screen
Three-phase, four wire (For any line that has such a section OR mixed three wire and four wire)	All others	To pass, aggregate Generating Facility nameplate rating must be less than or equal to 10% of Line Section peak load

Significance: If the primary distribution line serving the Generating Facility is of a “three-wire” configuration, or if the Generating Facility’s distribution transformer is single-phase and connected in a line-to-neutral configuration, then there is no concern about overvoltages to the Company’s or other Customer’s equipment caused by loss of system neutral grounding during the operating time of the non-islanding protective function.

- c. Within fifteen (15) business days of the date the Customer’s Interconnection Application is deemed complete, the Company will complete the Initial Technical Review. The Company, for good cause, may modify the time limits to conduct the Initial Technical Review and shall inform the Customer in writing of the need to modify the applicable

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time limits. The modified time limit shall be mutually agreed upon in writing between the Company and the Customer.

- d. The Initial Technical Review will result in the Company providing either: (a) if all of the Initial Technical Review Screens are passed, the Generating Facility qualifies for Simplified Interconnection, and an executable interconnection agreement for the Customer's signature; or, (b) if one or more screens are not passed, notification that Supplemental Review will be required and the results, in writing, of all Initial Technical Review screenings.

3. Supplemental Review

- a. If a Generating Facility has failed to meet one or more of the Initial Technical Review screens for Simplified Interconnection as proposed, the Company will notify the Customer and perform a Supplemental Review as described in this section. The intent of the Supplemental Review is to provide a slightly more detailed review of only the conditions that cause the Generating Facility to fail the Initial Technical Review.
- b. If Supplemental Review is required, the Customer shall notify the Company, in writing, to proceed with the Supplemental Review, or the Customer shall agree to withdraw the Interconnection Application. If the Customer does not notify the Company within fifteen (15) business days, the Interconnection Application shall be deemed to be withdrawn.
- c. The Supplemental Review shall be completed, absent any extraordinary circumstances, within twenty (20) business days of receipt of the Customer's approval, in writing, to proceed with the Supplemental Review. The Company, for good cause, without

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