

**DRAWING NOTES:**

1. One file device shall not be used as the ONLY method of determining disconnecting means. The disconnecting means shall be identified on the equipment (NEC 110.22) and verified by a qualified person before it may be considered de-energized.

2. Data for the system was provided primarily through basic data collection by Beckus Electric. From this data, the system was developed. The system was developed in accordance with the primary goal of performing an arc-flash hazard analysis for the electrical system, so some system information, such as detailed load data, was not included.

Reduction studies were modeled on a aggregate horsepower basis using the NEC full load current tables for motors or 100% of the up-stream thermal protective device to provide an approximation of the expected fault contribution.

Motors fed from adjustable frequency drives (AFDs) do not contribute short circuit current back into the power system and therefore have no impact on the arc-flash energy level.

Continuous loads were modeled based on 80% of the up-stream trip device or an equal percentage of 80% of the up-stream trip device for a group of continuous loads.

Panels loads were modeled on 80% of the main or up-stream trip device or an equal percentage of 80% of the up-stream trip device for a group of panels.

**PREFIXES & ABBREVIATIONS KEY**

AC	Air conditioning
BAT	Battery
BRG	Breaker
CD	Conductors
CAP	Capacitor
CB	Circuit breaker
CHG	Charger
CR	Control cabinet
CONV	Converter
CONV	Conveyor
CTRL	Control cabinet
DR	Door
DR	Door heater
DR	Door
EF	Exhaust Fan
EF	Exhaust fan
GFI	Ground fault interrupter
HTR	Heater
M	Motor
MACH	Machine
MAU	Make up air unit
MCB	Main circuit breaker
MCC	Motor control center
MCC	Motor control center
NFS	Non-fusible switch
OH	Overhead
OL	Overload
PL	Panel / Load Center
PMT	Pad-mount transformer
PNL	Panel / Load Center
PP	Power Panel
RBT	Receptacle
RCPT	Receptacle
RTU	Roof top unit
SCR	Soft start
SW	Switch
SW	Switch
SYS	System
UL	Under load
UL	Under load
XFMR	Transformer

