



CENTERPOINT ENERGY
NEW/EXISTING TRANSMISSION CUSTOMERS
TECHNICAL EVALUATION OF LOAD INTERCONNECTION REQUESTS

Obtain the following data from the customer:

Date Submitted

Type of interconnection study requested: (Choose from the following)

New Load Customer

Existing Customer Adding Load

Customer Information:

Customer/Company:

Street Address:

City, State Zip:

Contact Name:

Contact Phone Number:

Contact Email:

Substation Information: (Provide address for substation site, if known)

Street Address:

City, State Zip:

General location of customer's new/additional load: (Attach a sketch for the site)

Study Information:

*Values in blue are calculated

Planned in-service date for new load:

Amount of load increase or new load: MVA p.f. MW*

Requested study completion date (12 weeks min.):

- a.** Select one of the following types of interconnection substation customer intends to build. See attachment B for various substation configurations.

Figure 1: "Loop-Tap" Alternative 'a' Diagram

Figure 2: "Loop-Tap" Alternative 'b' Diagram

Figure 3: "Full-Loop" Alternative 'a' Diagram

Figure 4: "Full-Loop" Alternative 'b' Diagram

Figure 5: "Full-Loop" Alternative 'c' Diagram

Figure 6: "Plant Internal "Loop" Lines Diagram

- b.** Amount of transmission or distribution load transferred from existing substation to new location, if any, MVA p.f. MW*
- c.** Peak load at the existing sub, if any, MVA p.f. MW* Note: Existing and transferred load is included in the TOTAL load below
- d.** Amount of self-serve generation at existing sub, if any MW and amount of self-serve load MVA p.f. MW*
- e.** Amount of self-serve generation at new substation, if any, MW, and amount of self-serve load MVA p.f. MW*
- f.** Provide the new/additional expected substation load growth per year (MVA, p.f.) Provide p.f. as measured at the transmission voltage (high side) delivery point (≥ 0.95 p.f. is required) *Values in blue are calculated

Year	Month	Load (MVA)	P.F.	TOTAL Load at Substation			
				MVA*	MW*	MVAr*	P.F.

g. Load profile (annual load variation, summer/winter peaking, day/night peaking)

h. Load characteristics (i.e., large motor, lighting, etc.)

Data for Motor Starting Study

Instructions: Fill in each row completely.
(NEC 430-7(b) Locked Rotor Code Letter or
Locked Rotor Current must be supplied.)

Table 430.7(B) Locked-Rotor Indicating Code Letters

Code Letter	Kilovolt-Amperes per Horsepower with Locked Rotor	Code Letter	Kilovolt-Amperes per Horsepower with Locked Rotor	Code Letter	Kilovolt-Amperes per Horsepower with Locked Rotor
A	0-3.14	H	6.3-7.09	P	12.5-13.99
B	3.15-3.54	J	7.1-7.99	R	14.0-15.99
C	3.55-3.99	K	8.0-8.99	S	16.0-17.99
D	4.0-4.49	L	9.0-9.99	T	18.0-19.99
E	4.5-4.99	M	10.0-11.19	U	20.0-22.39
F	5.0-5.59	N	11.2-12.49	V	22.4 and up
G	5.6-6.29				

Induction Motor Data

Motor #	Motor Type	Starting Method	HP	Voltage (kV)	Code	Locked Rotor (Amps)	# of Starts	Per Period
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								

Synchronous Motor Data

Motor #	Motor Type	Starting Method	HP	Voltage (kV)	Code	Locked Rotor (Amps)	# of Starts	Per Period
1								
2								
3								
4								
5								

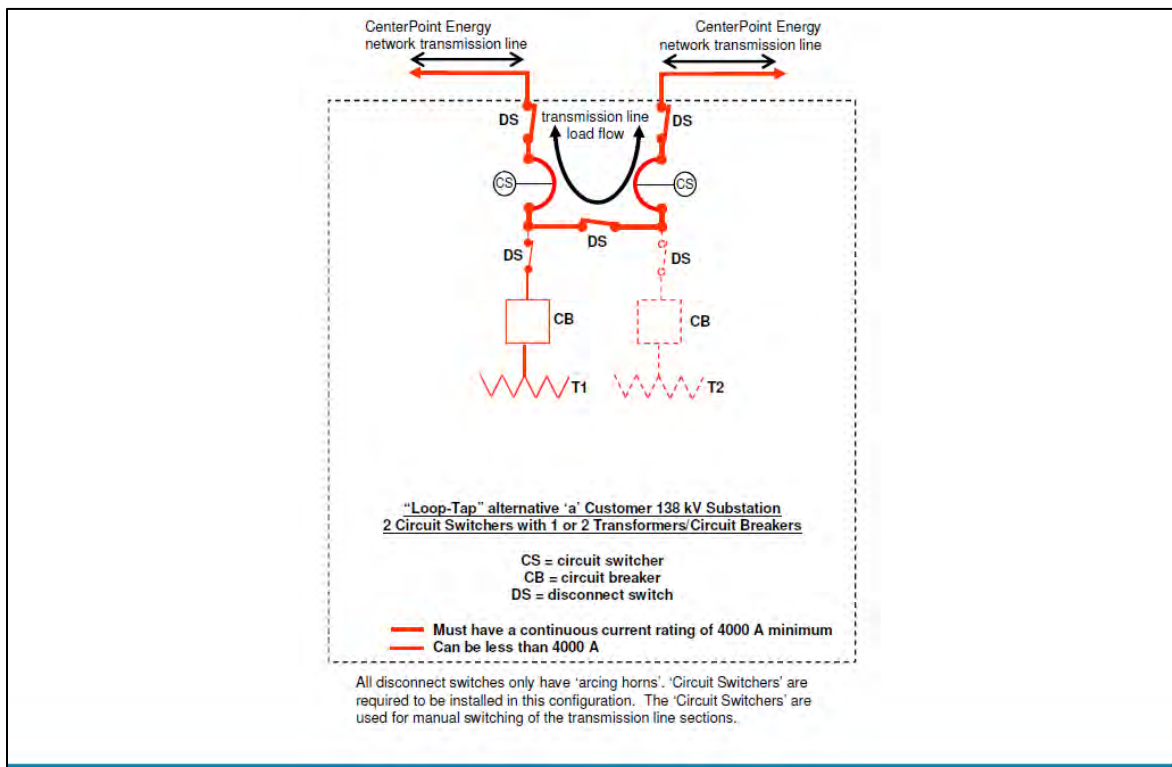


Figure 1: "Loop-Tap" Alternative 'a' Diagram

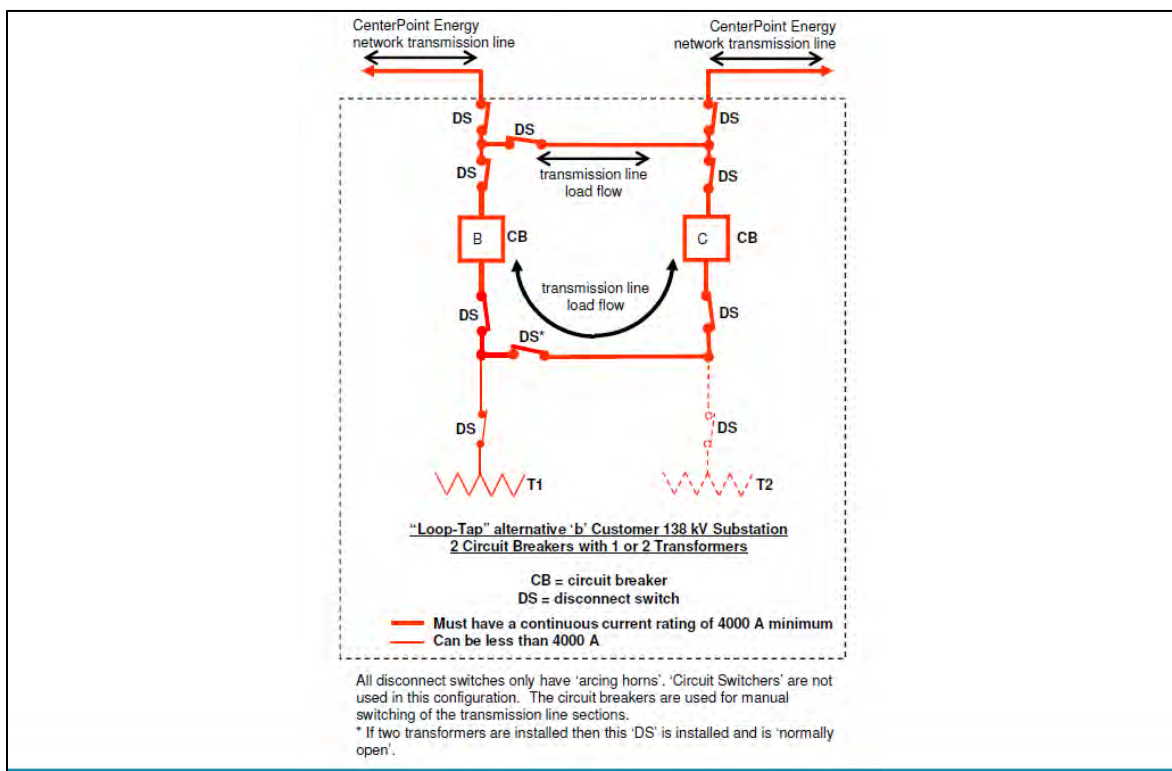


Figure 2: "Loop-Tap" Alternative 'b' Diagram

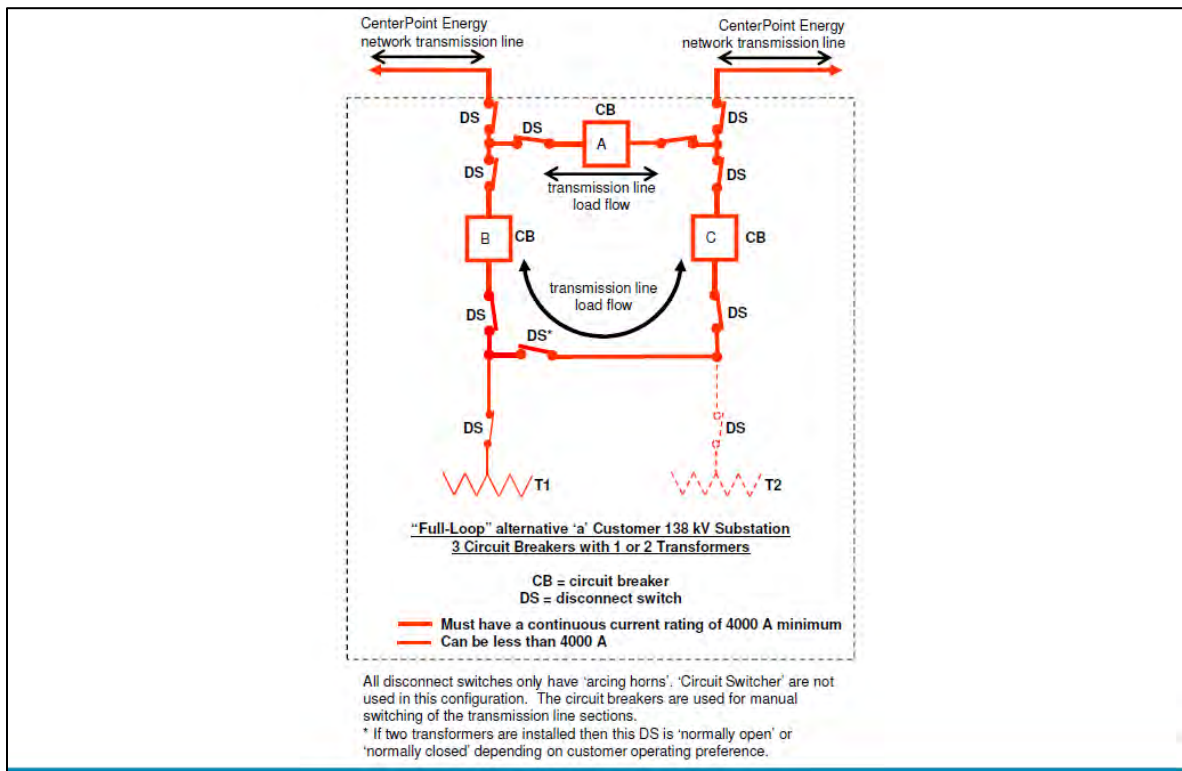


Figure 3: "Full-Loop" Alternative 'a' Diagram

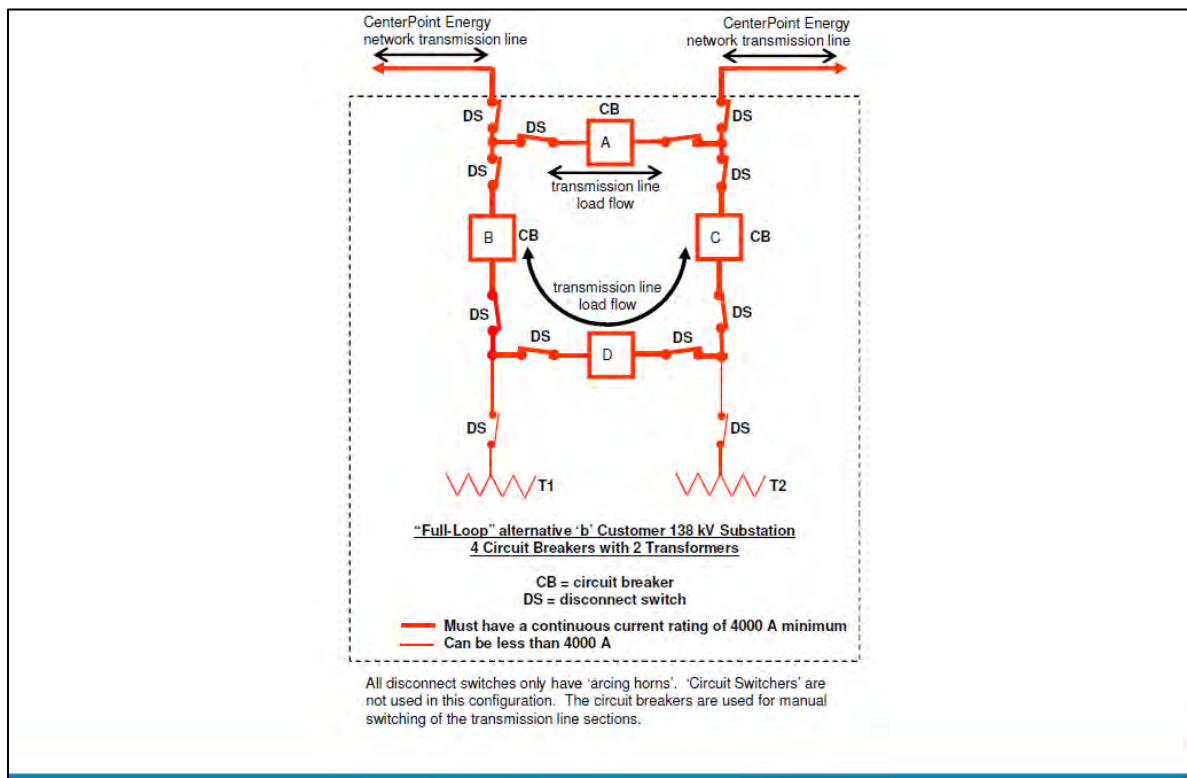


Figure 4: "Full-Loop" Alternative 'b' Diagram

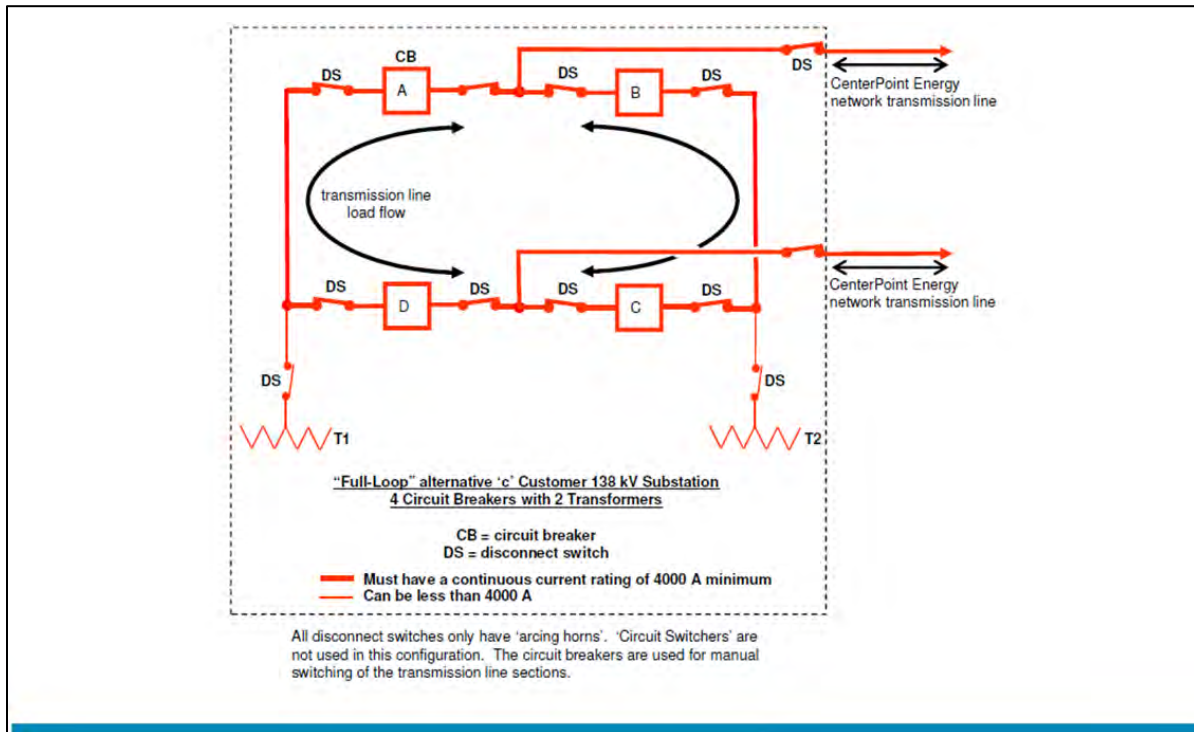


Figure 5: "Full-Loop" Alternative 'c' Diagram

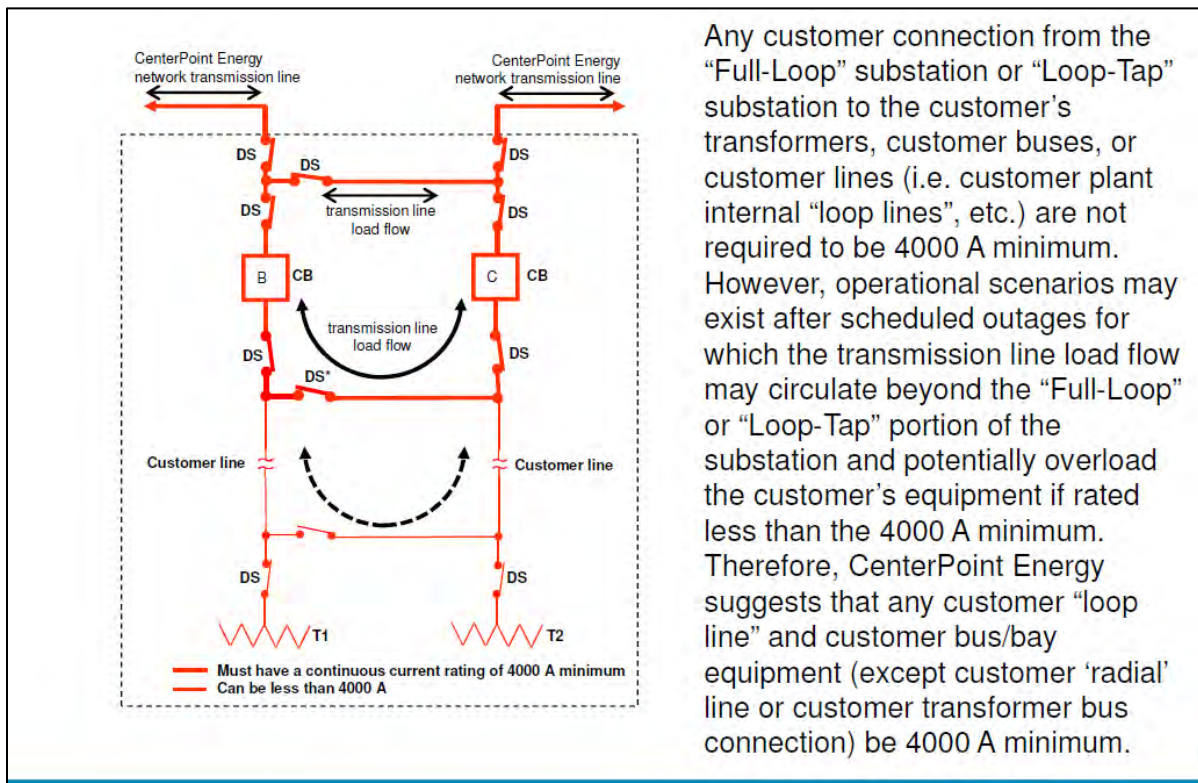


Figure 6: Plant Internal "Loop" Lines Diagram