



# R. L. Harris Hydroelectric Project

## FERC No. 2628

**Meeting Summary**  
**Harris Relicensing HAT Meetings**  
**September 20, 2018**  
**9 AM to 4 PM**  
**Oxford Civic Center**

**Participants** (See Attachment A – HAT Sign in Sheets)

Additional Participants not on Sign in sheets:

Angie Anderegg - Alabama Power  
Dave Anderson - Alabama Power  
Jeff Baker - Alabama Power  
Jason Carlee - Alabama Power  
Keith Chandler - Alabama Power  
Steve Krotzer - Alabama Power  
Ashley McVicar - Alabama Power  
Tina Mills - Alabama Power  
Christy Nix - Alabama Power  
Kenneth Odom - Alabama Power  
Sheila Smith - Alabama Power  
Colin Dinken - Kleinschmidt  
Amanda Fleming - Kleinschmidt  
Henry Mealing - Kleinschmidt  
Jason Moak - Kleinschmidt  
Kelly Schaeffer - Kleinschmidt

**By Phone:**

Evan Collins – USFWS  
Jennifer Haslbauer – ADEM  
David Moore - ADEM

**Action Items:**

- Revise Operations study plan
  - add impacts/effects of changes to the operating curve on Martin Fall Extension
  - add impacts/effects of changes to operating curve on Green Plan flows
  - consider adding an evaluation of periodic reservoir drawdowns
- Revise Recreation Study Plan methods and schedule (e.g., creel survey timing) and remove reference to Form 80.
  - As part of the recreation site inventory, utilize aerial imagery and LiDAR to examine boat docks and determine water levels at which they are usable.
- Tallapoosa River Stream Flow Study Plan - address the differences in temperature between continuous minimum flow and Green Plan
- Send Evan Collins the HAT 3 presentation
- Stakeholder comments on the Pre-Application Document (PAD), Scoping Document 1 (SD1) and Study Requests must be filed with FERC on or before October 1, 2018.

## **Meeting Notes:**

*These notes summarize the major items discussed during the meeting and are not intended to be a transcript or analysis of the meeting.*

Angie Anderegg (Alabama Power) explained that the purpose of the Harris Action Team (HAT) meetings is to provide an opportunity for stakeholders to give input on Alabama Power Company's (Alabama Power) draft study plans included in the June 1, 2018 Pre-Application Document (PAD) (Volume 2-Appendix T) and two new study plans and one revised study plan distributed by Alabama Power via email to stakeholders on September 17, 2018. Angie asked stakeholders to provide recommended edits to the study plans or to discuss other proposed studies. Providing feedback on the draft study plans will assist Alabama Power in developing final study plans for the Federal Energy Regulatory Commission (FERC) review and approval. The PowerPoint presentations for HATs 1-5 are provided in Attachment B and at <https://www.harrisrelicensing.com>.

### **HAT 1: Project Operations**

Kenneth Odom (Alabama Power) provided an overview of the tools that will be used in the Operating Curve Change Feasibility Analysis Study Plan. These tools include the following software programs: Hydrologic Engineering Center (HEC)-SSP, HEC-ResSim, HEC-RAS, HEC-DSS, and HEC-DSSVue. Kenneth discussed how Alabama Power will use these tools to develop models to evaluate operating curve alternatives and the associated potential effects on flooding, the Alabama Drought Response Operating Plan (ADROP), navigation, the Green Plan, and hydropower generation. Barry Morris (LWPOA) asked if these models account for withdrawals upstream of Harris. Kenneth stated that the models do take intervening flows and existing withdrawals into account. Barry asked about the magnitude of the 2015 Christmas Eve flood and whether that would be considered a 100-year flood event. Christy Nix (Alabama Power) explained that the 2015 high flow event was relatively small (i.e., a 15 to 20-year event) and the 2003 event was a 500-year event. Kenneth explained two flood events are not necessarily proportionate to one another in size (i.e., a 500-year event is not necessarily twice as large as a 250-year event). Barry asked about flows from the Coosa and Tallapoosa to meet downstream flows on the Alabama River, and Christy explained that the Coosa River provides a higher proportion of flows compared to the Tallapoosa River. Donna Matthews (LWPOA) asked about modeling that included the Coosa and Tallapoosa and flood events specific to the Tallapoosa. A stakeholder also asked about how the Tallapoosa River flows compare to the Coosa River flows; Christy Nix responded that Coosa has greater flows, partially due to upstream USACE storage projects.

Kelly Schaeffer (Kleinschmidt) then discussed the second phase of the operating curve change feasibility analysis study plan, which examines the possible effects of changing the winter operating curve in 1-foot increments (up to 4 feet) on environmental and recreation resources. Steve Forehand mentioned that many of Alabama Power's proposed studies encompass areas as far downstream as Horseshoe Bend and asked why Horseshoe Bend was chosen as the geographic limit for current studies. Alabama Power noted that flows attenuate at Horseshoe Bend and that substantial data has been gathered in this reach historically, making it a preferable geographic limit of analysis. Steve also asked how changing Harris operations in the winter

would affect the Martin Dam Project's (FERC No. 349) fall extension. Curt Chaffin (Alabama Rivers Alliance) asked if changes in Green Plan flows will be added to the analysis. Alabama Power noted that any changes in the operating curve at Harris would also evaluate other operational parameters, such as Green Plan flows and consider other Tallapoosa River hydro project requirements. Gene Crouch (LWPOA) asked if Alabama Power was going to evaluate the timing of the spring fill and fall drawdown at Harris. Alan Peebles noted that there were no proposed changes to the spring fill and fall drawdown schedule and, as such, would not be a part of the operations study plan. Barry Morris asked if Alabama Power was measuring other water quality parameters in addition to dissolved oxygen. Angie explained that there were several parameters being measured in the lake, such as increases in eutrophication. Angie explained that Alabama Power and ADEM collect water quality data; Lake Watch data was also used to develop the PAD. The information on water quality is provided in the PAD. A stakeholder asked if dissolved oxygen was being measured anywhere else at the Harris Project, and Angie explained that Alabama Power measures dissolved oxygen in the Harris tailrace for the 401 Water Quality Certification. Steve Forehand mentioned there is a higher winter pool at Lake Martin which drops every 6 years to provide a "flushing effect" and to allow property owners to conduct dock maintenance. Steve asked if Alabama Power would coordinate periodic reservoir drawdowns (for maintenance work) between the Harris and Martin Dam Projects. Barry asked if the 2015 Christmas Eve flood had a scouring effect on sedimentation or if a high flow event such as that would lead to more sedimentation. Jason Carlee (Alabama Power) explained there are a lot of variables involved but that it depends on sediment inputs; Ashley McVicar (Alabama Power) noted that downstream erosion will also be evaluated as part of the operations study plan. Sylvia French (LWPOA) noted that the south end of Harris Reservoir would greatly benefit from a winter operating curve change to provide more access to private docks during the winter drawdown. A stakeholder asked how a homeowner would reach the front pilings of certain docks for maintenance if the lake does not drop 8 feet (i.e., according to the existing operating curve); Sheila Smith (Alabama Power) replied that this issue will be considered in the study.

#### **HAT 5: Recreation Evaluation Study Plan**

Dave Anderson (Alabama Power) explained the three primary methods for the study plan: conduct a site inventory and condition assessment; estimate recreation use and demand; and identify stakeholder requests for new facilities, access, upgrades, etc. Dave also explained that the Recreation Evaluation Study Plan will be revised to remove references to FERC Form 80<sup>1</sup>, but Alabama Power will use the same methods as presented in the June 1, 2018 version of this study plan to conduct this study. As part of the site inventory, aerial imagery and LiDAR will be used to examine private and public boat docks/ramps and determine the water levels in which they are accessible. Thomas St. John (Alabama Power) suggested an edit to the creel survey (number 8: change "using" to "usually"). The Alabama Department of Conservation and Natural Resources (ADCNR) also recommended that the schedule for the creel survey be updated in the PowerPoint presentation to reflect Q2-Q3. Ken Wills (Alabama Glade Conservation Coalition) asked if the birding trail that shares a parking lot with the Little Fox Creek recreation site would be included in recreation counts. Dave explained it is difficult to distinguish specific uses when you conduct user counts.

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<sup>1</sup> It is anticipated that FERC will no longer require licensees to file a FERC Form 80 beginning in 2019.

#### **HAT 4: Project Lands Evaluation and Botanical Inventory at Flat Rock Park**

Tina Mills (Alabama Power) explained the Project Lands Evaluation Study Plan and the new proposal to conduct a botanical inventory at the 20-acre parcel of land at Flat Rock Park to be incorporated into the Project Lands Evaluation Study Plan. Barry asked about zoning regulations and limits to shoreline development. Tina explained that Harris' scenic easement does restrict the type of development that can occur along the shoreline within that easement, and Sheila noted the natural/undeveloped land use classification that prohibits development. Ken asked about accessing the existing Wildlife Mitigation Plan. Angie noted that Ken could request this document because it is part of the PAD library. All requests for PAD library documents should be sent directly to Angie. Ken asked if Alabama Power has an expectation of how this area might change assuming the re-classification is approved. Alabama Power does not have specific goals in mind for this 20-acre parcel, and this study is being conducted to address the request to evaluate a change to the existing land use classification. It was also noted that this study does not address changes to private lands; however, HAT members will have input into Project lands changes that may include changing land use classifications or adding lands into the Harris Project boundary (e.g., including a new recreation site).

#### **HAT 3: Fish and Wildlife – Threatened and Endangered Species**

Jason Moak (Kleinschmidt) explained that the Threatened and Endangered (T&E) Species study plan encompasses Skyline, Harris Reservoir, and the Tallapoosa River from Harris Dam downstream to Horseshoe Bend. No studies will occur on private lands. Henry Mealing (Kleinschmidt) asked when in the process we would determine if a Biological Assessment (BA) is needed. This decision is made by the USFWS and typically occurs in parallel with the development of protection, mitigation, and enhancement measures. Evan Collins (USFWS) mentioned potential T&E bats and plants in the Skyline area and noted that USFWS will work with Alabama Power to determine the need for a BA. Ken Wills asked if Alabama Power would be looking at any lands outside the Project Boundary for T&E species, and Jason and Henry explained that Alabama Power will not be addressing T&E species on private lands.

#### **HAT 3: Fish and Wildlife - Tallapoosa River Fisheries**

Jason Moak presented the revised Tallapoosa River Fisheries Study. Mitch Reid (The Nature Conservancy) asked why the target species (Tallapoosa Bass, Channel Catfish, and Redbreast Sunfish) for the study were selected. Jason Carlee noted that the species were selected based on consultation with ADCNR, and because they are typical of most of the rivers in the region and indicative of the species that should be doing well. Additionally, they are also resilient fish that can be transported relatively easily to a laboratory for further study. Mitch also asked about fish species recorded prior to the dam. Jason Moak reviewed the methods in this study plan. Curt Chaffin asked about modeling changes in temperature and fisheries resulting from a minimum flow. A stakeholder also asked how often temperature was measured (Alabama Power measures every 30 minutes and ADEM every 15 minutes). Jason explained that Auburn University would be reporting on the first two steps of the study (determining the temperature requirements of the target species and analysis of temperature data) in Q1 2019. A stakeholder asked if alternatives to the operating curve would be tested against bioenergetics data; Alabama Power responded that this will not be tested directly, but the effect of minimum flow on river temperature data would be evaluated. A stakeholder mentioned that fish currently found in the river may not include all the species that could be found in the river in the past and asked if these fish would be

considered. Alabama Power explained that the three target species would be the focus of the study because data to date suggests these species may not be doing well.

### **HAT 3: Tallapoosa River Stream Flow**

Henry Mealing explained the need to evaluate minimum flow and the methods involved in the draft study plan. Mitch asked what range of flows are available to test. Henry explained that the level loggers will collect data over a range of flows including the Green Plan flows and peaking flows, but it depends on the amount of water available in the system once the loggers are placed into the river. Mitch asked about field surveys and modeling overlap and how stakeholders will be engaged with field data and doing their own modeling. Alabama Power acknowledged that it may be possible to get started on field surveys and hydraulic modeling earlier than anticipated. Henry noted that the data would be available to discuss as part of the HAT reviews, and the number of HAT meetings has yet to be determined. Mitch also asked about peaking flows, ramping slower, and modeling more “smooth” flows. Ashley noted that many things could be modeled but would have to be within parameters of what is physically possible with all system constraints. Mitch also asked about Cahaba lilies in the Wadley area and how peaking effected this population. During group discussions, Ken noted that there have been several studies of the Cahaba lilies in the Tallapoosa River. Henry asked Ken to send location information to Angie, and he agreed. Steve Krotzer (Alabama Power) and Elise Irwin (Auburn University) noted two lily populations in the study area (Peters Island and downstream of Horseshoe Bend). Barry Morris asked that we define what a “transect” is. Henry noted that a transect is a perpendicular pathway across the river along which several measurements are collected. In the case of the flow study, it will include depth data, wetted perimeter, and periodic flow velocities. Henry noted that field work will not likely begin this fall, but Alabama Power will get the loggers placed in the river and collect at least three months of data for use in the hydraulic model. Chris Decker (EPA) suggested sampling longer than three months. Taconya Goar (ADCNR) asked about predicting different temperatures under different flows using a model. Henry noted that this would be hard to predict depending on physical constraints for passing different flows of water; different methods of providing downstream flow could provide different temperatures. Models that predict temperature are more data intensive and involve more variables. Ashley McVicar noted the model is 1-dimensional and other more intensive models will not be used in this study; temperature predictions would require analysis of many variables. Angie Anderegg explained that results from the bioenergetics study will be the primary input for temperature. Keith Chandler (Alabama Power) noted that flow, habitat, and fish data would all be used in decision making. Ashley clarified that some temperature data may be used to view as incremental change, and the reservoir water quality model may also be used. Angie Anderegg asked about the daily volume of water modeled in this study and asked stakeholders to note if they have any specific flow targets that they thought would be necessary to include in the analysis. Angie asked if any stakeholder was looking for Alabama Power to model, or otherwise evaluate, a specific minimum flow. There was discussion on filing comments and plans with Alabama Power and FERC. All stakeholders are responsible for filing their comments with FERC on FERC’s e-library system.

### **HAT 2: Water Quality and Use – Water Quality**

Jason Moak described the goal and methods of the Water Quality Study Plan. A stakeholder asked if the 401 certification occurs in 2020, and Ashley noted that Alabama Power will file the 401 water quality certification application with ADEM in 2020. A stakeholder asked if the public could submit comments on the certification process, and ADEM noted that the 401 process does include a public comment period. ADEM noted it has one year to respond to the 401 application.

### **HAT 2: Water Quality and Use- Erosion and Sedimentation**

Henry Mealing explained the need to identify problematic erosion and sedimentation areas and determine the causes. Taconya asked about sedimentation and erosion at Little Coon Creek and what activities Alabama Power could be doing to contribute since Skyline is not located on the reservoir and, thus, not affected by reservoir operations. Henry noted timber management in the area could have an effect, and the purpose of this study is to note all contributing activities. Taconya asked about ways to mitigate impacts to Little Coon Creek since the lands that could affect Little Coon Creek include private lands and lands that are part of the Project Boundary. Henry noted that Best Management Practices (BMPs) and education are ways to address erosion and sedimentation when the activities contributing to adverse effects occur on private lands. For lands within the project boundary that are managed by Alabama Power and ADCNR, best management practices for timber management can be used. Henry also explained that the goal of the study is not to alleviate erosion and sedimentation but to identify and gather information. A stakeholder asked if Alabama Power is responsible for erosion and sedimentation if it is in the project boundary, even if they are not causing it. If land use practices on private lands are causing sedimentation into the reservoir, for example, BMPs and education are typically used to address these activities. Barry Morris asked about downstream erosion and sedimentation and the role of downstream property owners. Henry explained that downstream land owners are HAT 2 members. In addition, Barry asked about the timeline for identifying erosion and sedimentation locations. Henry and Kelly Schaeffer noted that stakeholders could submit those locations, with as specific information as possible, to Alabama Power in their comments on the PAD and study plans (which are due to FERC on or before October 1, 2018) or, if information was currently available, to the HAT later this fall. Having this information early in the process will help Alabama Power be prepared for the start of this study.

ATTACHMENT A  
HAT SIGN IN SHEETS



# HARRIS PROJECT RELICENSING

## HAT 1 SIGN-UP SHEET

September 20 9:00 – 10:30 AM

	NAME	EMAIL
1	John Smith	jsmith@email.com
2	Nick Nichols	nick.nichols@dnr.alabama.gov
3	Curt Chaffin	echaffin@alabamarivers.org
4	Evan Lawrence	Evan.Lawrence@dnr.alabama.gov
5	NANCY BURNES	nancyburnes@centurylink.net
6	Richard Burnes	richardburnes3@gmail.com
7	Michael Holley	mike.holley@dnr.alabama.gov
8	Alan Peoples	alpeeps@southco.com
9	Sylvia French	sandrfrench@gmail.com
10	Dan Holliman	Holliman.Daniel@epa.gov
11	Butch Jackson	<del>butch</del> Butchjackson60@gmail.com
12	Gene Crouder	gene@wedoweeLakehomes.com
13	IRA PARSONS	IRAPAR@CENTURYTEL.NET
14	Donna Matthews	donna.mat@qol.com



# HARRIS PROJECT RELICENSING

## HAT 1 SIGN-UP SHEET

September 20 9:00 – 10:30 AM

	NAME	EMAIL
15	Taconya Goar	taconya.goar@dcnr.alabama.gov
16	Steve Forehand	storehand@russellands.com
17	Michelle Roz	a 103
18	Kristie Coffman	kmo0025@auburn.edu
19	Steve Bryant	Steve.Bryant@dcnr.alabama.gov
20	TOM GALLAND	Lgarcand@e30c.com
21		
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25		
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Add Butch Jackson to HAT 1  
Add Ira Parsons

Add Elize I to HAT 1

## HARRIS PROJECT RELICENSING



HAT 1

Thursday, September 20, 2018

Add Mellie Parrish  
Add Donna Matthews

NAME

EMAIL

1/31/2018	Steve Forehand ✓	sforehand@russellands.com
1/31/2018	John Thompson	
1/31/2018	Tom Hoggle	
1/31/2018	Paul Smith	paul.trudine@gmail.com
1/31/2018	David Smith	inspector_003@gmail.com
1/31/2018	Mariyln Lott	mlott@randolphcountyedc.com
1/31/2018	Taconya Goar ✓	taconya.goar@dcnr.alabama.gov
1/31/2018	Mike Holley ✓	mike.holley@dcnr.alabama.gov
1/31/2018	Nick Nichols ✓	nick.nichols@dcnr.alabama.gov
1/31/2018	Chris Greene ✓	chris.greene@dcnr.alabama.gov
✓ 1/31/2018	Damon Abernathy ✓	
1/31/2018	Keith Henderson	keith.henderson@dcnr.alabama.gov
1/31/2018	Cindy Lowry	clowry@alabamarivers.org
1/31/2018	Lisa Perra Gordon	gordon.lisa-perras@epa.gov
4/24/2018	Mitch L. Reid ✓	mitchell.reid@tnc.org
4/24/2018	Gene Crouch ✓	gene@wedoweelakehomes.com
4/24/2018	Richard Burnes ✓	richardburnes3@gmail.com
4/24/2018	Linda Stone	lindastone2012@gmail.com
4/24/2018	Jesse Cunningham	jesse@lakemartinhobos.com
4/24/2018	Mike Dollar	mdollar48@gmail.com
4/24/2018	Sonja Holloman	sonjaholloman@gmail.com
4/24/2018	Jeff Duncan	jeff_duncan@nps.gov
4/24/2018	Berry Smith	bsmith0253@gmail.com

AD



# HARRIS PROJECT RELICENSING

HAT 1

Thursday, September 20, 2018

	NAME	EMAIL
4/24/2018	Doug & Jan Crisp	<u>jec22641@aol.com</u>
4/24/2018	Ginny Oxford	<u>goxford@centurylink.net</u>
4/24/2018	Nancy Burnes ✓	<u>nancyburnes@centurylink.net</u>
4/24/2018	Stan Cook	<u>stan.cook@dcnr.alabama.gov</u>
4/24/2018	Curt Chaffin ✓	<u>cchaffin@alabamarivers.org</u>
4/24/2018	Tom Garland	<u>lgarland68@aol.com</u>
	<i>Evan Lawrence</i>	<i>Evan.Lawrence@dcnr.alabama.gov</i>



# HARRIS PROJECT RELICENSING

## HAT 2 SIGN-UP SHEET

September 20 2:45 – 3:45 PM

	NAME	EMAIL
15	MT	
16	Nick Niddals	Nick.niddals@denr.alabama.gov
17	Steve Forehand	sforehand@russellands.com
18	Steve Bryant	steve.bryant@denr.alabama.gov
19	TOM GARLAND	lgarland68@aol.com
20	Melli Porech	mhporech@qmail.com
21	Donna Matthews	donnamat@aol.com
22	Curt Chaffin	on list
23	Kristie <del>Shel</del> Coffman	kmo0025@auburn.edu
24	Dan Holliman	Holliman.Daniel@epa.gov
25	NANCY BURNES	nancyburnes@centurylink.net
26	Richard Burnes	richardburnes3@gmail.com
27	elise irwin	irwiner@auburn.edu
28		

Add Elise I to HAT2

## HARRIS PROJECT RELICENSING



HAT 2

Thursday, September 20, 2018

	NAME	EMAIL
✓	1/31/2018 Steve Forehand	sforehand@russellands.com
	1/31/2018 John Thompson	
	1/31/2018 Jerry Doss	midwayoutdoors@bellsouth.net
	1/31/2018 David Moore	djmoore@adem.alabama.gov
	1/31/2018 David Smith	inspector_003@yahoo.com
✓	1/31/2018 Nancy Burnes	nancyburnes@centurylink.net
	1/31/2018 Taconya Goar	Taconya.goar@dcnr.alabama.gov
	1/31/2018 Mike Holley	mike.holley@dcnr.alabama.gov
✓	1/31/2018 Barry Morris	rbmorris333@gmail.com
✓	1/31/2018 Chris Greene	chris.greene@dcnr.alabama.gov
✓	1/31/2018 Damon Abernathy	
	1/31/2018 Jennifer Haslbauer	jhaslbaur@adem.alabama.gov
	1/31/2018 Harry Merrill	harry.merrill47@gmail.com
	1/31/2018 Nick Nichols	nick.nichols@dcnr.alabama.gov
	1/31/2018 Keith Henderson	keith.henderson@dcnr.alabama.gov
	1/31/2018 Donna Matthews	donnamat@aol.com
	1/31/2018 Cindy Lowry	clowry@alabamarivers.org
✓	1/31/2018 Chris Decker	decker.chris@epa.gov
	1/31/2018 Lisa Perras-Gordon	gordon.lisa-perras@epa.gov
✓	4/24/2018 Mitch L. Reid	mitchell.reid@tnc.org
✓	4/24/2018 Richard Burnes	richardburnes3@gmail.com
	4/24/2018 Amy Silvano	amy.silvano@dcnr.alabama.gov
	4/24/2018 Evelyn Hamrick	eveham75@gmail.com

# HARRIS PROJECT RELICENSING

HAT 2

Thursday, September 20, 2018



**NAME**

**EMAIL**

4/24/2018	Jeff Duncan	<a href="mailto:jeff_duncan@nps.gov">jeff_duncan@nps.gov</a>
4/24/2018	Jan and Doug Crip	<a href="mailto:jec22641@aol.com">jec22641@aol.com</a>
4/24/2018	Stan Cook	<a href="mailto:stan.cook@dcnr.alabama.gov">stan.cook@dcnr.alabama.gov</a>
4/24/2018	Tom Garland	<a href="mailto:Lgarland68@aol.com">Lgarland68@aol.com</a>
✓ 4/24/2018	Curt Chaffin	<a href="mailto:cchaffin@alabamarivers.org">cchaffin@alabamarivers.org</a>

*Dan Holliman*

*Holliman.Daniel@epa.gov*



# HARRIS PROJECT RELICENSING

## HAT 3 SIGN-UP SHEET

September 20 1:00 – 2:30 PM

	NAME	EMAIL
1	John Smith	jsmith@email.com
2	Nick Nichols	nick.nichols@denr.alabama.gov
3	Tacanya Gear	See List
4	Michael Holley	mike.holley@denr.alabama.gov
5	D.L. Abernethy	Damon.Abernethy@ " "
6	Dan Holliman	holliman.daniel@epa.gov
7	Chris Decker	decker.chris@epa.gov
8	Steve Forehand	sforehand@russellands.com
9	Steve Bryant	steve.bryant@denr.alabama.gov
10	TOM GARLAND	lgarland@geac.com
11	Melvin Powell	mhpowell@gmail.com
12	Donna Matthews	donna.mat@go1.com
13	Curt Chaffin	on list
14	Ken Wills	ken.wills@jedh.org



# HARRIS PROJECT RELICENSING

## HAT 3 SIGN-UP SHEET

September 20 1:00 – 2:30 PM

	NAME	EMAIL
15	Kristie Coffman	kmo0025@auburn.edu
16	elise Irwin	Irwiner@auburn.edu
17		
18		
19		
20		
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# HARRIS PROJECT RELICENSING



HAT 3

Thursday, September 20, 2018

	Name	Email
1/31/2018	Tricia Stearns	triciastearns@gmail.com
1/31/2018	Amy Silvano	amy.silvano@dcnr.alabama.gov
1/31/2018	Taconya Goar ✓	taconya.goar@dcnr.alabama.gov
1/31/2018	Mike Holley ✓	mike.holley@dcnr.alabama.gov
1/31/2018	Chris Greene ✓	chris.greene@dcnr.alabama.gov
1/31/2018	Nick Nichols ✓	nick.nichols@dcnr.alabama.gov
1/31/2018	Chris Oberholster	chrisoberholster@birminghamauburn.org
1/31/2018	Damon Abernethy ✓	damon.abernethy@dcnr.alabama.gov
1/31/2018	Keith Henderson	keith.henderson@dcnr.alabama.gov
1/31/2018	Donna Matthews	donnamat@aol.com
1/31/2018	Cindy Lowry	clowry@alabamarivers.org
4/24/2018	Mitch Reid	<u>mitchell.reid@tnc.org</u>
4/24/2018	Jeff Duncan	<u>jeff_duncan@nps.gov</u>
4/24/2018	Stan Cook	<u>stan.cook@dcnr.alabama.gov</u>
4/24/2018	Curt Chaffin ✓	<u>cchaffin@alabam.rivers.org</u>

Add Even Lawrence ADCNR

Add Ken Wills      Ken.wills@jcdh.org

Add Elise to HAT 3



# HARRIS PROJECT RELICENSING

## HAT 4 SIGN-UP SHEET

September 20 10:45 AM - 12:00 PM

Project Lands

	NAME	EMAIL
1	John Smith	jsmith@email.com
2	with Reid	on list
3	Kenneth Wills	ken.wills@jedh.org
4	Curt Chaffin	on list
5	Kristie Coffman	kmo0025@auburn.edu
6	Evan Lawrence	Evan.Lawrence@dcnr.alabama.gov
7	Gene Crouch	see list
8	Taconya Goar	
9	Steve Forehand	sforehand@russellands.com
10	Donna Matthews	donna.mat@aol.com
11	Mellic Farnel	mhpae@verizon.com
12	TOM GARLAND	lgarland@geac.com
13	D.L. Abernethy	Damon.Abernethy@dcnr.alabama.gov
14	Mike Holley	Mike.holley@dcnr.alabama.gov

Add Kristie Coffman  
Add Gene Crouch

Add Donna Matthews  
Add Mellie Parsons

## HARRIS PROJECT RELICENSING



HAT 4

Thursday, September 20, 2018

Add Ken Wills

Ken. Wills p jcdh.org

	Name	Email
1/31/2018	Paul Smith	paul.trudine@gmail.com
✓ 1/31/2018	Steve Forehand	sforehand@russelllands.com
1/31/2018	John Thompson	
1/31/2018	Harry Merrill	harry.merrill47@gmail.com
1/31/2018	Jerry Doss	midwayoutdoors@bellsouth.net
1/31/2018	David Smith	inspector_003@yahoo.com
1/31/2018	Glenell Smith	gardenergirl04@yahoo.com
1/31/2018	Matt Brooks	matt.brooks@alea.gov
1/31/2018	Coty Brown	coty.brown@alea.gov
1/31/2018	Amy Silvano	amy.silvano@dcnr.alabama.gov
1/31/2018	Brad Mitchell	mitchellhands@cablone.net
1/31/2018	Keith Gauldin	keith.gauldin@dcnr.alabama.gov
1/31/2018	Diane Lunsford	johndiane@sbcglobal.net
1/31/2018	Taconya Goar	taconya.goar@dcnr.alabama.gov
1/31/2018	Steve Bryant	steve.bryant@dcnr.alabama.gov
1/31/2018	Mike Holley	mike.holley@dcnr.alabama.gov
1/31/2018	Chris Greene	chris.greene@dcnr.alabama.gov
1/31/2018	Nick Nichols	nick.nichols@dcnr.alabama.gov
1/31/2018	Chris Oberholster	chrisoberholster@birminghamauburn.org
1/31/2018	Keith Henderson	keith.henderson@dcnr.alabama.gov
1/31/2018	Damon Abernathy	
1/31/2018	Cindy Lowry	clowry@alabamarivers.org
1/31/2018	Donna Matthews	donnamat@aol.com



# HARRIS PROJECT RELICENSING

HAT 4

Thursday, September 20, 2018

	Name	Email
✓ 4/24/2018	Chris Smith	<a href="mailto:chris.smith@dcnr.alabama.gov">chris.smith@dcnr.alabama.gov</a>
✓ 4/24/2018	Curt Chaffin	<a href="mailto:cchaffin@alabama.rivers.org">cchaffin@alabama.rivers.org</a>
4/24/2018	Marilyn Lott	<a href="mailto:mlott@randolphcountyeda.com">mlott@randolphcountyeda.com</a>
✓ 4/24/2018	Mitch Reid	<a href="mailto:mitchell.reid@tnc.org">mitchell.reid@tnc.org</a>



# HARRIS PROJECT RELICENSING

## HAT 5 SIGN-UP SHEET

September 20 10:45 AM – 12:00 PM

Recreation

	NAME	EMAIL
1	John Smith	jsmith@email.com
2	Evan Lawrence	Evan.Lawrence@dnr.alabama.gov
3	Butch Jadeson	Butchjadeson60@gmail.com
4	Nick Nichols	Nick.Nichols@dnr.alabama.gov
5	TOM GARLAND	Lgarland68e3ot.com
6	Taconya Goar	
7	Steve Forehand	sforehand@russellends.com
8	IRA PARSONS	IRAPAR@CENTURYTEL.NET
9	Mellie Parush	mhpwidowee@gmail.com
10	Donna Matthews	donna.mat@ad.com
11	Michael Holley	mike.holley@dnr.alabama.gov
12		
13		
14		

Add Butch Jackson  
 Add Nick Nichols  
 Add Steve Forehand  
 Add

Add Elize I to HAT 5

**HARRIS PROJECT RELICENSING**

**HARRIS DAM**  
 RELICENSING

Donna Matthews

**HAT 5**



**Thursday, September 20, 2018**

Add Erza Lawrence ADCNR

	<b>Name</b>	<b>Email</b>
1/31/2018	Coty Brown	coty.brown@alea.gov
1/31/2018	Keith Gauldin	keith.gauldine@dcnr.alabama.gov
1/31/2018	Sylvia French ✓	sandnfrench@gmail.com
✓ 1/31/2018	Taconya Goar	taconya.goar@dcnr.alabama.gov
✓ 1/31/2018	Mike Holley	mike.holley@dcnr.alabama.gov
✓ 1/31/2018	Chris Greene	chris.greene@dcnr.alabama.gov
1/31/2018	Keith Henderson	keith.henderson@dcnr.alabama.gov
1/31/2018	Chris Oberholster	chrisoberholster@birminghamaudubon.org
✓ 1/31/2018	Damon Abernathy	damon.abernathy@dcnr.alabama.gov
1/31/2018	Cindy Lowry <sup>e</sup>	clowry@alabamarivers.org
✓ 1/31/2018	Ira Parsons	irapar@centurytel.net
✓ 4/24/2018	Mitch Reid	mitchell.reid@tnc.org
4/24/2018	Sonja Hollomon	sonjahollomon@gmail.com
4/24/2018	Chris Smith	chris.smith@dcnr.alabama.gov
4/24/2018	Jeff Duncan	jeff_duncan@nps.gov
4/24/2018	Ginny Oxford	goxford@centryllink.net
4/24/2018	Gerry Knight	gerryknight77@gmail.com
4/24/2018	Brad Mitchell	mitchellbands@cablone.net
4/24/2018	Donna Matthews	donnamat@aol.com
✓ 4/24/2018	Tom Garland	tgarland68@aol.com
✓ 4/24/2018	Curt Chaffin	cchaffin@alabamarivers.org