

# SOUTHEASTERN FEDERAL POWER ALLIANCE

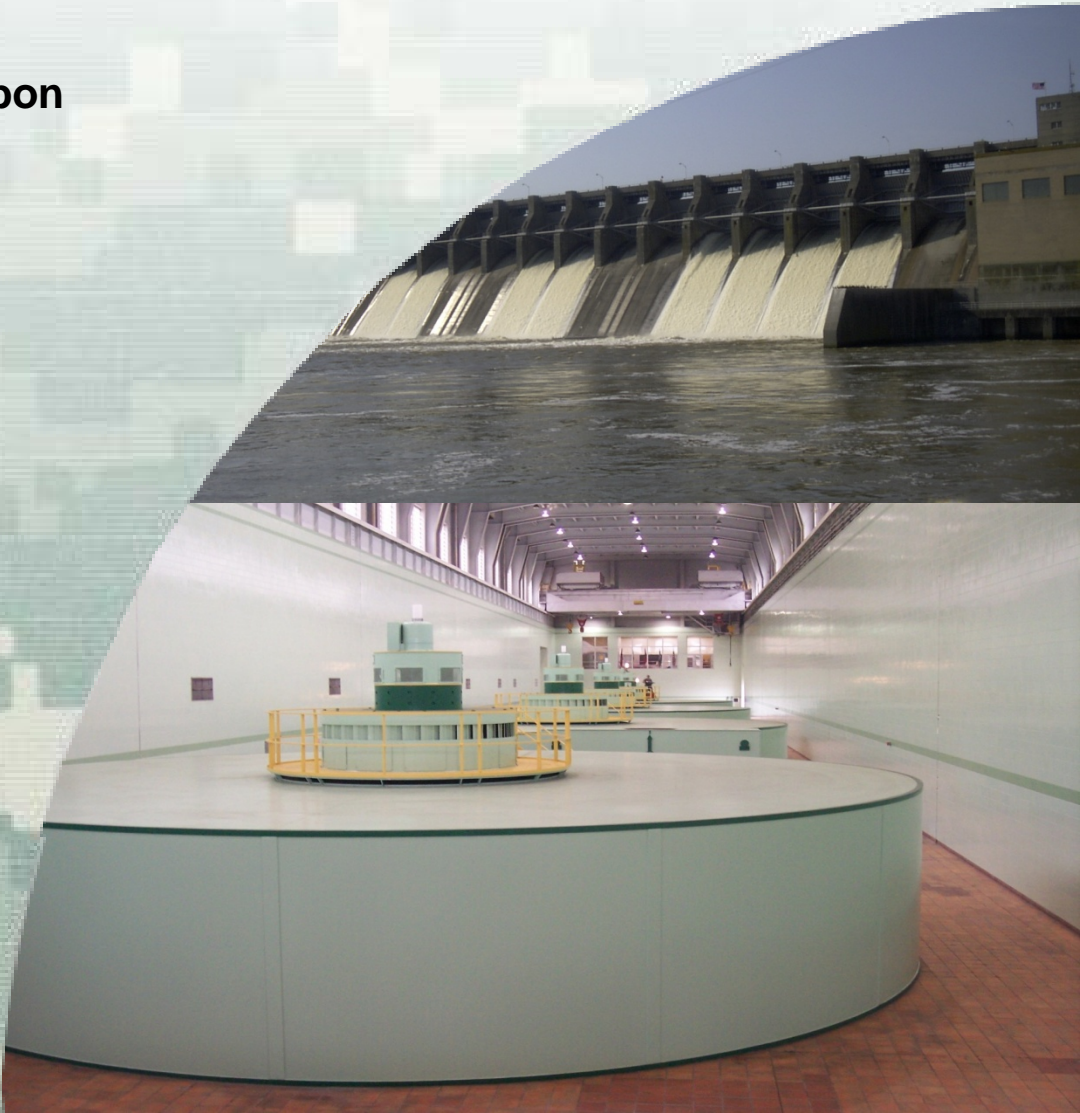
## South Atlantic Division Major Maintenance Update

**Steve Jones, Chris Ludwig & Daniel Rabon**

09 October 2013



US Army Corps of Engineers  
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# Philpott Dam & Powerhouse



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# Governor Replacement



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# Station Service Governor



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# Exciter Replacement



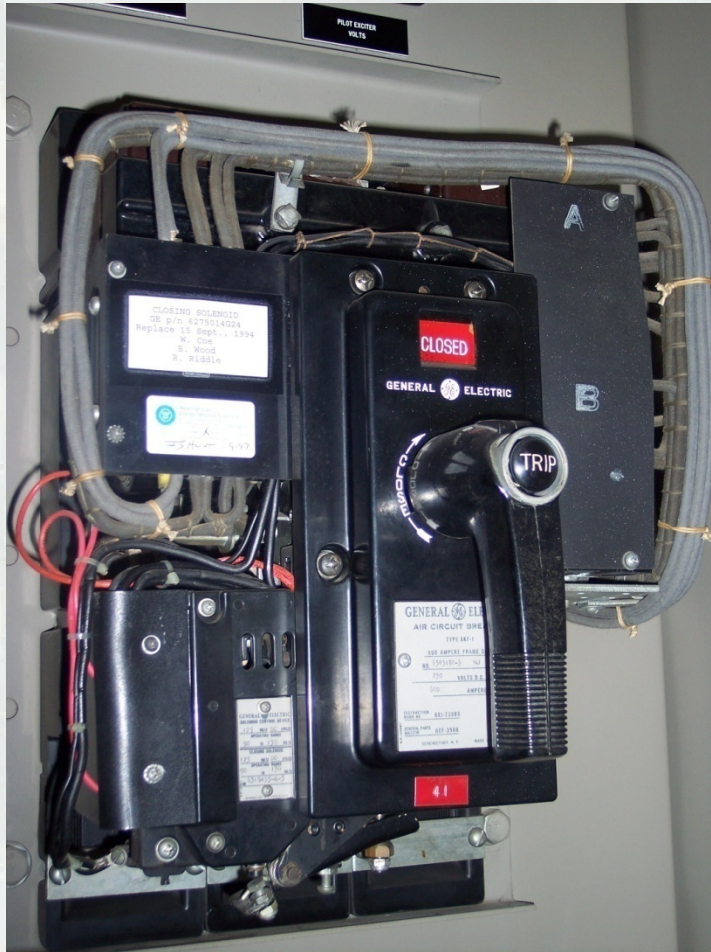
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# Switchgear Replacement

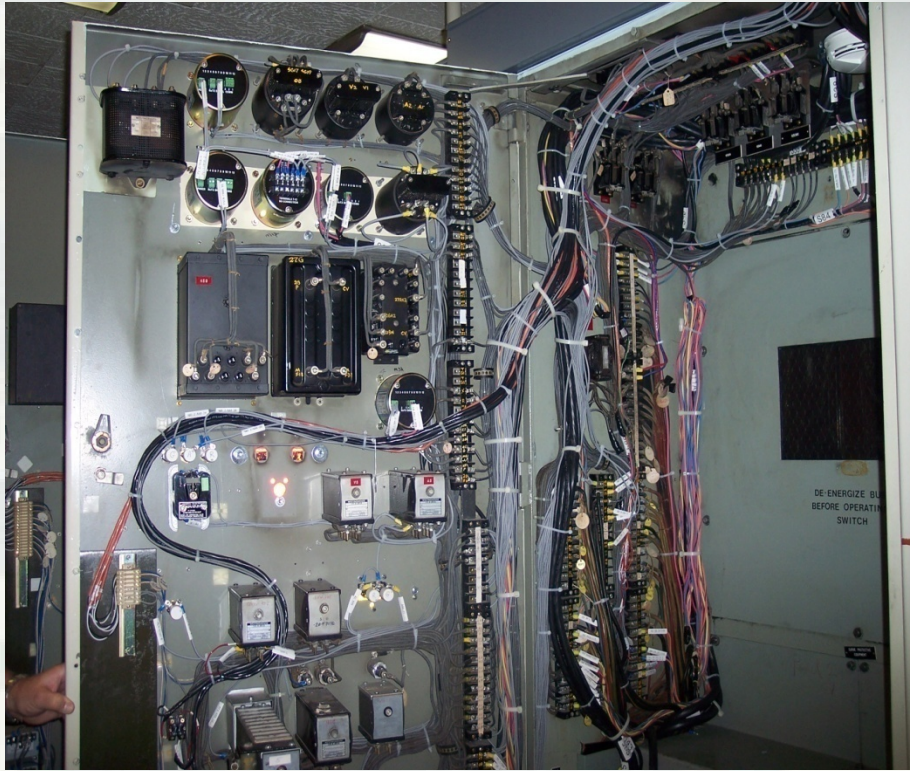


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# Switchgear Replacement



# Switchgear Replacement



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# Switchgear Building Location



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# Mobile District Project Update

- Allatoona Transformer Install – Scope
  - ▶ Replace GSU transformers
  - ▶ Replace Station Service switchgear, bus work, etc.
  - ▶ Convert 2300V system to 13.8kV system
  - ▶ Convert switchyard to ring bus configuration
  - ▶ Replace switchyard OCB's with GCB's
  - ▶ Install gas insulated metering sets
  - ▶ Replace generator control system



- Allatoona Transformer Install - Status
  - ▶ Transformer\Switchyard installation contract awarded to Koontz January 2013
  - ▶ Contractor mobilization to begin end of this month
  - ▶ Unit 1 will be returned to service using unit 2 transformer removing unit 2 from service  
December 2013
  - ▶ Unit 2 expected return to service April 2014, unit 1 removed from service
  - ▶ Unit 1 expected return to service October 2014



- Carters Units 3 & 4 Rewind – Scope
  - ▶ Rewind generator\motors 3 & 4
  - ▶ Replace generator air coolers
  - ▶ Repair\refurbish draft tube gates
  - ▶ Structural modifications to rotor spider
  - ▶ Replace failed instrumentation
  - ▶ Replace exciter PLC's
  - ▶ Cooling Water Supply System
  - ▶ Procure alignment tooling



- Carters Units 3 & 4 Rewind – Status
  - ▶ Rewind plans and specs complete
  - ▶ Detailed cost estimate complete – slightly lower than ROM estimate
  - ▶ Expect award 2Q FY14
  - ▶ Outage for first unit expected to be October 2014 with a return to service the following May.
  - ▶ Cooling water supply awaiting PRC decision to proceed with modified plan



# Russell MCB/SFC & Excitation Replacement

- **Status:**

- ▶ FCP funding of \$5,100,000.
- ▶ Contract awarded on 13 March 2012
- ▶ SFC commercially available on 01 July 2013
- ▶ Units 7&8 complete on 16 March 2013 (MCB & Excitation)
- ▶ Units 5&6 complete on 29 May 2013 (MCB & Excitation)
- ▶ Units 1&2 complete on 02 August (MCB)
- ▶ Units 3&4 will be complete on 11 October 2013 (MCB)
- ▶ Expected physical completion on 31 October 2013



# Russell Switchyard Component Replacement

- **Status:**

- ▶ FY10 FCP funding of \$3,600,000.
- ▶ New GCBs on site and installation design complete.
- ▶ Solicitation for installation was advertised on 06 June 2013.
- ▶ Source Selection Board (SSB) complete on 30 August 2013.
- ▶ Contract award expected by end of CY2013
- ▶ Expected contract completion date of April 2015

- **Issues:**

- ▶ CT will be entering “discussions” with contractors and a new SSB will be convened to evaluate new proposals based on the previous SSB findings.



# Hartwell Repair Unit 3 Stator

- **Status:**

- ▶ FY10 FPC funding of \$1,750,000.
- ▶ Unit 3 returned to service on 19 May 2011. Repair Contract closeout completed on 19 January 2012.
- ▶ Vibration analysis report was delivered on 16 May 2013. Scope of Work for vibration repair is being developed by HDC.
- ▶ Unit 3 stator winding phase-to-phase fault on 18 July 2013.
- ▶ Repair contract awarded on 30 October 2013. Expected repair completion date of 28 February 2014.
- ▶ Prior to commercial availability, vibration issues will be resolved utilizing the SOW developed by HDC.





# Savannah Remote Operations

- **Status:**

- ▶ Remote Feasibility Study completed by HDR engineering in September 2012
- ▶ Study determined that remote operations was feasible based on current technology
- ▶ The remote operations PDT proposed remote operations by the distributed methodology. This would allow any singular plant to operate any of the other two plants on the river system
- ▶ On 17 July 2013, conceptual approval for Savannah District remote operations was given by the District Commander, COL Hall
- ▶ Teams have been established to evaluate individual aspects of the project (communications, SOPs, security, etc.) in order to address technical issues, develop implementation plans, and provide a detailed budget estimate.
- ▶ Preliminary budget estimate is \$10.5M\*
- ▶ Estimated project completion date is 4<sup>th</sup> Qtr CY 2015

\*Estimate only. Subject to change based on additional PDT findings.

