

Hydroelectric Design Center

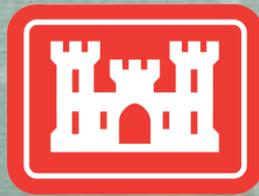
“Leaders in Hydropower Engineering”



Deanna Dinh, PE

Product Coordinator, Hydroelectric Design Center

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US Army Corps of Engineers
BUILDING STRONG



HDC Support for SAD

- Plans & Specifications
 - ▶ Provide detailed designs
 - ▶ Provide performance specification
 - ▶ Provide support during Advertising & Award
- Engineering During Construction (EDC)
 - ▶ Review technical submittal
 - ▶ Answer RFI (Request for Information)
 - ▶ Develop RFP (Request for Proposal)
 - ▶ Assist with O&M review
 - ▶ Attend factory acceptance testing
 - ▶ Lead/assist with commissioning





HDC Support for SAD

- Engineering During Construction (EDC)
 - ▶ Update arc flash study
 - ▶ Develop relay settings
 - ▶ Program PLC
- GDACS Support by ACCS Group
 - ▶ Develop and maintain secure and reliable automated controls in support of the USACE hydropower resource management mission
 - ▶ Install GDACS to allow remote operation at various SAD power plants
 - ▶ Replace existing RTU with new RTU
- HAC
 - ▶ Planning support for Water Supply and other impacts to hydropower





Current HDC Projects for SAD

- SAM

- ▶ Allatoona GDACS (P&S)
- ▶ Allatoona Transformer and Switchyard Rehab (EDC)
- ▶ Allatoona Digital Governor Replacement (P&S)
- ▶ Allatoona Exciter (P&S)
- ▶ Carters Units 3 & 4 Rewind (EDC)
- ▶ Jones Bluff/Millers Ferry Digital Governor Upgrade (P&S)
- ▶ ACF Water Control Manual Hydropower Analysis
- ▶ HAC ACT Support





Current HDC Projects for SAD

▪ SAS

- ▶ Savannah District GDACS (P&S)
- ▶ Hartwell Unit 3 Vibration (Eng. Study)
- ▶ R.B. Russell Switchyard Upgrade (EDC)
- ▶ J.S Thurmond Line Relay Install (EDC)
- ▶ Hartwell Water Supply Reallocation Study

▪ SAW

- ▶ Island Creek Pump Station Bulkhead Gate Inspection and Design Alternative Analysis (Eng. Study)
- ▶ Philpott Switchgear, Digital Governor & Exciter Replacement (EDC)
- ▶ Philpott GDACS (P&S)
- ▶ JH Kerr 216 Alternative Analysis - Natural Flow Mimic





Current HDC Projects for SAD

- SAC
 - ▶ St. Stephen Bridge Crane (EDC)
 - ▶ St. Stephen Switchyard Rehab (P&S)
 - ▶ St. Stephen Capacity Value Follow Up

