

### NUG FOOTPRINT: STATEWIDE

#### Birmingham:

306 Transformers & Protectors

23 Line Crew Personnel

8 Engineering & Support Personnel

#### Montgomery:

116 Transformers & Protectors

10 Line Crew Personnel

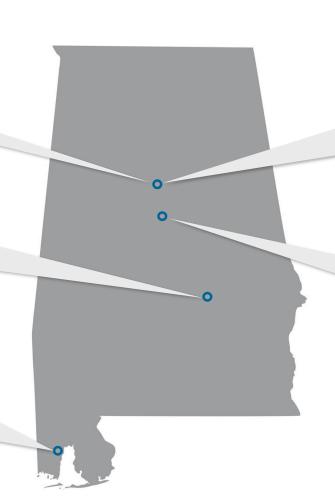
2 Engineering & Support Personnel

#### Mobile:

84 Transformers & Protectors

11 Line Crew Personnel

2 Engineering & Support Personnel



#### Corporate:

Subject Matter Experts
System Planning
GIS Support
Budgeting & Strategy

#### Training:

Subject Matter Experts
Simulation Facilities

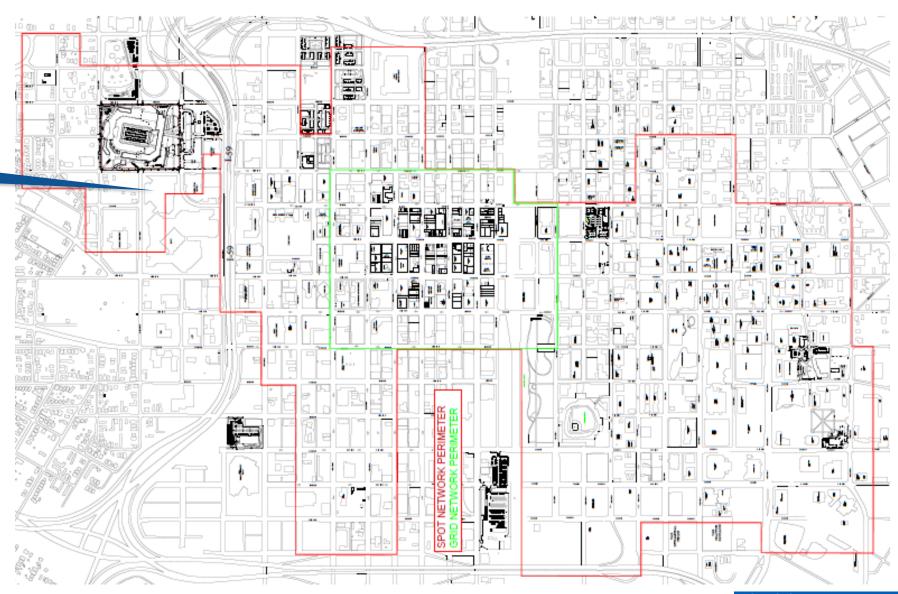




### **NUG FOOTPRINT: BIRMINGHAM**

You Are Here

26 x 15 Blocks78 Circuit-Miles





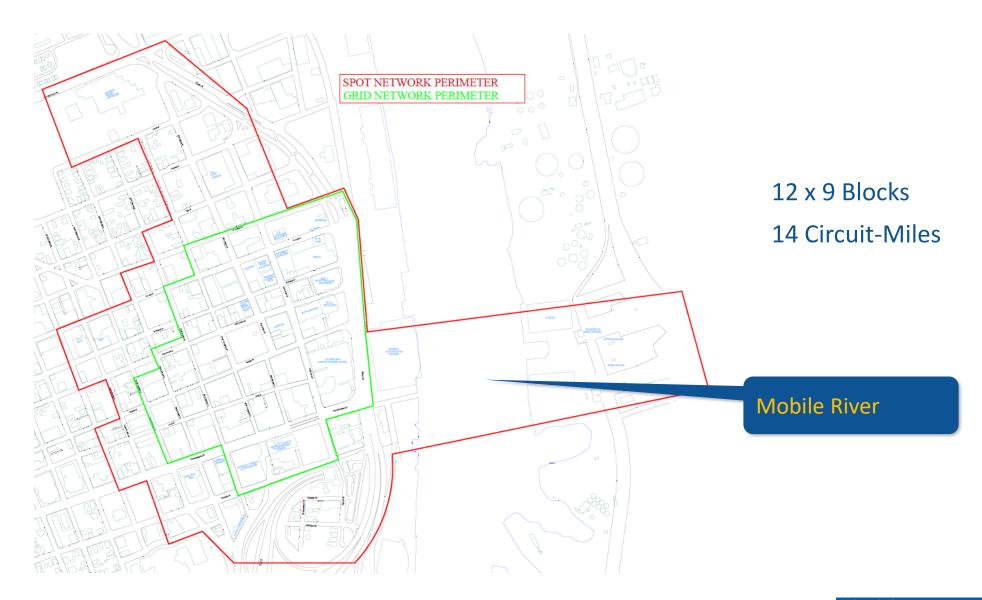


### **NUG FOOTPRINT: MONTGOMERY**

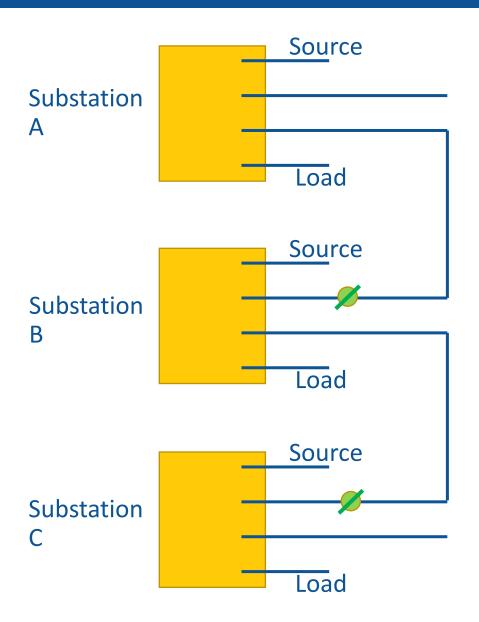




### NUG FOOTPRINT: MOBILE



## NUG UNIQUE FEATURES: FEEDER TIES







### NUG UNIQUE FEATURES: LEAD CABLE REMOVAL

#### **Why**

**PILC Production** 

**Training** 

Capital Investment to Reduce Future O&M

#### **How**

Five-Year Project
Installed 350 & 500 Copper EPR

### **Additional Upgrades**

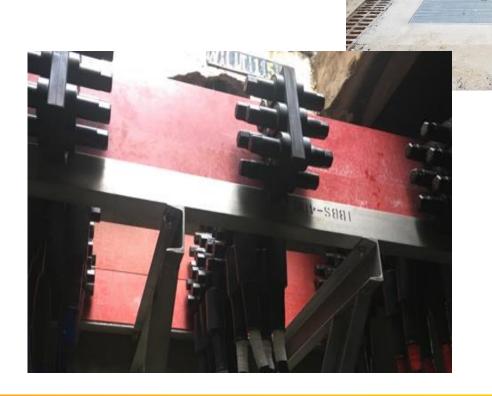
**Duct Banks** 

**Transformers & Protectors** 

**Vault Tops & Grating** 

**Fiber Optic Preparation** 

**Insulated Bus** 



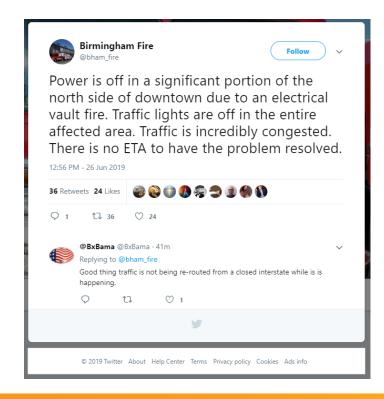


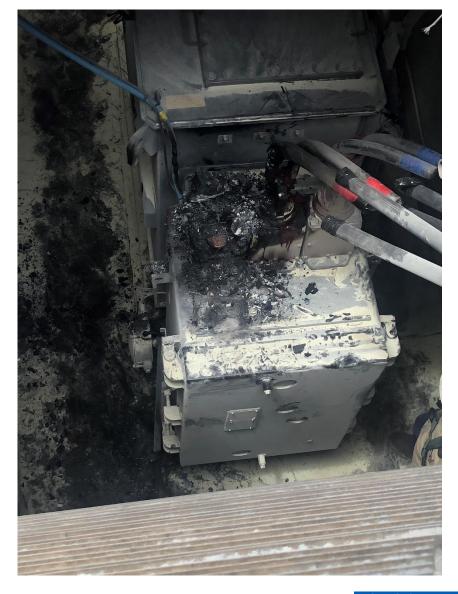


### NUG UNIQUE FEATURES: "THE FIRE"

When: June 27, 2019

What: New transformers, protectors, and cable were energized for the first time. A primary splice failed, and after the feeder locked out, a protector failed to trip, causing a back-feed. Two separate fires began, and the grid had to be deenergized for approximately four hours.









# NUG UNIQUE FEATURES: GIS SUBSTATIONS

### 3 GIS Substations







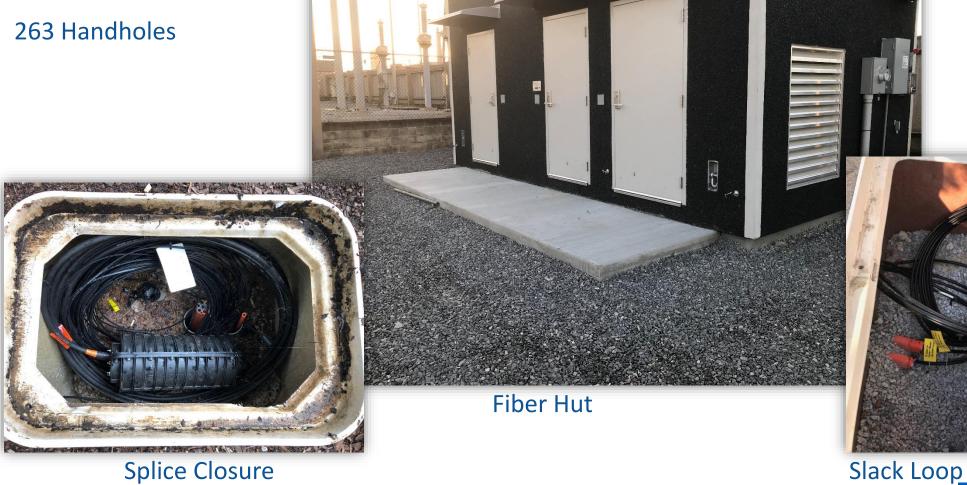




## NUG UNIQUE FEATURES: FIBER OPTIC CABLES

30 Miles Installed

288 Strand Cable



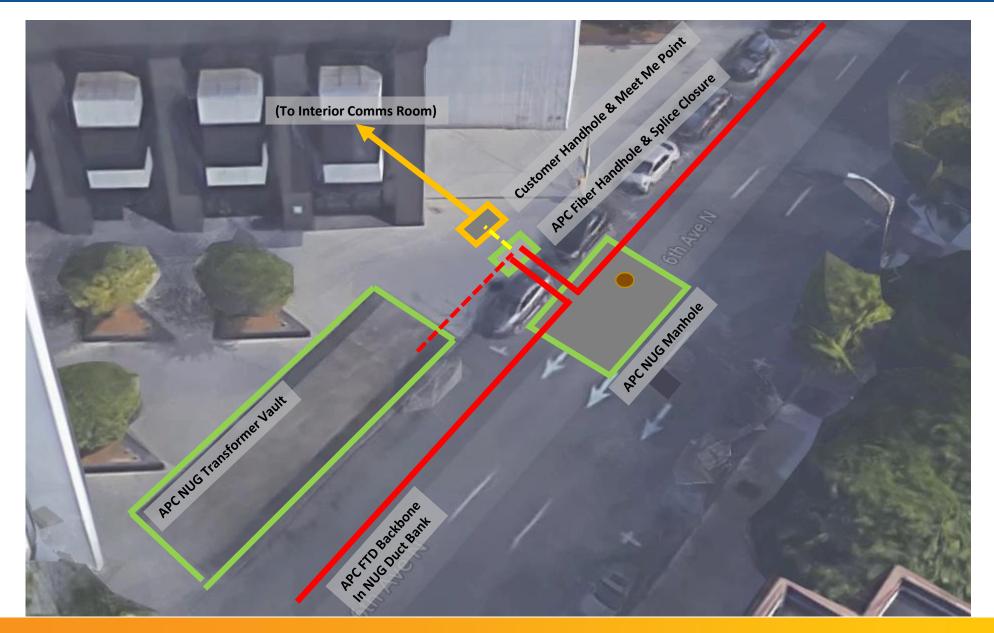
**Splice Closure** 







## NUG UNIQUE FEATURES: FIBER OPTIC CABLES





## NUG UNIQUE FEATURES: FIBER OPTIC COMMUNICATIONS

**GPON Architecture** 

6 OLT

186 ONT

**304 SCADA Devices** 



ONT

**OLT Cabinet** 





# NUG GREATEST ASSET: PEOPLE



SME Stephen Wolbach



Birmingham Supervisor Mark Usry & Nathan Fincher





Birmingham SME Kendall Junkin





## NUG GREATEST ASSET: PEOPLE



Montgomery Team & Supervisor Scott Moore







## NUG GREATEST ASSET: PEOPLE

Birmingham Crew



Birmingham Crew



