

Issue Action Group: E11 Entrainment & Impingement

Revision: 01-30-02

Warrior and Coosa Projects Combined
www.southerncompany.com/alpower/hydro

E11 IAG Work Plan

Chairperson: Jim Crew	APC	JFCrew@southernco.com	(205) 257-4265
Facilitator: Kelly Schaeffer	Kleinschmidt	Kelly.Schaeffer@KleinschmidtUSA.com	(703) 451-8370

Members:

Name	Organization	Email	Work Phone
Sarah Chubb	USFS	schubb@fs.fed.us	(334) 241-8139
Stan Cook	ADCNR	scook@dcnr.state.al.us	(334) 242-3471
Carl Couret	USFWS	carl_couret@fws.gov *	(334) 441-5181
Jon Hornsby	ADCNR	jhornsby@dcnr.state.al.us	(334) 242-3420
Steve Kartalia	FERC	stephen.kartalia@ferc.fed.us	(202) 219-2942
Henry Mealing	Kleinschmidt	Henry.Mealing@KleinschmidtUSA.com	(803) 822-3177
Jim McHugh	ADCNR	jmchugh@dcnr.state.al.us	(334) 242-3628
Malcolm Pierson	APC	jmpierso@southernco.com	(205) 255-6177
Andy Sheppard	APC	ARSHEPPA@southernco.com	(205) 257-3207
Bill Sim	APC	WASIM@southernco.com	(205) 257-4136

Issue Statement

WE11 & CE11 Entrainment & Impingement - Effect of fish impingement, entrainment, and turbine mortality/injury at each of the project powerhouses on the aquatic resources of the project study area.

* The US Department of Interior including the US Fish and Wildlife Service has suspended electronic communication and it is not known when service will be restored. Communication with USFWS must be conducted via mail, fax and or telephone.

IAG Tasks and Responsibilities

The following are the responsibilities for this IAG:

- Determine a method to estimate impingement, entrainment, and turbine mortality impacts for the Coosa and Warrior Projects.
- Prepare a Study Plan that:
 - explains the concepts of entrainment, impingement, and turbine mortality
 - presents a proposed methodology and basis for performing a “paper entrainment” study for the Coosa and Warrior projects
 - includes recommendations for the IAG to discuss
- Determine the overall impact of impingement, entrainment, and turbine mortality.

Work Scope and Product

- Task 1 Finalize IAG membership and work plan.
- Task 2 Discuss the use of a “paper entrainment” study to evaluate impingement, entrainment, and turbine mortality impacts.
- Task 3 Prepare a study plan that:
 - explains the concepts of entrainment, impingement, and turbine mortality
 - presents a proposed methodology and basis for performing a “paper entrainment” study for the Coosa and Warrior projects
 - includes recommendations for the IAG to discuss
- Task 4 IAG to discuss study plan results and recommendations – then recommend next steps for “paper entrainment” study
- Task 5 Finalize “paper entrainment” study to assess the magnitude of impingement, entrainment, and turbine mortality
- Task 6 IAG to discuss overall impact of impingement, entrainment, and turbine mortality.

Schedule

The E11-IAG will begin work with a kick-off meeting on January 30th, 2002 and will continue meeting periodically until completion of the above Tasks. The following is a projected schedule which, will either be implemented with “face-to-face” or “conference call” meetings.

- Meeting 1 “Kick-off” meeting; introduce IAG members; complete Task 1, discuss Task 2
- Meeting 2 Task 4 - Discuss Task 3 results and recommendations
- Meeting 3 Discuss and finalize the “paper entrainment” study and begin Task 5.
- Meeting 4* Discuss and finalize Task 5.
- Meeting 5 Present Task 5 work products to the EcoRAT and WCRT

*This Task may take more than 1 IAG meeting.