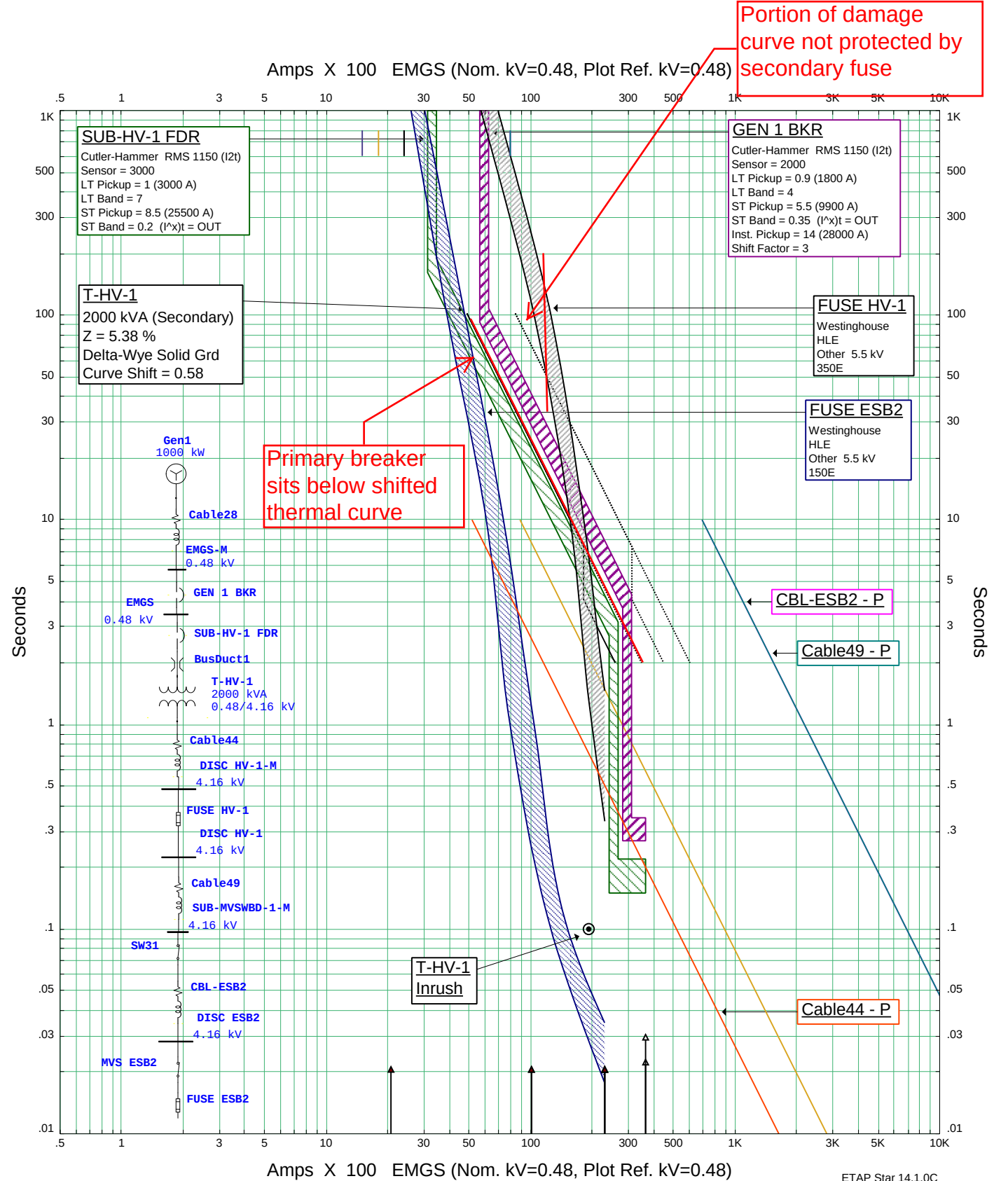
Portion of damage curve not protected by secondary fuse
Amps X 100 EMGS (Nom. kV=0.48, Plot Ref. kV=0.48)
SUB-HV-1 FDR
Cutler-Hammer RMS 1150 (I2t)
Sensor = 3000
LT Pickup = 1 (3000 A)
LT Band = 7
ST Pickup = 8.5 (25500 A)
ST Band = 0.2 (I^x)t = OUT
GEN 1 BKR
Cutler-Hammer RMS 1150 (I2t)
Sensor = 2000
LT Pickup = 0.9 (1800 A)
LT Band = 4
ST Pickup = 5.5 (9900 A)
ST Band = 0.35 (I^x)t = OUT
Inst. Pickup = 14 (28000 A)
Shift Factor = 3
T-HV-1
2000 kVA (Secondary)
Z = 5.38 %
Delta-Wye Solid Grd
Curve Shift = 0.58
FUSE HV-1
Westinghouse
HLE
Other 5.5 kV
350E
FUSE ESB2
Westinghouse
HLE
Other 5.5 kV
150E
Primary breaker sits below shifted thermal curve
Gen1
1000 kW
Cable28
EMGS-M
0.48 kV
GEN 1 BKR
EMGS
0.48 kV
SUB-HV-1 FDR
BusDuct1
T-HV-1
2000 kVA
0.48/4.16 kV
Cable44
DISC HV-1-M
4.16 kV
FUSE HV-1
DISC HV-1
4.16 kV
Cable49
SUB-MVSWBD-1-M
4.16 kV
SW31
CBL-ESB2
DISC ESB2
4.16 kV
MVS ESB2
FUSE ESB2
CBL-ESB2 - P
Cable49 - P
Cable44 - P
T-HV-1
Inrush
Seconds
Seconds
Amps X 100 EMGS (Nom. kV=0.48, Plot Ref. kV=0.48)
ETAP Star 14.1.0C