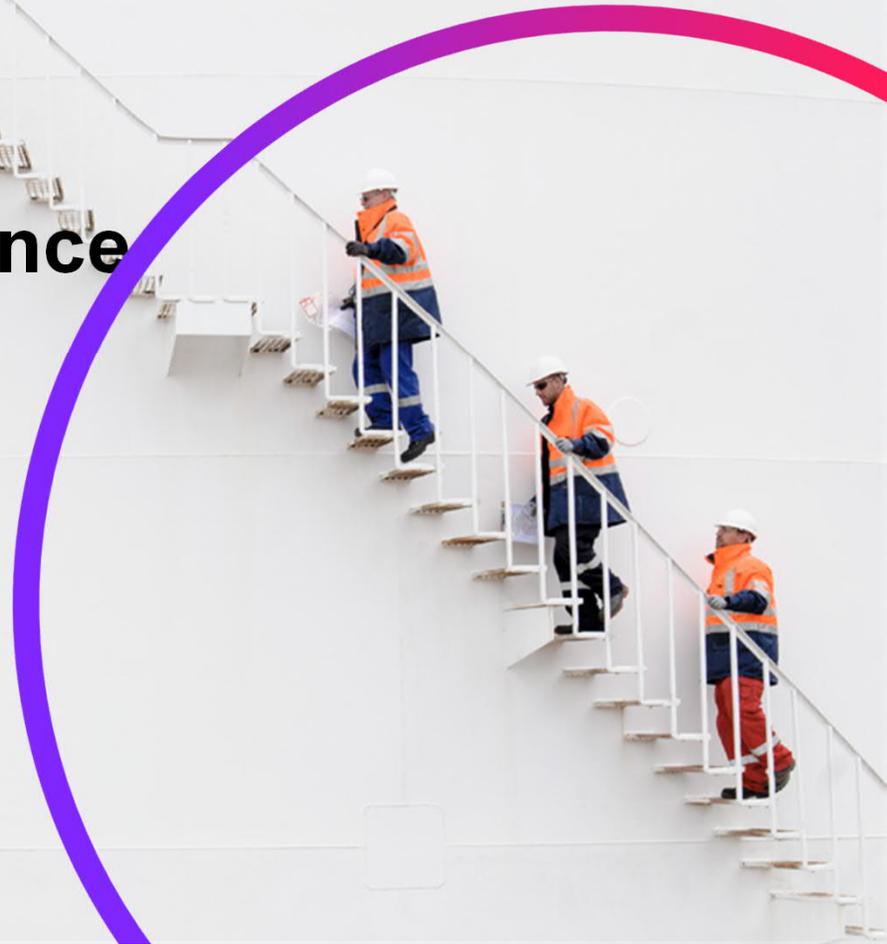


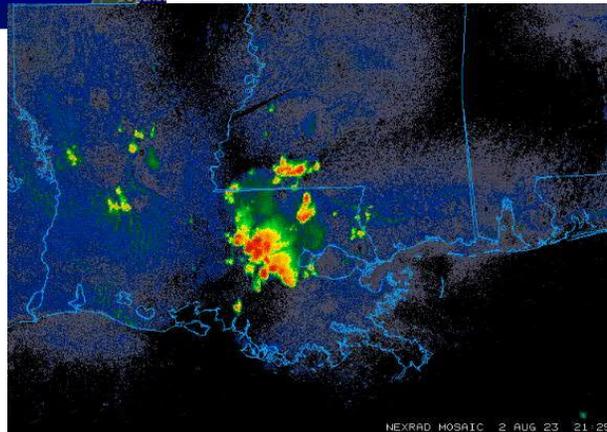
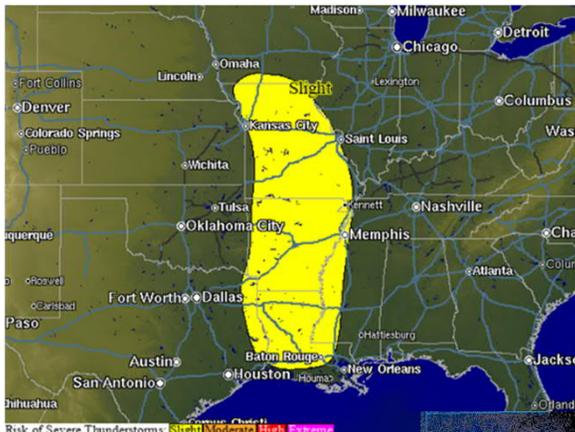


ELA Power Delivery Performance Weather Impact 07/31-08/02 Event



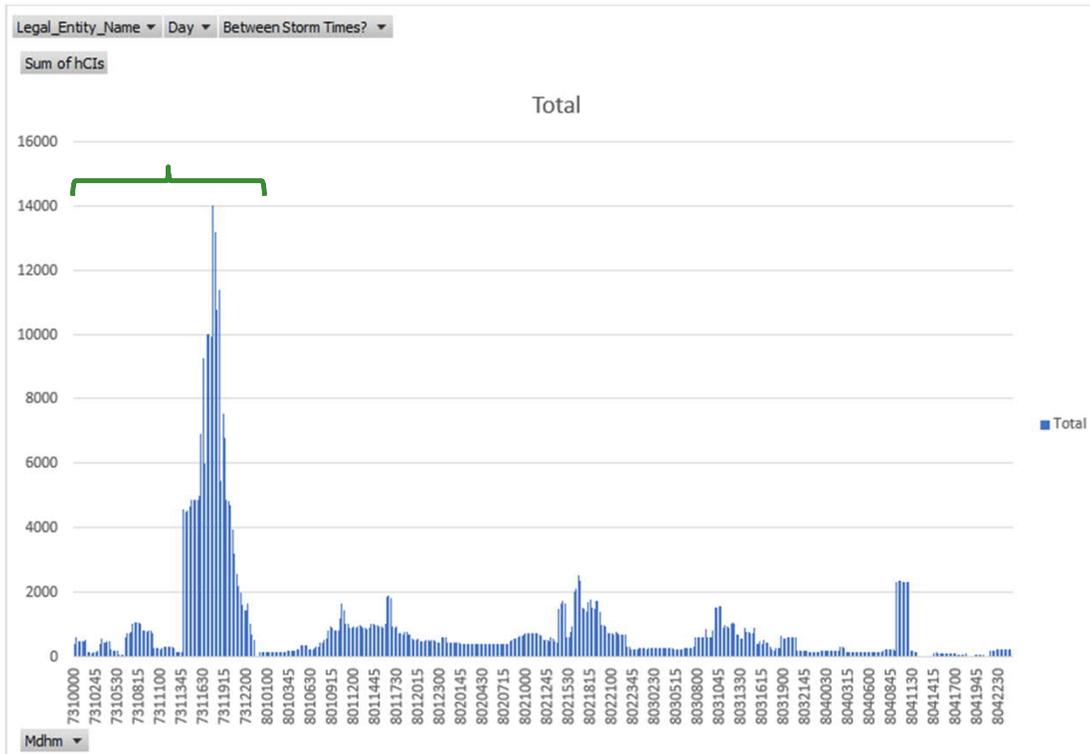
Summary

The following is a summary of the Entergy system performance in areas affected by the weather events on the week of 07/31/23-08/02/23.



- StormWatch Weather Event Update for Entergy:
A cluster of strong storms that was sparked from a disturbance interacting with daytime heating on the 30th pushed southward out of Arkansas. It maintained its intensity as it surged southward and even flared up a bit more as it crossed into Louisiana. There were strong straight-line winds associated with this system.
- Wind and lightning data provided in region-specific slide
 - Strong, straight-line winds
 - Wind gusts up to 56 mph
 - Areas of heavily concentrated lightning
- Approximately 285 additional support personnel were engaged in storm restoration for this event.
 - ~50 linemen/leadership from surrounding regions
 - ~90 Dline Contractors
 - ~115 Vegetation Contractors
 - ~30 Tline contractors

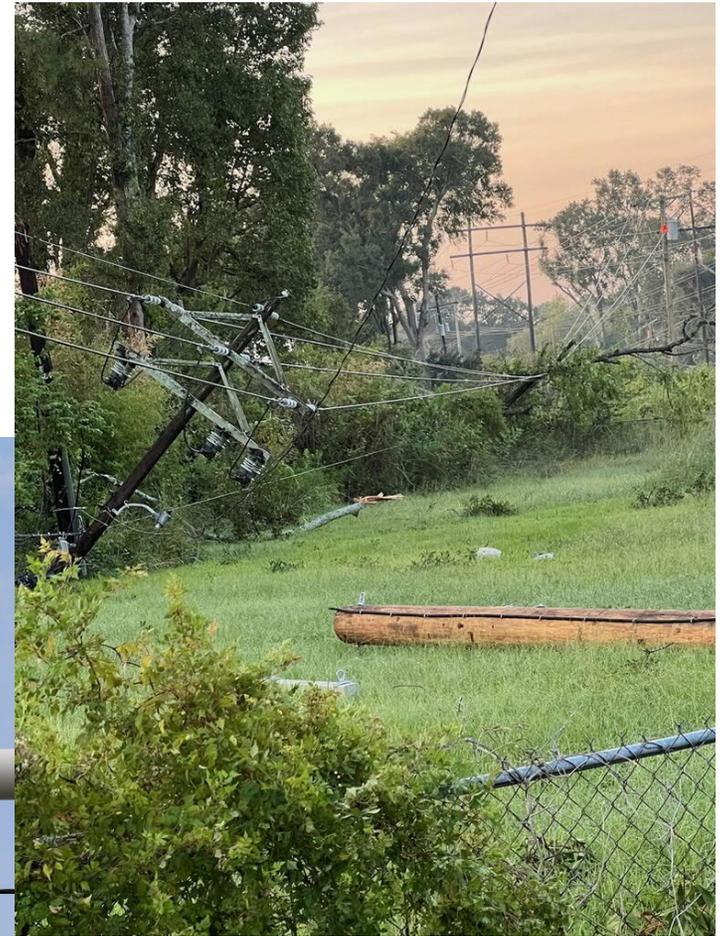
Peak Outage Data



- E-LA Peak Outage total of 14,022 Customers Interrupted at 07/31 around 5:45pm.
- **Over 90%** of customers restored within approximately **4.5 hours**.
- E-LA experienced continuing weather causing additional outages and a second peak of 2,535 Customers Interrupted at 08/02 around 4:45pm.
- Customers were essentially restored by 08/04 around 11:30am.

Distribution Line Outages

- Over 200 outages cases contributing 16,177 CIs.
 - 50% of outages cases attributed to Lightning contributing 5,526 CIs
 - 18% of outages cases attributed to Vegetation contributing 3,938 CIs
 - 17% of outages cases attributed to Equipment Failure contributing 4,812 CIs



Transmission Line Outages

- Two transmission lines sections experienced outages due to wind, lightning, and debris resulting from the storm.
- Until transmission faults were isolated, multiple substations lost their transmission source.
- The Transmission lines were sectionalized, faults isolated and transmission sources to substations restored by 6:45PM on 07/31.
- A limited amount of distribution customers experienced prolonged outage until transmission line structures were rebuilt
- The overall Transmission response took three transmission crews 4 days to restore assets to service.



* Pictured Above - Damaged transmission structures with distribution underbuild

Challenges with restoration

- **Accessibility** The most hard-hit areas were near W. Tams Drive just northwest of Villa Del Rey Elementary School, Sherwood Forest, and the Broadmoor area. All areas have heavy tree canopy with electric equipment positioned in hard-to-access locations in the backyards of homes. This work can be challenging as it can require specialized equipment and utility workers to climb poles manually to make repairs and restore power.
- **Extreme Heat** The temperature and humidity levels during the restoration required the use of Entergy's Heat Stress Management and Hydration Tool. Workers had to account for ambient temperature, humidity, and layers of required PPE clothing to determine the safe work/rest and hydration schedule.
- **Lightning** Entergy's lightning safe-work protocol requires that all personnel seek shelter when lightning is detected within 10 miles of work zone. The on-going weather experienced the week of 07/31-08/02 caused multiple lightning strikes to be detected in nearby areas which challenged continuous workflow.
- **Foreign Debris** – Foreign debris caused by high winds caused damages and extended outages.
- **Vegetation** – trees and tree limbs caused equipment failure and outages.

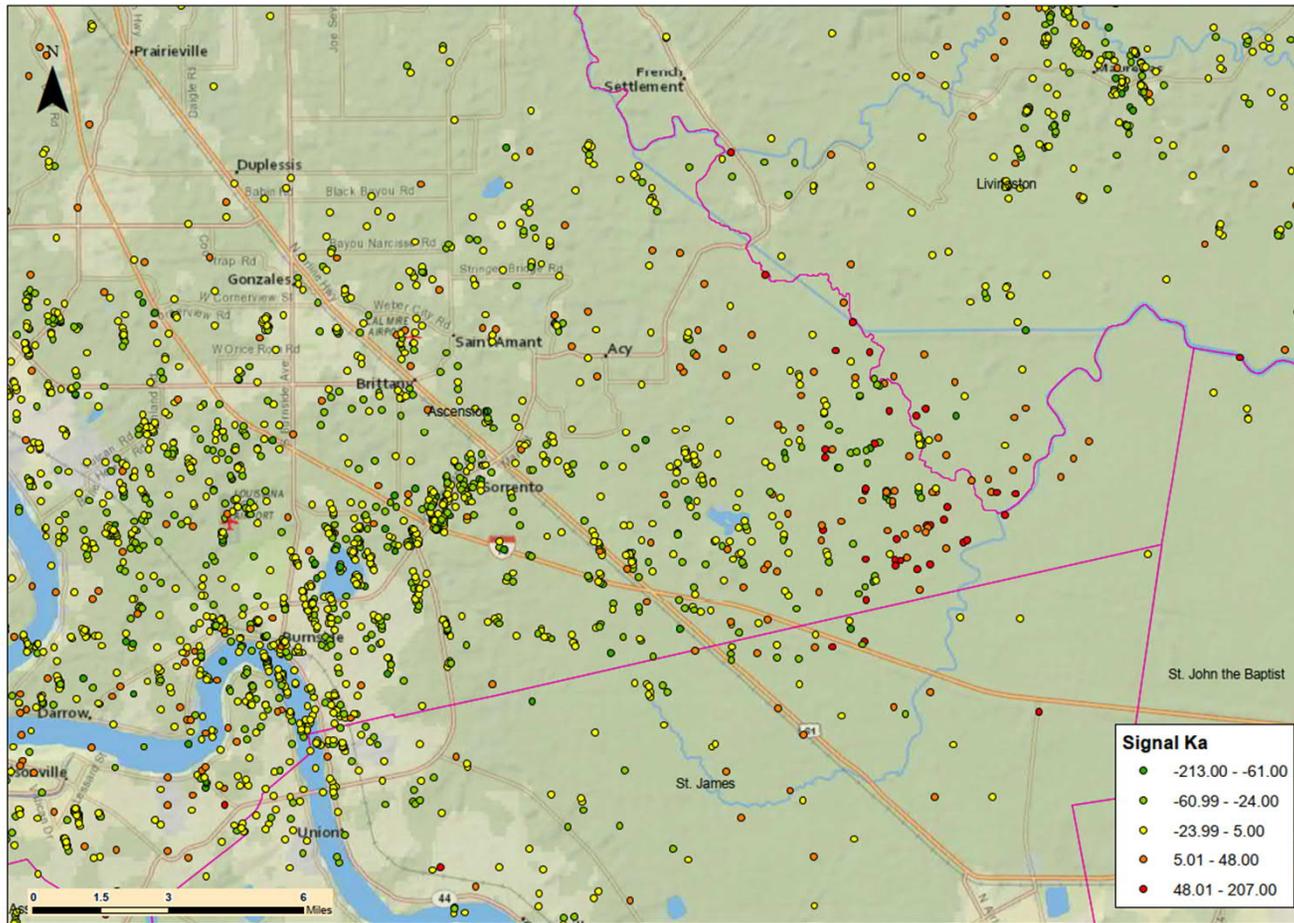


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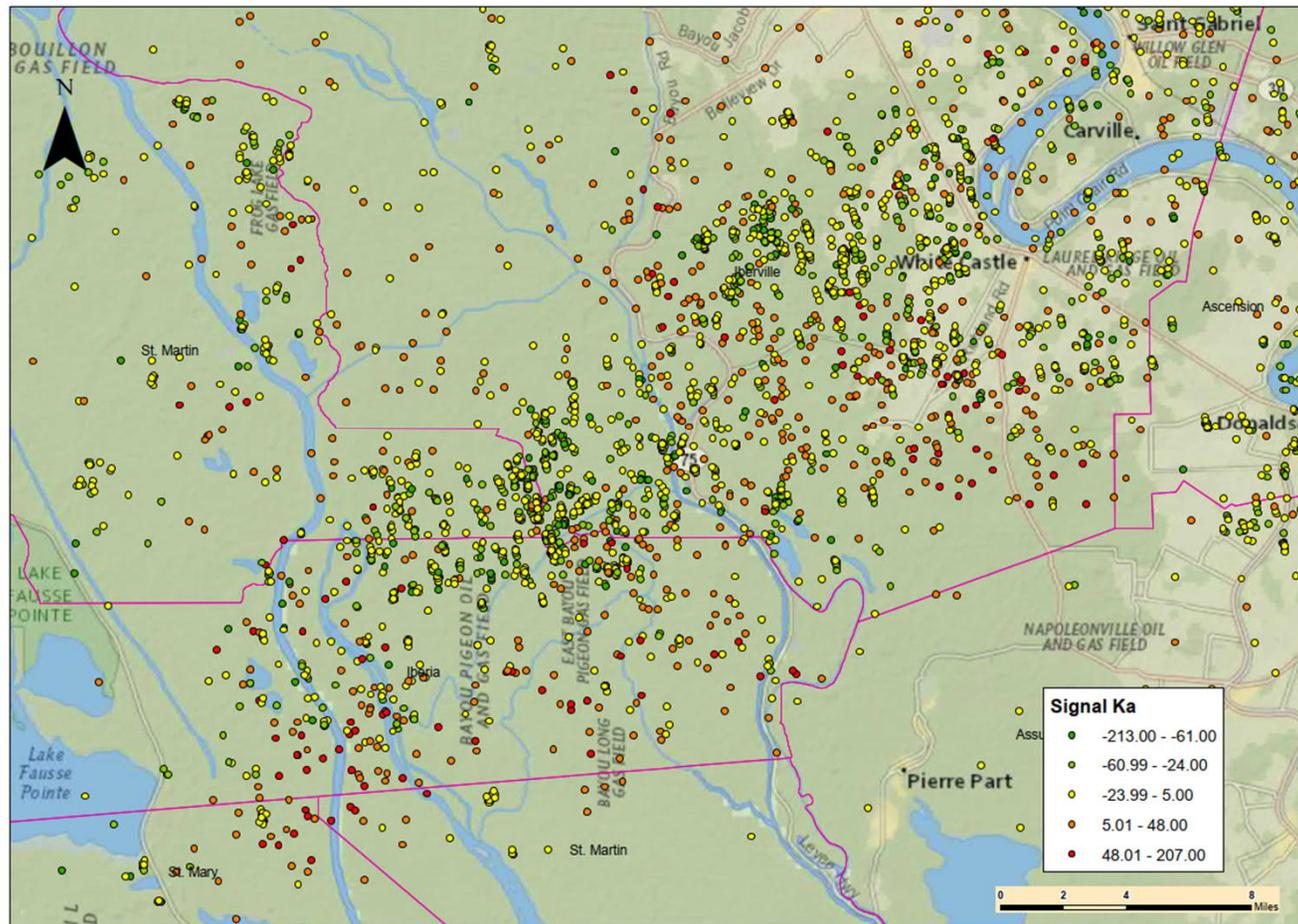
Lightning Activity (Gonzales)

Gonzales Lightning Activity July 31- Aug 2, 2023



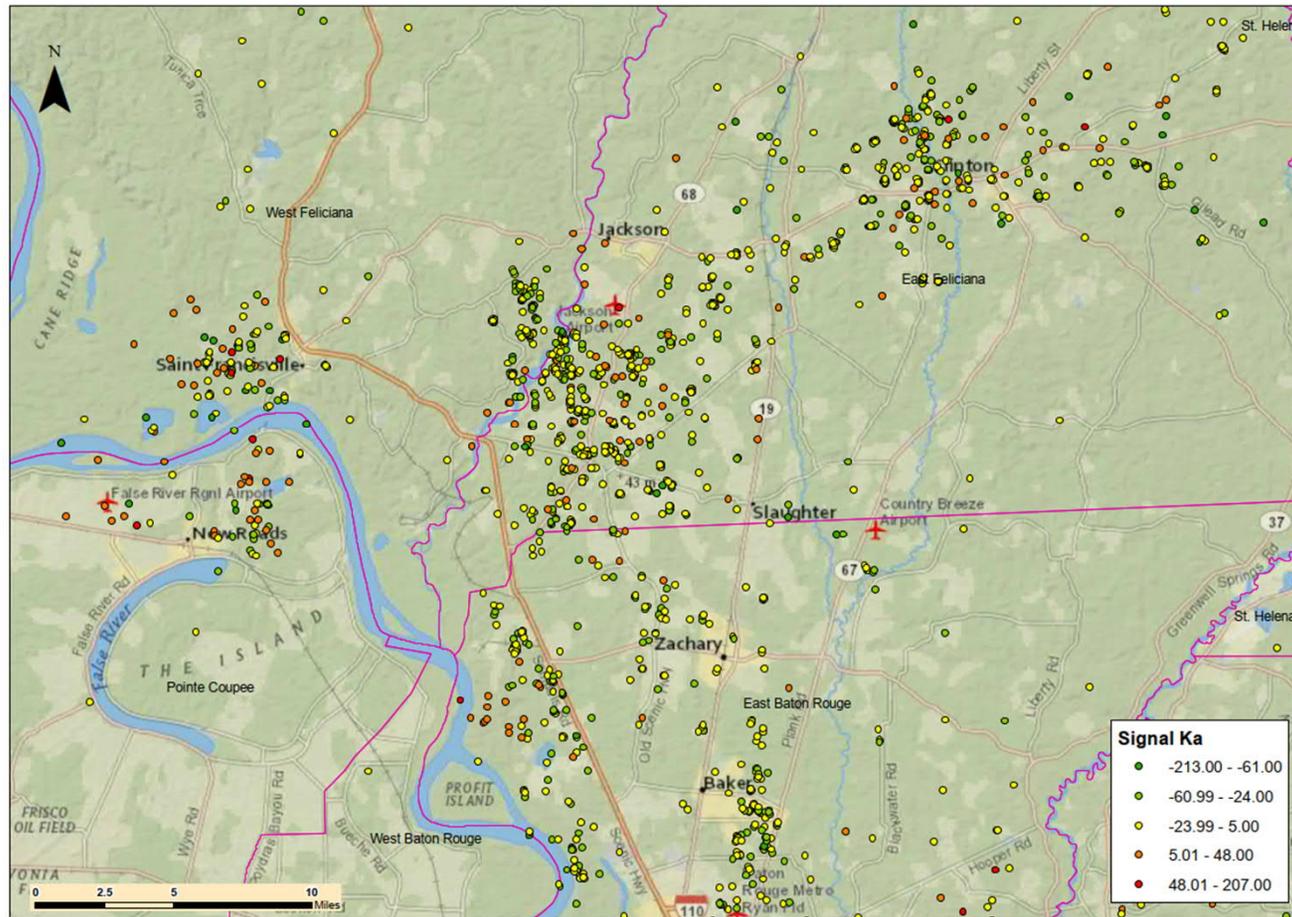
Lightning Activity (White Castle)

White Castle Lightning Activity July 31- Aug 2, 2023



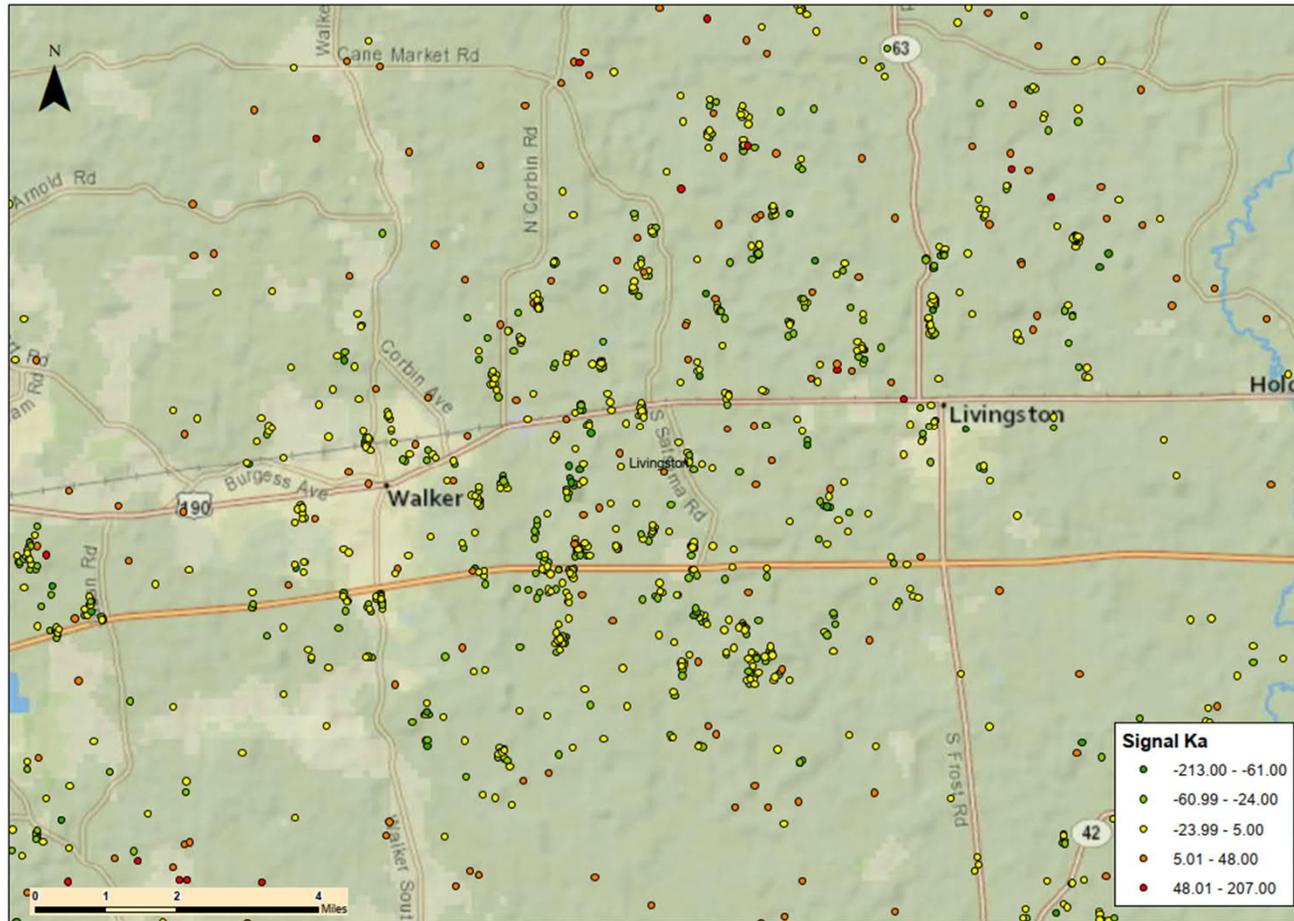
Lightning Activity (St Francisville)

St. Francisville Lightning Activity July 31- Aug 2, 2023



Lightning Activity (Walker)

Walker Lightning Activity July 31- Aug 2, 2023



Additional Picture of Transmission Line Damages

