

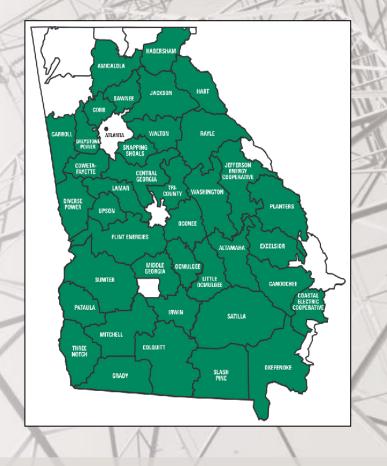
PQ Dashboard User's Group Meeting

April 21, 2022 – WebEx



About Georgia Transmission Corporation (GTC)

- Transmission-only, not-for-profit cooperative
- Formed in March 1997 from the restructuring of Oglethorpe Power Corporation (OPC)
- GTC provides network transmission service to 38 Member EMCs in Georgia
- GTC provides point-to-point service to other customers





GTC PQ Dashboard Overview

- GTC DFR Assets Stations with DFRs owned by GTC (95 DFRs)
- GPC DFR Assets Stations with DFRs owned by Georgia Power Company (135 DFRs)
- GTC PQMeter Assets Stations with Power Quality Meters owned by GTC (44 PQMs)
- Fault Trace Tool (FTT) tied into the PQ Dashboard
- TrenDAP Coming 2022



Power Quality Dashboard 2022 Goals:

- Add Calculated Cause Code
 - Also correlate with FTT Lightning
- Replace map background with GTC GIS
- Add button to turn Heat Map on/off
- Testing of OpenXDA 3.0 upgrade



Power Quality Monitors 2022 Goals:

Elspec trending data brought into TrenDAP



Fault Trace Tool Update:

- Updates in 2021
 - Fault Indicators
- Updates in 2022:
 - Open Source
 - EMC Lightning Viewer



Sun 6/20/2021 1:02 AM

PQDashboard@gasoc.com

Fault detected on BAY CREEK - MOON RD 115KV LINE (00003399

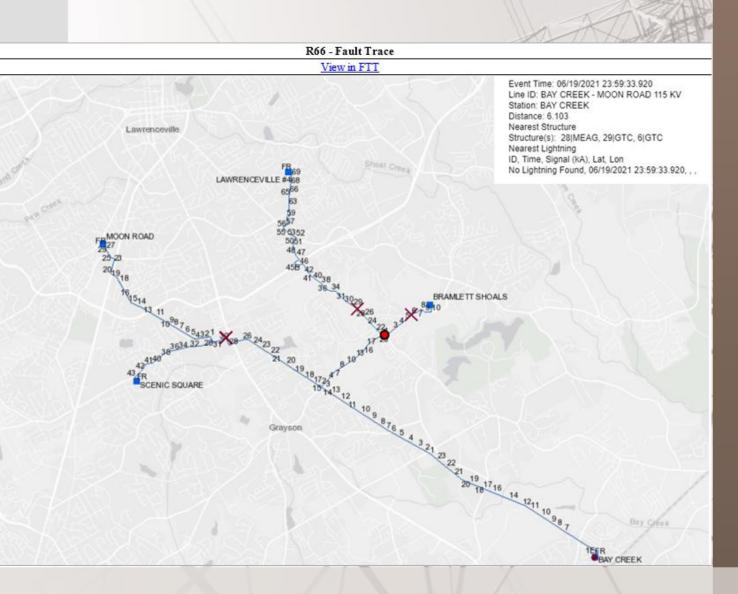
<u>Fault 1</u> - 2021-06-19 23:59:33.9208333

DFRs: R66 at Bay Creek triggered at 23:59:33.7614583 (click for way

Files: 210619,235933921,-2t,BAY CREEK (GTC) 230_115KV,USI_2

Line: BAY CREEK - MOON RD 115KV LINE (8.71 miles)

	Bay Creek - R66
Fault Type:	AN
Inception Time:	23:59:33.9208333
Fault Duration:	66.042 msec (3.96 cycles)
Fault Current:	5768.1 Amps (RMS)
Prefault Current:	4.7 Amps (RMS)
Postfault Current:	16.4 Amps (RMS)
Distance Method:	Takagi
Single-ended Distance:	6.103 miles
Is Breaker Restrike?:	No
Short file name:	R66F2280.dat
openXDA Event ID:	1576313





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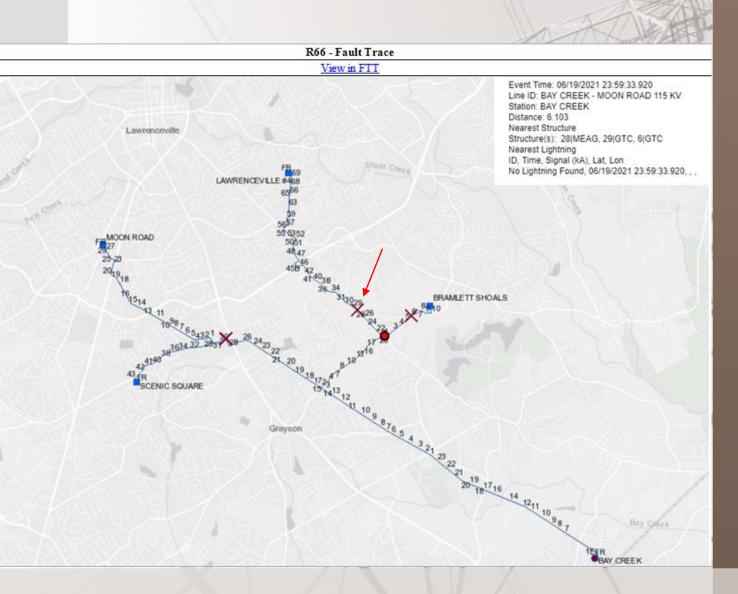
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Fault Trace Tool:

- Coming tools in 2022:
 - Date/time picker
 - Enhanced address search
 - Lightning search by clicking on map
 - Print/email capability
 - Line switch display
 - Automatic double ended fault location

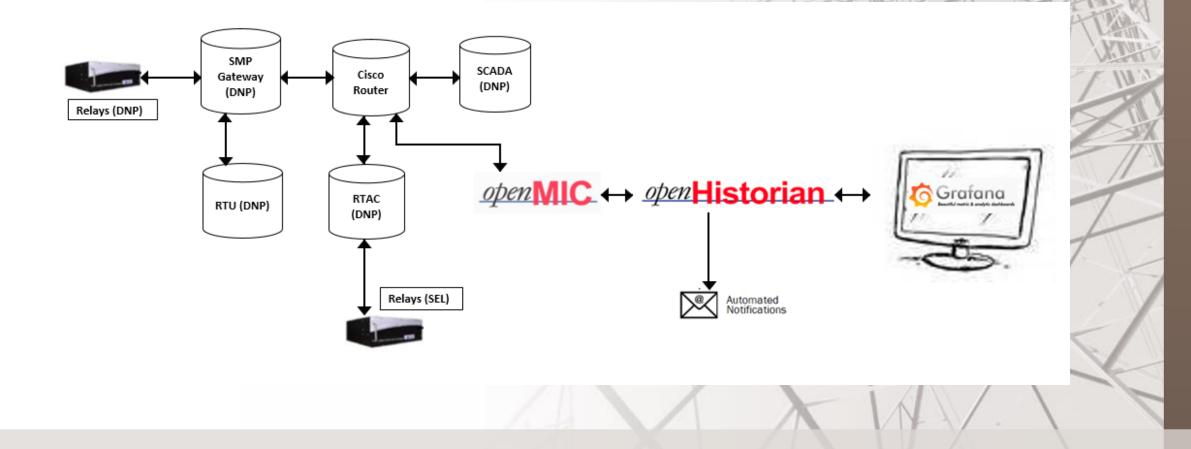


EDDC Project Goals:

- Alert engineering to research equipment issues
- Creation of conditional maintenance work orders
- Feed an Asset Health Program



EDDC Flowchart:





EDDC 2022 Goals:

- Set up email alarms for bushing monitors and DGA monitors – In progress
- Bring distribution pilot substation into EDDC Completed
- Pilot of battery project data in EDDC for alarming
- Pilot of capacitor bank monitors in EDDC for alarming



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EDDC Alarm Email Example

Mon 4/11/2022 12:14 PM eddc@gasoc.com EDDC Douglasville Ethane > 150 (Major alarm)

Douglasville Bank A Ethane data point has exceeded 150ppm.

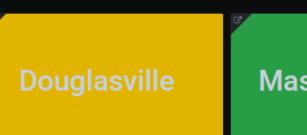
wed 4/6/2022 11:50 AM eddc@gasoc.com EDDC Douglasville Ethane > 65 (Minor Alarm)

Douglasville Bank A Ethane data point has exceeded 65 ppm.



፡፡፡ Stations 🛨 😪

EDDC Dashboard



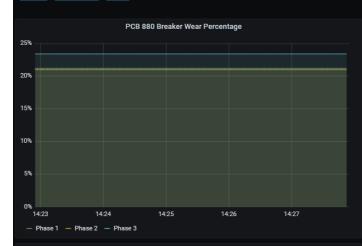
Mason Creek

South Acworth

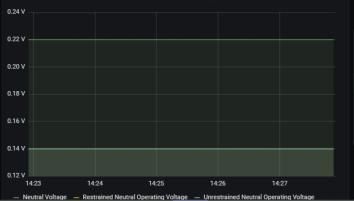


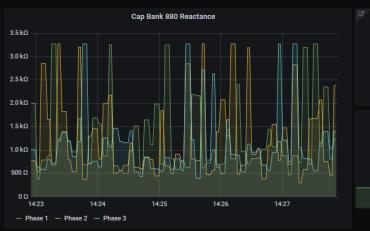
EDDC Dashboard

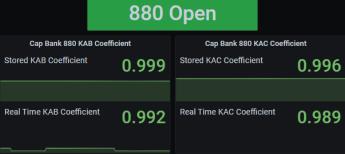
Stations > Mason Creek > Trends



Cap Bank 880 Neutral Voltages



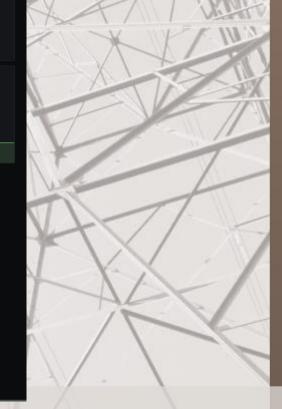




Harmonic Currents

Number of PCB880 Operations

27





Questions?