





# MAJOR MAINTENANCE PROJECTS



Projects expected to be completed in FY19:

- Allatoona Governor Replacement
- Millers Ferry Digital Governor Retrofit
- Jones Bluff Digital Governor Retrofit
- Jim Woodruff Digital Governor Retrofit
- West Point Digital Governor Retrofit
- Buford 480 Switchgear Replacement
- Walter F George Switchgear Replacement





# PHILPOTT TURBINE & GENERATOR UPGRADE



Scope: \$20M in customer funds to upgrade turbines, rewind generators and replace associated equipment.

### Current Status:

- Existing rating: 7.5MVA
- Expected uprate rating: 9.3MVA
- Intake Gates refurbishment Interagency Agreement with TVA.
- Draft Tube Bulkhead Replacement RFP in CT.

### Next Steps:

- Determine Asbestos Abatement Requirements
- Award Asbestos Abatement Contract.
- Award Draft Tube Bulkhead Contract.
- Rehab Intake Gates.
- HDC provide final plans & specs JUN-2019.
- Advertise TG contract DEC-2019.
- 120 Days Advertise.
- Contractor mobilize one year after award Summer 2021.





# HARTWELL UNITS 3 & 4 WINDING REPAIR



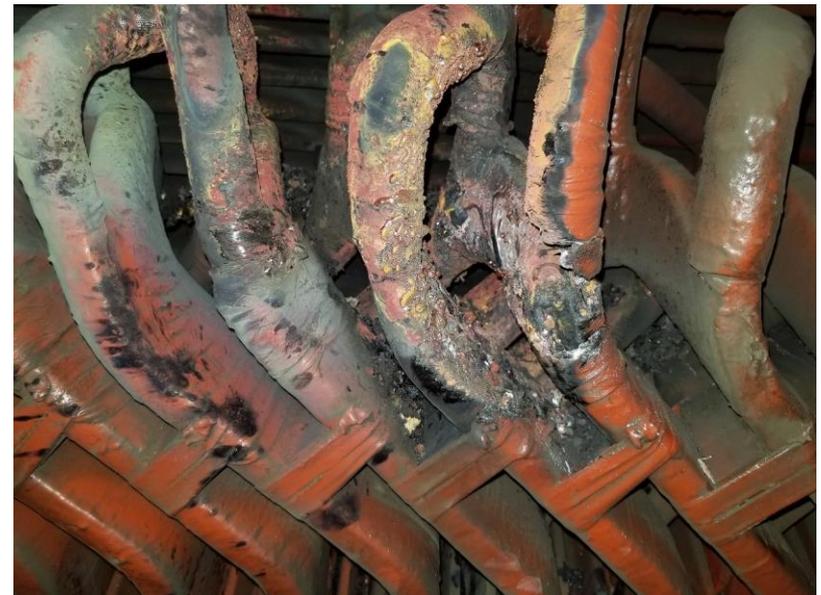
Scope: Project to Repair U3 Stator Winding Damage and Reduce Vibration on Units 3 & 4.

Current status:

- HTSC Report completed APR-2019
- Unit 3 is not repairable due to brittle copper and insulation.
- Unit 4 expected to be the same.
- Unit 4 phase to phase differential on 23-APR-2019. Assessment still underway.

Next Steps:

- Determine if Unit 4 is repairable.
- Terminate Reconfiguration Contract.
- Repair in house or with task order via Generator Requirements Contract.
- Begin rewind design for Units 3 & 4.





# SAVANNAH REMOTE OPERATIONS



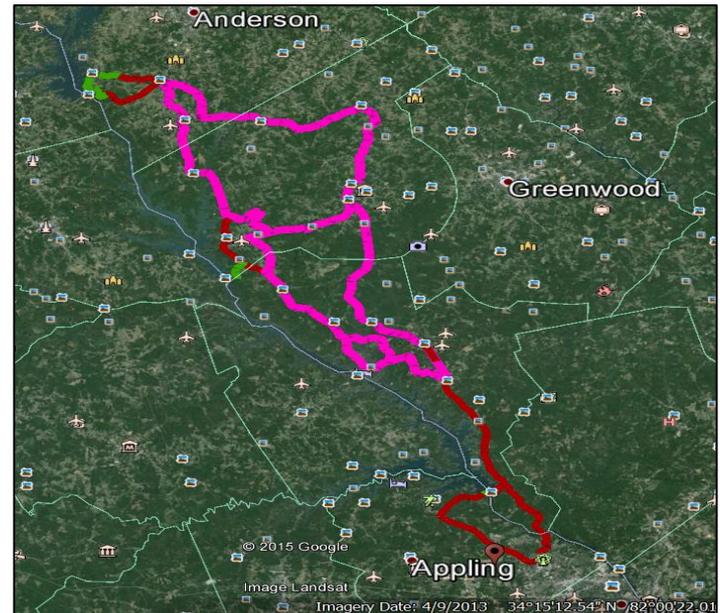
Scope: \$14.9M in customer funds to remotely operate the three Savannah River projects using a distributed operations methodology.

Current status:

- Generic Data Acquisition and Control System (GDACS) Phase 1 complete NOV-2018.
- Full remote capability across SAS.

Next Steps:

- GDACS Phase 2 (Unit Control):
  - Addressing controls with a regional approach.
  - Modular controls design
  - Protective relay modernization
  - Reduced outage time for installation.
- Staffing: Reduce operator positions by 6 through attrition by 2020.





# SAD REMOTE OPERATIONS



Scope: Effort to implement next generation Unit Controls and GDACS throughout SAD.

Current status:

- Funds for SAM SCADA/GDACS have been received.
- Design Kickoff for WFG MAR-2019.
- HDC to design modular RTU and Relay cabinets with modular SCADA, Control, and Relay systems.
- Task order contracts to execute supply of cabinets.
- Task order contracts to install systems.
- Designed and installed alongside the GDACS Remote Ops systems to ensure compatibility.
- Long-term maintenance reduction.

Next Steps:

- Acquire Unit Control Design funds.
- Complete Designs & Award Task Order Contracts.
- Procure and Install Equipment.





# RUSSELL STATIC FREQUENCY CONVERTER



Scope: \$600K in customer funds to repair Static Frequency Converter (SFC) and replace disconnect switches with vacuum breakers.

## Current status:

- SFC faulted damaging the input disconnect switch and the SFC JUL-2017.
- Contract with NIDEC to repair SFC and supply/install new breakers. Additional \$178k O&M funds.
- Breakers delivered JAN-2019

## Next Steps:

- Expected Return to Service JUN-2019.





# HTSC SIGNIFICANT ACTIVITIES



## Forced Outage Responses:

- Buford Unit 2 Governor
  - 31 Days out of service
- Millers Ferry Unit 2 Pot Head
  - 32 Days out of service
- Allatoona Unit 2 Turbine Guide Bearing
  - 14 Days out of service

## Proactive Task Order Contracts:

- Governor Repair
  - FY20 Award
- Exciter Repair
  - FY20 Award
- Cavitation Repair
  - FY21 Award



<b>HTSC Workload</b>	
Planning	67
Design	23
Contracting	9
Execution	26
Closeout	8
<b>Total</b>	<b>133</b>



# QUESTIONS