

NASHVILLE DISTRICT SECTION 212-FUNDED PROGRESS UPDATE

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Prepared for Team Cumberland
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SUB-AGREEMENTS & BALLOTS

- **L-T MOA**
 - SA#8 (\$16.8M, 6 months to capacity)
- **S-T MOA**
 - SA#4 (\$13.7M, 4 months to capacity)
 - SA#4 completes \$90M toward \$111.8M Barkley budget
 - Term expires at the end of FY19 (OCT 1)
- **L-T MOA Ballots**
 - #10 – Wolf Creek Unit #5 Gibson Test, \$115K
 - #11 – Wolf Creek, Dale Hollow, Center Hill Intake Eq., \$4.5M
- **Legacy MOA Ballot**
 - #21 – Old Hickory OCB Bushings Replacement, \$160K (pending)



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FINANCIAL STATUS

Long-Term MOA	
Funds Received	\$190,216,968
Unobligated Project Funds	\$61,479,103
Emergent Work & Reserve Funds	\$23,772,396

Short-Term MOA	
Funds Received (SA#1,2,3 & 4)	\$86,150,028
Unobligated Project Funds	\$75,103,543
Reserve Fund	\$10,000,000

Legacy MOA	
Funds Received	\$45,000,000
Unobligated Project Funds	\$43,707
Emergent Work Funds	\$13,636,852

As of end of month AUG 2018



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PROGRESS

- **Barkley Major Hydropower Rehabilitation**
 - Completing preparatory projects
 - Barkley Exciters
 - >75% complete, Unit #4 in progress
 - Barkley Main Power Transformers
 - Supply contract awarded August 2018 to EthosEnergy for \$2.3M
 - Barkley Medium Voltage Cables Replacement
 - Contract awarded May 2018 to Beltline for \$2.8M
 - Contractor mobilizing now
 - Advertise Turbine-Generator Rehab in FY19



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PROGRESS

- **Old Hickory Unit #4 Repair**
 - Contractor disassembly in progress
- **Wolf Creek/Dale Hollow/Center Hill Intake Lifting Equip.**
 - Contract will be awarded this month
- **Center Hill Major Hydropower Rehabilitation**
 - Unit #1 head cover replacement MOD awarded
 - Unit #3 turned over to Voith for work
 - Unit #2 in service



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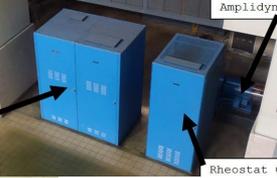
PATH FORWARD

- **Single Award Task Order Contract (SATOC) for Exciter Replacement**
 - Cordell Hull will be the “seed” project
 - Allows faster acquisition, homogeneity of equipment
- **Complete HRAR’s for Old Hickory and Wolf Creek**
 - Rate impact analysis for Old Hickory alternatives
- **Update to Master Plan**
 - Revise and reprogram work items



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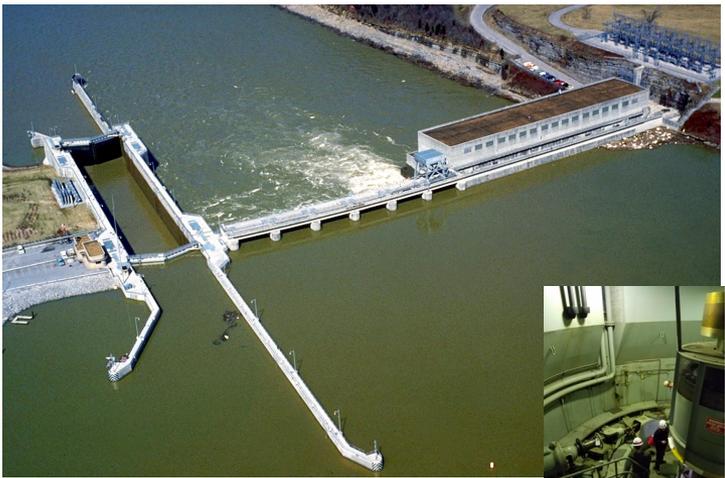




VOITH
 U.S. ARMY CORPS OF ENGINEERS
 NASHVILLE DISTRICT

PROJECT: CENTER MILL
 TYPE OF TURBINE: ADOLPHUS FRANCES TURBINE
 U.S. PATENT NO. 8,165,782 & 8,464,530

RATED HEAD = 160 FT RATED POWER = 71,000 HP
 RATED SPEED = 186.3 RPM RATED DISCHARGE = 4,100 CFS
 TURBINE NO. 80377 UNIT NO. 2
 MANUFACTURE NO. 200881 YEAR INSTALLED: 2017
 VOITH HYDRO, INC.
 YORK, PENNSYLVANIA, USA



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CENTER HILL DISSOLVED OXYGEN

- **Status & Path Forward**
 - MOD for Voith CFD for improved D.O. – report expected in November
 - Follow-on MOD for runner modifications
 - Criteria – technical/financial effectiveness
 - Quarterly executive-level engagements



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