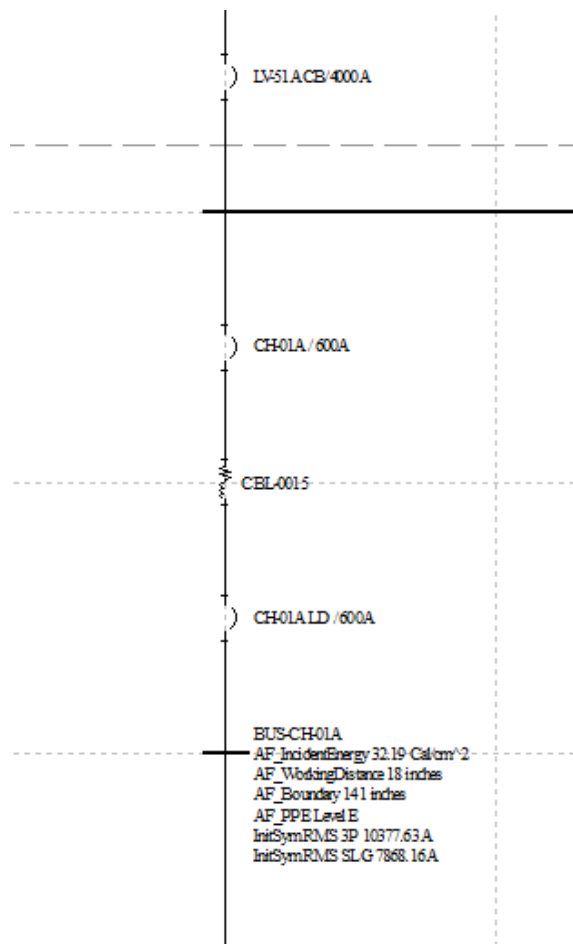
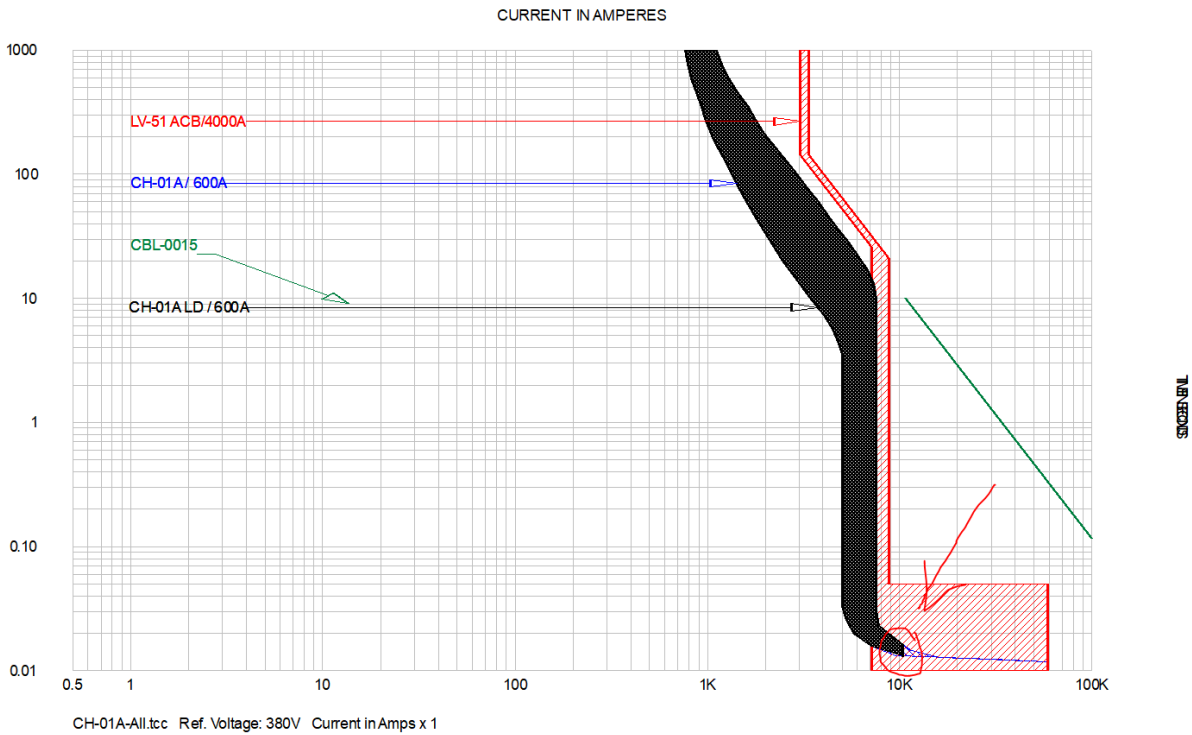


Power Circuit



- The main circuit breaker CH-01A LD / 600A should tripped at 10.38kA as per shown in TCC drawing, which the delay time around 0.015sec.



But, the AF result given as below. The trip delay is 2 sec. And, the 2 sec cause the IE go up to 32.2 cal/cm², which is higher than upstream bus, which only 3.69.

	Bus Name	Protective Device Name	Bus kV	Bus Bolted Fault (kA)	Bus Arcing Fault (kA)	Prot Dev Bolted Fault (kA)	Prot Dev Arcing Fault (kA)	Trip/ Delay Time (sec.)	Breaker Opening Time/Tol (sec.)	Equip Type	Electrode Config	Box Width (in)	Box Height (in)	Box Depth (in)	Altitude (feet)	Gap (mm)	Arc Flash Boundary (in)	Working Distance (in)	Incident Energy (cal/cm ²)	PPE Level / Notes ('N)	Label #	Cable Length From Trip Device (m)
1	BUS-CH-01A	CH-01A LD / 600A	0.38	10.38	7.11	10.38	7.11	2	0.0000	PNL	VCB	12	14	10	0	25	141	18	32.2	Level E ('N9)	# 0006	
2																						
3	BUS-LV51	LV-51 ACB / 4000A	0.38	58.86	28.67	58.86	28.67	0.05	0.0000	PNL	VCB	12	14	10	0	25	36	18	3.70	Level B ('N20a)	# 0006	0.90
4																						
5	BUS-LV52, 53, 54	LV-51 ACB/4000A	0.38	58.75	28.65	58.75	28.65	0.05	0.0000	PNL	VCB	12	14	10	0	25	36	18	3.69	Level B ('N20a)	# 0011	
6																						

- This is my AF setting.

Standard and Unit | Fault Current | Report Options

Report Option

Bus Worst Case Only

PD Line Side PD Load Side

Bus + PD Line Side

Bus + Line Side + Load Side

Color One-line

Bus + PD

Bus

PD

Upstream Mis-Coordination Options

Check Upstream devices for mis-coordination

Upstream Levels to Search:

Mis-Coordination Ratio: %

Line Side + Load Side Fault Contribution Options

Line + Load Sides Line Side Only

Device to Report in Labels and Summary View

Last Trip Device Main Device

Report Options when Equipment Evaluation Failed

Report IE/PPE Show Equip Eval Notes

As Overduty w/o Label Exclude Failed Devices

As Overduty with Label

Device Fail to Operate, Use Upstream Devices

All Mains None Specified in devices

Cleared Fault Threshold: % of Total

Default Label # Prefix:

Use Maintenance Mode function for main device

Report PPE Level Report PPE Others

Increase PPE Level by 1 for high marginal IE

Report Function Name for multiple functions

Append bus description to bus name

Report Additional User Notes

For VCB, also run VCB, report Worst IE/FB

For HCB, also run VCB+VCBB, report Worst IE/FB

Exclude DC Bus <= 100V

PPE Table... Scenarios... Add IE +WD... Electric Shock Approach Boundary Glove Class... Equip Default... Report Data and Order...

OK Cancel Help

Component Editor

Component Subviews:

- Protective Device
- Settings
- Arc Flash
- Reliability Data
- Notes and Links
- User-Defined Fields
- Datablock

Scenario Manager...

Go To Jump...

CH-01A LD / 600A

Expand Shrink

Name: In Service

Ex Equi Eval Ex Coord Eval Data State:

Protective Device Library - Thermal Magnetic Molded Case

LSIS METASOL MCCB 100-800AS, IEC Product Do Not Size

Max Device Volts: 690 Phase

Series Rating: kA Series Rating Test X/R:

Arc Flash Options

Include in Line Side Fail to Operate Exclude from Calc

Connection

	Connected	Protected
From:	CBL-0015	CBL-0015
To:	BUS-CH-01A	BUS-CH-01A