



Performance Measures



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SAD HYDROPOWER PERFORMANCE METRICS

1 OCT 2015 - 31 JUL 2016

	SAD Total	SAC	SAM	SAS	SAW		
Forced Outage	11.35%	5.83%	16.47%	5.08%	11.79%		
Unit Availability	83.84%	91.04%	74.41%	91.05%	85.44%		
	Allatoona	Buford	Carters	Jim Woodruff	Jones Bluff	Millers Ferry	Walter F. George
Forced Outage	100.00%	0.50%	9.79%	0.50%	0.41%	0.00%	0.04%
Unit Availability	0.00%	91.94%	67.92%	97.26%	95.89%	97.42%	92.33%
	West Point	Hartwell	J. Strom Thurmond	Richard B. Russell	John H. Kerr	Philpott	St. Stephen
Forced Outage	33.55%	20.01%	0.07%	0.14%	0.18%	52.41%	5.83%
Unit Availability	66.39%	77.89%	96.78%	94.25%	97.61%	42.85%	91.04%

Total Capacity: 3131

FORCED OUTAGE	Unit Availability
greater than 4%	less than 90%
2.0-4.0%	90%-94.99%
less than 2%	95% or greater

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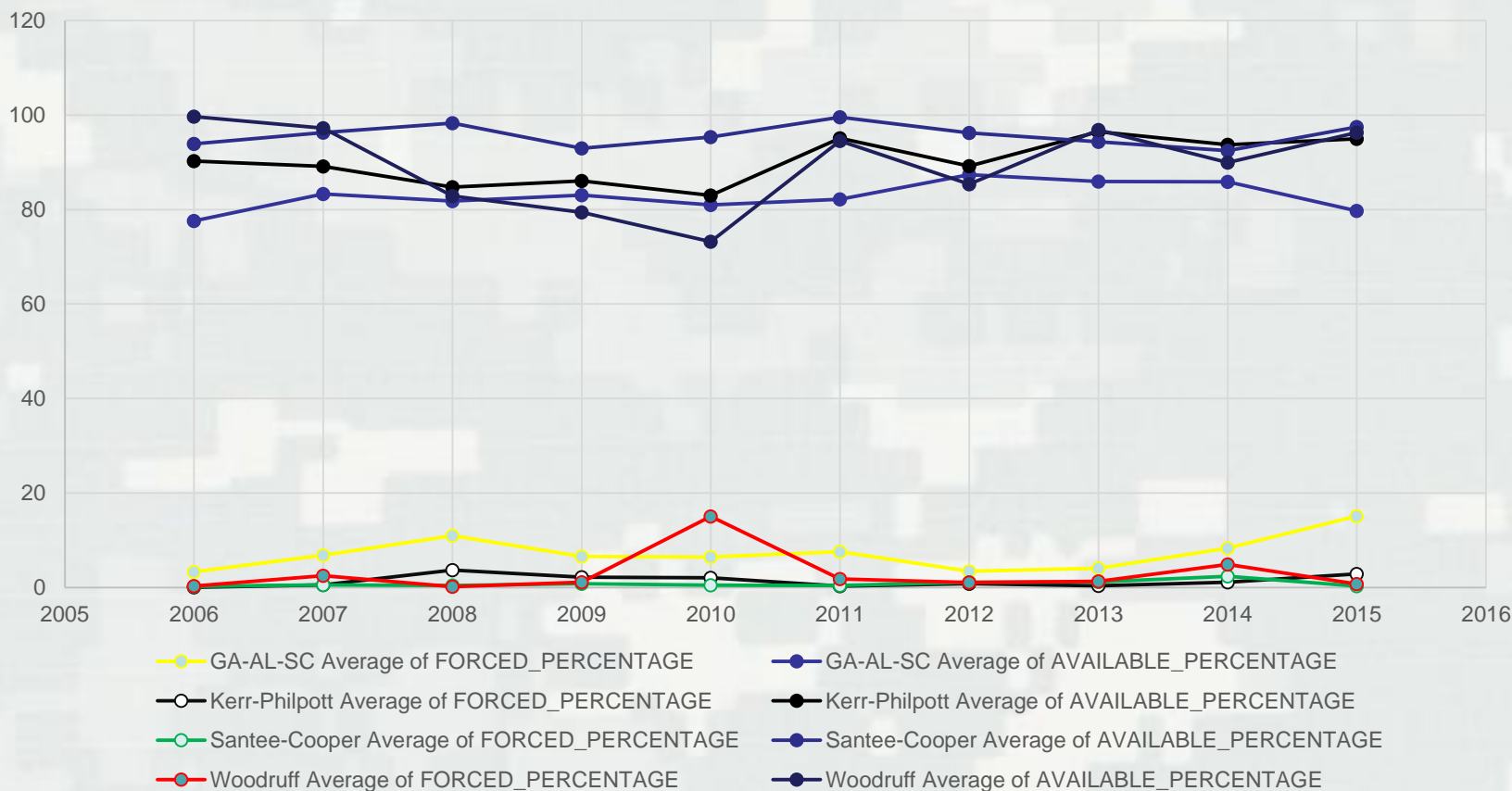


Performance Measures



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Hydropower Performance Measures



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Allatoona Update

Southeastern Federal Power Alliance

15 Sep 2016

Christopher Ludwig
U.S. Army Corps of Engineers
Mobile District





Original Contract Scope



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Complete

- Remove existing switchyard structure and electrical components
- Erect new ring bus structure, install Government furnished breakers, disconnects, and metering equipment.
- Install new generator step up transformers, including concrete supports and oil containment
- Install new 13.8kV AC bus
- Install new 13.8kV AC generator switchgear
- Install new 13.8kV, 480V, and 120V AC station service switchgear and distribution and lighting circuits
- Install new 13.8kV:480V station service transformers
- Install new 13.8kV:480V generator step up transformer
- Install new 125V DC and 120V Essential AC distribution switchgear and control cabling to new equipment



Work Due to Fire



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Complete

- Bulk clean-up
- Powerhouse structural repairs
- Restore/renovate damaged areas
 - Control room
 - Switchgear room
 - Cable spreading room
 - Cable tray room
 - Electric shop
 - Office areas
- Replace cable trays
- 125V DC Battery
- 120V Essential AC Inverter

In-process

- Crane repair/testing
- Control system installation
- Generator cleaning/testing
- Excitation installation
- Governor installation
- Surge suppression installation
- Neutral ground equipment installation
- Security and surveillance system
- Painting



Crane



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Issue: Soot from the fire caused corrosion of electrical and mechanical components as well as the main hooks. This is preventing operation of one of the trolleys and warrants certified personnel inspect and recommend repairs followed by complete load testing prior to use of the main hooks.

Status: Operation has been limited to only auxiliary hooks until all repairs and load testing is complete. A contract to inspect and repair the crane has been awarded and the contractor is expected to be on sight in November. Completion is dependent on the results of the inspection but is estimated at June 2017.





Governor



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Issue: The Governors experienced heat and corrosion damage as a result of the fire. They are currently inoperable and must be replaced.

Status: Plans and specifications have been completed and a solicitation is expected to be advertised in November. Expected completion for the installation is October 2017.



U.S. ARMY

Exciter



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Issue: The Exciters were in close proximity of the fire and experienced heat and corrosion damage as a result. They are currently inoperable and must be replaced. The excitation transformers also require replacement due to corrosion damage.

Status: Plans and specifications have been completed and replacement is included in the final directive list currently being negotiated with the contractor. Expected completion for the installation is October 2017.

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Generator Cleaning and Testing



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Issue: Significant amounts of soot entered the generator air housing but little corrosion has been observed as most surfaces are painted. The extent of exposure of the winding and core cannot be determined without disassembly however these surfaces are protected with varnishes so corrosion damage is not expected.

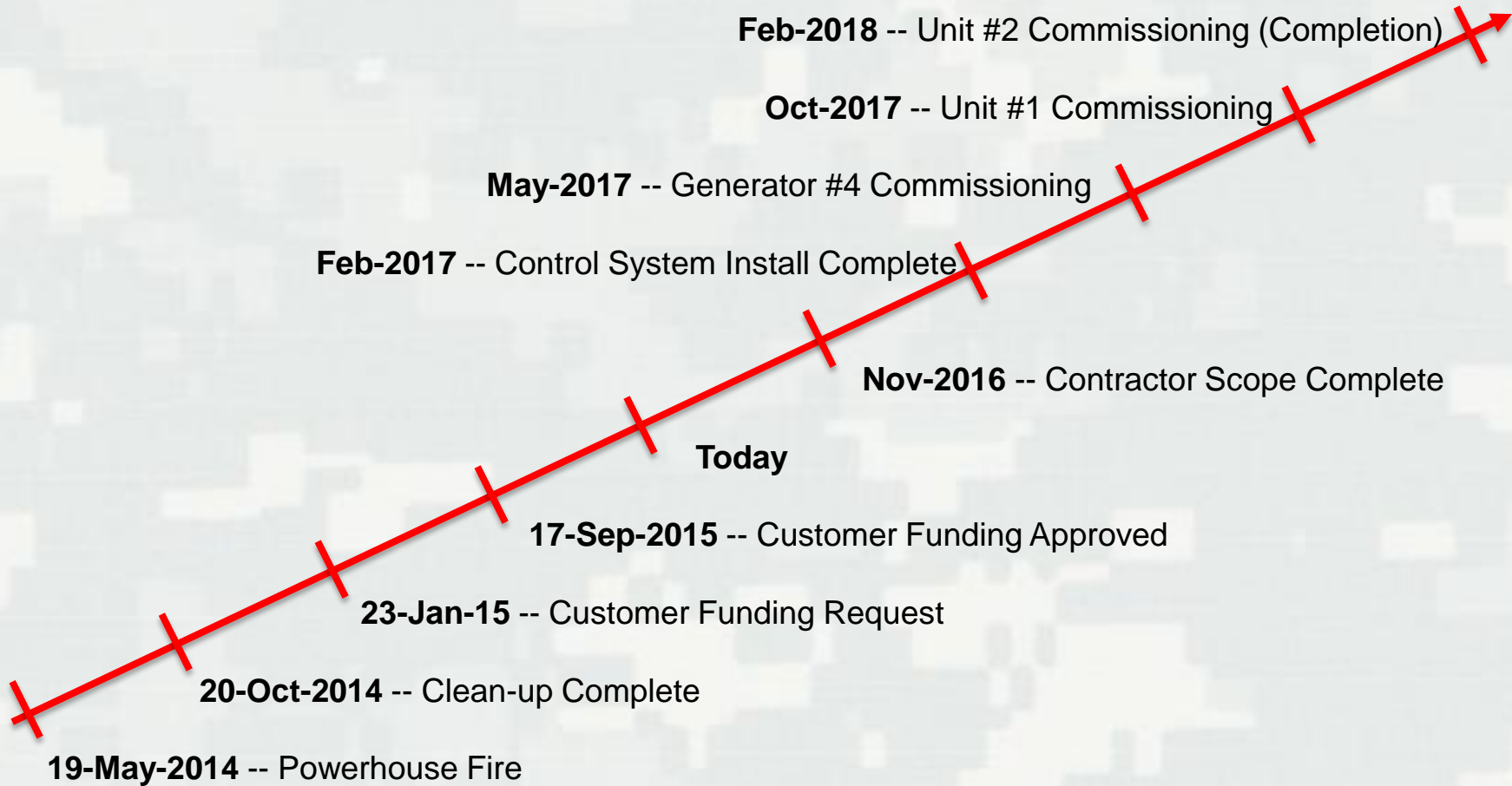
Status: A plan for plant personnel to disassemble and clean the rotor and stator has been developed but cannot be executed until the crane is repaired. Inspections have begun on other areas not requiring the crane's use such as the shafts and bearings.



Allatoona Powerhouse Restoration



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Allatoona Update



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QUESTIONS ?