



# Application of July 2018 SIR updated screens: Industry Feedback

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# Screen A: Is the PCC on a Networked Secondary System?

- No Specific feedback on this screen

## Screen B: Is Certified Equipment Used?

- Certain utilities have failed projects on with the screen. Upon further review of the DPS approved list, this screen has been passed.
  - Ideally the additional back and forth would not be needed, or allowance to use UL Certification.
- Industry requests that units are consistent and shown in MVA / kVA

# Screen C: Is the Electric Power System (EPS) Rating Exceeded?

- Intended to be based on physical limitations of the equipment. Occasionally this has been based on minimum load.
- Presence of a recloser or voltage regulator should not be an automatic fail.
- Industry requests that screens should include information to support the evaluation:
  - Voltage and rating at PCC
  - Equipment Rating Table:

**Equipment Rating Table:**

Equipment	Voltage (kV)	Line	Pole	Rating (kVA)	Exist. & Que. Gen.	Remaining Capacity	Proposed IPP	Pass/Fail
3P_560A_RECLOSER	4.8	1936	B	3,492	45	3,447	5,000	FAIL
3P_600A_SWITCH	4.8	1936	B	3,741	45	3,696	5,000	FAIL
3P_4/OCU (PHASE)	4.8	1936	B	2,463	45	2,418	5,000	FAIL
3P_477AL (PHASE)	4.8	SUB	SUB	3,772	45	3,727	5,000	FAIL
3P_2-438A_REGULATORS	4.8	SUB	SUB	2,905	45	2,860	5,000	FAIL
3P_SUBSTATION_XFMR	4.8	SUB	SUB	7,031	69	6,962	5,000	PASS

# Screen D: Is the Line and Grounding Configuration Compatible with the Interconnection Type

- Interpretation of language ‘Line Section’ to conform with other SIR instances of “line sections bounded by automatic sectionalizing device”.
- Continued uncertainty from the Industry about the intended use of screen D.
- Industry requests that screens should include information to support the evaluation:
  - Define the line section that fails the 10% Peak Load

# Screen E: Simplified Penetration Test

- Industry requests that screens should include information to support the evaluation:
  - Annual peak load at substation breaker
  - Annual peak load most at constrained line section

# Screen F: Is Feeder Capacity Adequate for Individual and Aggregate DER?

- The stiffness ratio should be calculated using the following inputs:
  - Short Circuit Capacity including existing and proposed DER short circuit contributions
  - Aggregated and proposed DER rating
  - Line to Line Fault Power instead of Line to Ground
- Developers request that the following data gets added to the results of Screen F:
  - Feeder available Short Circuit Capacity at the medium voltage PCC (MVA)
  - Summary of calculations (see sample below):

## Screen F: Is Feeder Capacity Adequate for Individual and Aggregate DER?

Is the feeder available short circuit capacity at the medium voltage PCC, divided by the rating of the individual DER, greater than 25? Is the feeder available short circuit capacity at the substation divided by the capacity all aggregate DG on the feeder, greater than 25?

- DER Size: 0.339 MVA
- Line to Ground Fault Power at PCC: 30 MVA
- Line to Ground Fault Power at Substation: 162 MVA
- Stiffness Factor at PCC: 88.5
- Stiffness Factor at Substation: 164.81

Do both stiffness factor tests (PCC and Substation) pass?

- Yes - Screen F Passes

# THANK YOU

## Next Steps and Follow Up