GEOSPATIAL WORLD FORUM

TRANSFORMING ECONOMIES IN 5G ERA

The Geospatial Way!

7-9 April 2020 /// Amsterdam

www.geospatialworldforum.org

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Southern Company Operating Area

43,452 Kilometers of Transmission
321,649 Square Kilometers of Area
Southern Company TransView

- Enterprise Level GIS for Four Operating Companies
- Auto-Populates Data from Existing Facility Management Systems
- Fast
  - Economical
  - Easy to Use
Rolta’s Enabling Technology

• Utilizes Rolta’s GeoSpatial Fusion ™ technology and the OnPoint™ engine
• Provides a Common View that is corporately controlled enabling a common base for decision making
• Easy to configure environment for many user groups
• Powerful data integration, search and query capabilities
• Able to communicate with other data management and business systems
• Incorporates BING Maps & ‘Birds Eye View’
TransView High level Architecture

AVL
Location of Substation Maintenance Crews

Substation Access Individuals entering substations

Mobile Substation Locations

Esri / ArcGIS Server

TLDS
Transmission Line Design System

STOMP
Asset Information

Operations TTRS Weather Data
Transmission Line Viewer
## Design

### Attribute | Value
--- | ---
SURVEY NAME | Alexander City-North Auburn 44 kV
SURVEY ID | 2020
SURVEY STATUS | Reviewed/Ready for Design
SURVEY COMPANY | APCO
SURVEY DATE | 1/15/2012 12:00:00 AM
SURVEY SOURCE | Ground Survey
SURVEY TYPE | Update
V. DATUM | NAVD 88
HORIZONTAL | AL_89
CONVENTIONS | NAD 83
ASSOCIATED FILES | Y
SURVEY USED | Y
GROUP NUMBER | 205405
GRID FRAME | ALEXANDER CITY - NORTH AUBURN 44kV
TEMSPR | 4
ATTRIBUTE UPDATE | 1/15/2012 12:00:00 AM
ALIGNMENT UPDATE | 1/15/2012 12:00:00 AM
GEO POSTED | 1/15/2012 12:00:00 AM
DESIGN ID | 2020
DESIGN NUMBER | 205408_3

![Map Image](image_url)
Weather Radar Feeds
Data Management
Transmission Restoration Support

Chain Electric Co.
Dillard Smith Construction Co.
Florida Power & Light
Graves Construction
Henkels & McCoy
Highlines Construction Co.
Irby Construction Company
M. J. Electric, LLC
North Houston Pole Line
PAR Electrical
Pike Electric
Power Secure
Progress Energy Florida
Service Electric
Southeast Power
Sumter Utilities, Inc.
Vice Construction
Air2, LLC
RotorBlade
Rotorworks
Eagle Aviation
Winco, Inc.
Burford’s Tree Co.
Don M. Berry, Inc.
Edmonds Contracting
H&S Welding & Construction
Johnny Smith & Son
RDA Service Company
Russo Corporation
Southside Excavating
Smith Industrial Services
Tate Excavating

SOCO Support: Georgia Power
Gulf Power
Mississippi Power
SCS
Wednesday
April 27, 2011

- Transmission Lines
- Subs
- Subs Damaged/Destroyed
Lessons Learned

• Geospatial Products that are used to support daily Operations become critically important in Emergencies
  – Damage Assessment
  – Crew Assignment
  – Crew Staging
  – Work Tracking

• Enterprise Geospatial Solutions provide a common operational picture that improves communication during system wide outages and damage restoration
Southern Company TransView Vision

• Cradle to Grave
  – Environmental
  – Line Routing
  – Design
  – ROW Acquisition
  – Construction
  – Operation
  – Maintenance
  – Environmental
Southern Company TransView Vision

- Cradle to Grave
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Line Outages Due To Storm

Tornado Path
Damaged Structure
Southern Company TransView Vision

- Cradle to Grave
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Results Count
Questions?