

**Appendix F**  
**HEC-ResSim Technical Modeling Workshop**  
**Announcement and Agenda**

To All,

The U.S. Army Corps of Engineers, Mobile District, in partnership with the Hydrologic Engineering Center (HEC) is developing ResSim Models for the Alabama-Coosa-Tallapoosa (ACT) and the Apalachicola-Chattahoochee-Flint (ACF) River Basins. These models will support the ACT and ACF Water Control Manual updates. Previous HEC-5 models for the basins have been converted to the HEC-ResSim modeling software. Additionally, models representing the current operations are under development. The migration of HEC-5 modeling to HEC-ResSim represents the modernization of reservoir modeling tools and methods. In the spirit of transparency and cooperation, the Mobile District will demonstrate the new models to interested stakeholders by hosting a technical modeling workshop. The HEC-ResSim models and data will also be available to those who are interested.

The workshop is scheduled for September 30 - October 2 at the Jim Woodruff Dam Resource Manager's office, located at 2382 Booster Club Road, Chattahoochee, Florida 32324.

All Stakeholders are invited to participate virtually in the opening session of the workshop (8a – 11a, Eastern) which includes the Introduction, Background and Overview of the ResSim models. This session will be available to all stakeholders through WebEx and teleconference lines. More information will be made available on the logistics of participating virtually at a later date. If you are interested in participating in the opening session of the workshop, please let me know so that we can make appropriate arrangements.

Due to space constraints, attendance is limited to 20-25 people. The invited participants will consist of attendees from previous technical modeling meetings, including representatives from State & Federal agencies, private dam owners (cooperator) and a limited number of stakeholders. The group should include a mixture of engineers, managers, and other professionals, with the understanding that this will be a technical session demonstrating the new HEC-ResSim modeling tools.

The workshop will be conducted 8am – 5 pm EDT; Tuesday, Wednesday, and Thursday. This allows for weekday travel on Monday and Friday for distant participants.

Based on the limited seating, the following have been allotted space to participate:

Cooperator, State and Federal Agencies (Limited to 2 seats each)

- Alabama Office of Water Resources
- Northwest Florida Water Management District

- Georgia Environmental Protection Division
- Alabama Power Company
- Georgia Power Company
- US Fish and Wildlife Service
- Southeast Power Administration
- US Environmental Protection Agency

Non-Government Stakeholders (limited to 1 seat)

- Atlanta Regional Commission
- Lake Lanier Association
- Middle Chattahoochee Coalition
- Lake Watch of Lake Martin
- Tri Rivers Waterway Development Assoc

Attendees are required to bring their own laptop computers and be prepared to install the HEC-ResSim software and copies of reservoir models. The computers should be less than three years old, have 20 GB of free disk space, and have Windows XP or Vista with at least 2GB of memory (although XP computers might perform adequately with only 1GB of memory).

Each invited entity listed above should submit individual names to James Hathorn by calling 251-690-2735 or e-mail to [james.e.hathorn.jr@usace.army.mil](mailto:james.e.hathorn.jr@usace.army.mil) not later than September 19, 2008. Additional information regarding the facility, lodging, restaurants and attire will be provided to participants as the names are submitted.

Details for the virtual session will be provided in a follow-up announcement.

## AGENDA

### ALABAMA-COOSA-TALLAPOOSA (ACT) RIVER BASIN

AND

### APALACHICOLA-FLINT-CHATTAHOOCHEE (ACF) RIVER BASIN

### HEC-ResSim WORKSHOP

#### Tuesday - 30 September 08 (Also available virtually)

- **Introduction:**
  - Welcome the group members, establish the District's priorities, define the purpose of the workshop, and explain what the evolution in the District's modeling tools means to the stakeholders.
- **Background:**
  - A discussion of the history of reservoir model development for the ACT and ACF basins, and transition to HEC-ResSim software.
- **Introduction to ResSim:**
  - Evolution from HEC5 to ResSim, successful application for other studies, what makes HEC-ResSim unique, HEC technical support and product development.
- **Overview of ResSim Program part 1:**
  - Explain program modules, physical constraints, rules, how ResSim "thinks",

#### **(End of Virtual Availability)**

- **Lunch**

#### **Overview of ResSim Program part 2:**

- Discuss types of results, system operations, and scripting.
- .
  - **Installfest:**
    - Group install HEC-ResSim on their computers, and load the sample models for the ACT and ACF watersheds.
  - **Field Trip:**
    - Tour of Jim Woodruff Lock and Dam

### **Wednesday - 1 October 08**

**Apalachicola-Chattahoochee-Flint:** Mobile and HEC lead the group through the most significant features of the ACF model, explaining the physical assumptions used representing the system, the comparison to HEC5 models for certain definitions, “flow-through” reservoirs, the interactions among projects, the power operations, the implementation of “basin inflow” rules and scripts, the features and relevance of HEC-DSS to HEC-ResSim, customized ACF user plots and tables, etc.

### **Thursday - 2 October 08**

**Alabama-Coosa-Tallapoosa:** Mobile and HEC lead the group through the most significant features of the ACT model, explaining the physical assumptions used representing the system, the comparison to HEC5 models for certain definitions (particularly Carter, Carter’s Pumpback, Martin brothers, the diverted outlet at Jordan Bouldin, the combined Jordan-Bouldin-Thurlow (JBT) Goal, the interactions among projects, the power operations, the parallel operations, the pumpback operations, the features and relevance of HEC-DSS to HEC-ResSim, customized ACT user plots and tables, etc.