

**MEETING NOTES**

**SOUTH CAROLINA ELECTRIC & GAS COMPANY  
SALUDA HYDRO PROJECT RELICENSING  
RECREATION RESOURCE GROUP**

**LAKE MURRAY TRAINING CENTER  
July 21, 2006**

final dka 08-14-06

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**ATTENDEES:**

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<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>
Alison Guth	Kleinschmidt Associates	Tim Vinson	SCDNR
Dave Anderson	Kleinschmidt Associates	John Frick	landowner
Bill Argentieri	SCE&G	Steve Bell	Lake Watch
Alan Stuart	Kleinschmidt Associates	Regis Parsons	landowner
Tom Eppink	SCANA Services	Tony Bebber	SCPRT
Tommy Boozer	SCE&G	Joy Downs	LMA
David Hancock	SCE&G	Richard Mikell	Adventure Carolina
George Duke	LMHC		

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**HOMEWORK ITEMS:**

- Tony Bebber – check on combining data for the Recreation Participation & Preference Study for four counties around Lake Murray
- Dave Anderson – email web link on Recreation Participation & Preference Study to group
- Entire Group – review and prioritize issues

**PARKING LOT ITEMS:**

- None

**DATE OF NEXT MEETING:**

**October 25, 2006 at 9:30 a.m.  
Located at the Lake Murray Training Center**

**MEETING NOTES**

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**MEETING NOTES:**

*These notes serve to be a summary of the major points presented during the meeting and are not intended to be a transcript or analysis of the meeting.*

Dave Anderson welcomed the group and noted that the purpose of the meeting would be to finalize the Work Plan, Vision Statement, Solution Principles, and begin discussion on the Recreation Plan (attached, dated July 14, 2006). After passing out the working documents, Dave noted that they would begin an interactive session of reviewing each section and make changes as needed. The group began this exercise by separating possible solutions from the Identified Issues in the Work Plan. During this discussion, Tim Vinson noted that he would like to see additional boating access sites on the Lexington side of Lake Murray. David Hancock replied and noted this issue would be covered with the possible creation of a state park on the south side of the reservoir. Tim agreed that this would sufficiently address his issue. The group continued through the document and modified items to ensure that they correctly covered all the issues.

The group briefly discussed whether to cover the issue of Two Bird Cove in the Work Plan. Regis Parsons, a landowner in the cove, was concerned about the recent classification of the cove to a special recreation area. The group decided that since this issue overlapped between the Recreation and Lake and Land Management RCGs, they would mention the item in the Recreation Work Plan, but deal with it primarily in the Lake and Land Management RCG.

As the group progressed through the Work Plan, Dave noted that he had included all of the comments and issues in the draft and, because of this, several items were repeated in the document. The group agreed to remove a few items that were already noted in the document.

After complete review of the Work Plan, the group moved on to discuss the Vision Statement. Dave noted that the Vision Statement can be explained as the over-arching image of the Project in fifty years that guides the group through the tasks set out in the Work Plan.

During discussions on the Vision Statement, John Frick noted that he believed there needed to be an item included that encouraged low density development around the lake, as well as ensuring back property owners access to the lake. The group noted that this was not an issue that pertained to the Recreation Vision Statement and the issue was placed in the Parking Lot for the Lake and Land Management RCG. There were no additional comments on the Vision Statement and the group moved to Solution Principles and made a few changes. All changes made during the meeting are attached (document dated July 21, 2006).

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After a short break, the group began to discuss the Recreation Plan “straw man” (attached). Dave noted that the Recreation Plan is the primary deliverable from the Recreation RCG. Dave reviewed each item in the document. During discussions, it was noted that the new Recreation Participation & Preference Study is available; however, the report does not group the data into the four counties surrounding the Project. Tony Bebbler will check on combining data for the Recreation Participation & Preference Study for the four counties as a homework item.

There was brief discussion regarding the prioritization of recreation sites that were at capacity and looking into expanding existing sites. Dave explained there will be an implementation schedule because, budget-wise, not all improvements could be done at one time. It was also noted that SCE&G and the agencies will meet on a regular basis to discuss the schedule and any priority adjustments. Alan suggested that the meetings be scheduled after the implementation schedule was developed. The group agreed. The group voiced no objections to the direction that the Recreation Plan was headed.

Dave gave a brief update as to the status of the TWCs. He noted the Recreation Assessment Study was started this past spring. He explained that the interviewers have been hired and in place since Memorial Day. Dave also noted that the inventory of existing SCE&G recreation sites has been completed and the database will be ready by the end of the year. Dave also pointed out that as of June 30, they have completed 173 of the 600 sample days and have completed approximately 660 questionnaires. Dave also noted that the TWC recently had discussions regarding the Boat Density Study Plan and the group is going to move forward with this study. He added that both studies will be using the new Recreation Participation & Preference Study funded by SCPRT and noted he would send the web link to the group.

Finally, Dave explained that there was a study plan currently under internal review that will be submitted to the Downstream Flows TWC for approval. Dave asked the group if there were questions on any of the studies mentioned. George Duke noted that he was a little concerned with the use of a 1977 study as a baseline for the Boat Density Study. Dave replied the 1977 procedures are generally used throughout FERC relicensings when performing a boat density study. He noted that they use the values for water skiing when applying values to jet skis because jet skis were not around in 1977. Dave also added that they have an idea of the number of jet skis from the interviews at the recreation sites. George also expressed concern that since 2006 was a drought year, accurate boat counts would not be attained. Dave noted that they would be using 2001 photography to obtain the counts.

Dave concluded the meeting and reviewed the homework assignments. He noted that before the next meeting the group should review and prioritize those issues that do not need the results of the studies currently taking place. The next Recreation RCG meeting was set for October 25<sup>th</sup>, 2006.

**MEETING NOTES**

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**Saluda Hydro Relicensing  
Recreation Resource Conservation Group**

**Meeting Agenda**

**July 21, 2006  
9:30 AM**

**Lake Murray Training Center**

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- **9:30 to 10:30** Finalize Recreation RCG Work Plan (Dave Anderson)
- **10:30 to 10:45** BREAK
- **11:00 to 12:00** Finalize Recreation Vision Statement (Dave Anderson)
- **12:00 to 1:00** LUNCH
- **1:00 to 1:30** Finalize Solution Principles (Dave Anderson)
- **1:30 to 2:00** Discussion of Recreation Plan Straw Man (Dave Anderson)
- **2:00 to 2:10** BREAK
- **2:10 to 2:30** Update on TWCs (Dave Anderson)
- **2:30 to 2:45** Develop an Agenda for Next Meeting and Set Next Meeting Date

Adjourn



# Recreation Resource Conservation Group

## Working Documents

July 14, 2006



# Recreation Resource Conservation Group Work Plan

DRAFT

<b>Facilitator:</b>		
Dave Anderson	Kleinschmidt Associates	dave.anderson@kleinschmidtusa.com
<b>Members:</b>		
Name	Organization	E-mail
Alan Axson	Columbia Fire Department	cfdwaxson@columbiasc.net
Alan Stuart	KA	alan.stuart@kleinschmidtusa.com
Alison Guth	KA	alison.guth@kleinschmidtusa.com
Amanda Hill	USFWS	amanda_hill@fws.gov
Bill Argentieri	SCE&G	bargentieri@scana.com
Bill Marshall	Lower Saluda Scenic River Advisory Council, DNR	marshallb@dnr.sc.gov
Charlene Coleman	American Whitewater	cheetahtrk@yahoo.com
Charles (Charlie) Rentz		flyhotair@greenwood.net
David Hancock	SCE&G	dhancock@scana.com
Dick Christie	SCDNR	dchristie@infoave.net
George Duke	LMHC	kayakduke@bellsouth.net
Gerrit Jobsis	Coastal Conservation League & American Rivers	gerritj@sccl.org; gjobsis@americanrivers.org
Guy Jones	River Runner Outdoor Center	guyjones@sc.rr.com
Irvin Pitts	SCPRT	ipitts@scprt.com
James A. Smith	LMA	bkawasi@sc.rr.com
Jeff Duncan	National Park Service	jeff_duncan@nps.gov
Jennifer O'Rourke	South Carolina Wildlife Federation	jenno@scwf.org
Jennifer Summerlin	Kleinschmidt Associates	jennifer.summerlin@kleinschmidtusa.com
Jim Devereaux	SCE&G	jdevereaux@scana.com
JoAnn Butler	resident	jbutler@scana.com
Joy Downs	Lake Murray Assn.	elymay2@aol.com
Karen Kustafik	City of Columbia Parks and Recreation	kakustafik@columbiasc.net
Keith Ganz-Sarto		keith_ganz_sarto@hotmail.com
Kelly Maloney	Kleinschmidt Associates	kelly.maloney@kleinschmidtusa.com
Larry Michalec	Lake Murray Homeowners Coalition	lmichalec@aol.com
Larry Turner	SCDHEC	turnerle@dhec.sc.gov
Leroy M. Barber Jr.	LMA	lbarber@sc.rr.com
Malcolm Leaphart	Trout Unlimited	malcolml@mailbox.sc.edu
Mark Leao	USFWS	mark_leao@fws.gov
Marty Phillips	Kleinschmidt Associates	marty.phillips@kleinschmidtusa.com
Michael Waddell	TU - Saluda River Chapter	mwaddell@esri.sc.edu
Miriam S. Atria	Capitol City Lake Murray Country	miriam@lakemurraycountry.com
Norman Ferris	Trout Unlimited	norm@sc.rr.com
Patricia Wendling	LMA	wwending@sc.rr.com
Patrick Moore	SCCCL AR	patrickm@sccl.org
Ralph Crafton	LMA	crafton@usit.net
Randy Mahan	SCANA	rmahan@scana.com
Richard Mikell	Adventure Carolina	adventurec@mindspring.com
Stanley Yalicki	LMA	joyyalicki@aol.com
Steve Bell	Lake Murray Watch	bellsteve9339@bellsouth.net
Suzanne Rhodes	SC Wildlife Federation	suzrhodes@juno.com
Tim Vinson	SCDNR	vinson@dnr.sc.gov
Tom Brooks	Newberry Co.	tbrooks@newberrycounty.net
Tommy Boozer	SCE&G	tboozer@scana.com
Tony Bebbber	SCPRT	tbebbber@scprt.com
Van Hoffman	SCANA Land Mgt.	vhoffman@scana.com

# Recreation Resource Conservation Group Work Plan

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## Mission Statement

The mission of the Recreation RCG is to ensure adequate and environmentally-balanced public recreational access and opportunities related to the Saluda Hydroelectric Project for the term of the new license. The objective is to assess the recreational needs associated with the lower Saluda River and Lake Murray and to develop a comprehensive recreation plan to address the recreation needs of the public for the term of the new license. This will be accomplished by collecting and developing necessary information, understanding interests and issues and developing consensus-based recommendations.

## Identified Issues

- ~~ensure that recreational facilities and opportunities are protected and enhanced for current and future users, on and near the lake and river~~
  - ~~support creation of public access sites and greenway-trail concepts as proposed in the Lower Saluda River Corridor Plans of 1990 and 2000, which include a linear park and trail system on north bank of river connecting Saluda Shoals Park to Gardendale Landing and to Riverbanks Zoo; and a park/preserve on the south side of river at Twelve-mile Creek~~
  - access site above the Mill Race rapids (~~encompassed within LSR Corridor Plan item, above~~)
  - creation of a state park on the south side of the reservoir
  - creation of a multi-lane boating facility that can accommodate large tournaments
  - ~~boating access~~
  - non-boating access
  - paddling access
  - expansion of existing ~~SCE&G and public commercial~~ facilities to accommodate future growth
  - security at recreation facilities
  - ~~sufficient egress points on lower Saluda River~~
  - ~~fishing opportunities for non-boaters~~
  - ~~A riverfront greenway trail is wanted by the community as expoused by the River Alliance. Assistance by SCE&G will in making this trail a reality will also help by opening up many areas of the river now only reached by boat, or by trespassing. The River Alliance has proposed a trail to extend up the north shore of the Saluda from the Riverbanks Zoo to I26. Continuation of the trail to Saluda Shoals, connecting the Gardendale site and an additional access area between I20 and I26 is also envisioned by the LSRAC and Saluda Shoals. Also, there is no legal access except by boat to the stretch of river upstream of the rapids above Saluda Shoals which should be remedied with a riverfront trail connection if possible, or through seperate access. The trail should parallel the river and not disturb the scenic integrity of the riverbank, but should allow for sufficient viewsapes and even water access by foot, especially to the popular, shallower riffle areas.~~

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## Recreation Resource Conservation Group Work Plan

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- consideration of a boat ramp for small trailered boats at Gardendale or further downstream, but above I26, to allow safer upstream motoring towards Hopes Ferry. Many boaters have carried in their heavy rigs for years at the Gardendale 'throw-in' to be able to more safely boat the Saluda.
- public access with parking and trails on the Lexington (south) side such as the public park at the confluence of 12 Mile Creek and the Saluda River proposed in the Corridor Plan by SC PRT and the SC DNR (Lower Saluda River Advisory Council).
- safe recreational opportunities should be available on the Saluda below the lake through daily flow release schedules, and with release rates deemed to be not life threatening through a controlled study using river experts and stakeholders.
- conservation of lands to protect the scenic integrity of the Project and to provide wildlife habitat areas
- using the concept of adaptive management in future recreation planning
- creation of a communication system that would encompass information to better inform the public of existing and projected conditions regarding lake levels and river flows as related to anticipated hydro operations and maintenance Deleted: on
- protection of the cold water fishery on the lower Saluda River Deleted: Lower
- identification of flows needed for the lower Saluda River to support a variety of recreational uses
- creation of scheduled recreation flows for the lower Saluda River Deleted: Lower
- identification of a reliable lake level that will provide year round access for a majority of lake users
- consideration of The Lower Saluda River Corridor Plan and the Lower Saluda Scenic River Corridor Plan Update and their related public access sites and greenway-trail concepts
- identification and conservation of undeveloped shoreline and adjacent land for recreational use
- management of river flows to improve safety for river users (coordinate with Safety RCG)
- minimum flows to provide for recreational navigation and to protect and enhance aquatic life in river (coordinate with Fish and Wildlife RCG)

### RCG Tasks and Responsibilities

- Utilizing and modifying the Standard Process for evaluating and addressing recreation management and access issues specific to the Saluda Project, including developing a vision statement for the Project.
- Identifying specific areas where lake and river levels, river flows, and/or lake and river level fluctuations may be adversely affecting recreation including the nature and timing of the effect (e.g., access to sections of water, access to facilities, and aesthetics). Deleted: level Deleted: at the lake,
- Identifying specific areas where river flow changes may be adversely affecting recreation along the river, including the nature and timing of the effect (e.g., access to and safe use of sections of river).
- Working with the Operations Resource Conservation Group to identify “reasonable” (based on hydrologic, structural, and other limitations identified) changes in Project operations that would benefit recreation. Deleted: and alternatives for modifying project operations, including



## Recreation Resource Conservation Group Work Plan

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- Working with the Safety RCG and the Fish and Wildlife RCG to coordinate actions on issues of mutual interests such as river flows, lake levels, and the siting and management recreational facilities.
- Identifying any studies, if applicable, that need to be performed for identifying and/or evaluating (1) changes to Project operations, (2) enhancements to existing facilities, and (3) creation of new facilities to provide for public recreational access and opportunities.
- Make recommendations to the Lake and Land Management RCG to ensure adequate project lands are retained to meet recreational needs.
- Presenting a range of reasonable alternatives or recommendations to the Saluda Hydro Relicensing Group (SHRG) regarding modifications to facilities or current Project operations, needs for additional future access and facilities, and provide recommendations for recreation access, facilities, and use.

### Work Scope and Product

- **Task 1** – Utilize the stepwise process diagram and solution principles to guide the planning process for addressing recreation management issues at the Saluda Project.
- **Task 2** – Develop a Vision Statement for the Saluda Project.
- **Task 3** – Review the operational constraints and current operations of the Saluda Project (see Initial Consultation Document).
- **Task 4** – Answer the list of questions on the Standard Process Form in order to characterize the existing and potential future condition of access and lake levels and river flows – from a recreation setting perspective.
- **Task 5** – Review stakeholder requests for particular studies and/or enhancement measures to ensure that these are incorporated into study planning, if applicable
- **Task 6** – Develop and recommend operation scenarios to the Operations RCG for analysis. These scenarios should reflect initial thinking on potential solutions and be designed to narrow the focus of Task 10 below. Analysis by the Operations RCG will focus on an assessment of potential recreational impacts associated with any suggested changes to operations.
- **Task 7** – Discuss results of the Operations RCG analyses.
- **Task 8** – Develop study designs/methods/plans and review agreed upon studies, literature reviews, etc.
- **Task 9** – Check the solution principles to ensure proposed study plans are consistent.
- **Task 10** – Provide recommendations for Project operations and recreation access, facilities, and use to be considered in conjunction with all ecological (including water quality), recreational, and safety issues.
- **Task 11** – Develop a consensus based Recreation Plan for the Saluda Project that addresses all of the issues and tasks identified above.

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## Recreation Resource Conservation Group Work Plan

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### Schedule

**Late 2005/Early 2006**—Finalize Mission Statement, Standard Process Form, Solution Principles, and Work Plan

**Mid-2006**—Complete identification of studies, literature reviews, etc. that need to be completed to address issues and tasks identified in the Work Plan

**Late 2006**—Begin compilation of existing information, review preliminary study results, and draft an outline of the Recreation Plan

**2007**—Complete any studies identified in Task 8 and review results; draft recommendations to SHRG, complete draft Recreation Plan

**2008**—Finalize Recreation Plan and provide comments on Draft License Application

## Recreation Vision Statement for the Saluda Project

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The long-term vision for the Saluda Project is to recognize, protect, and enhance the fishery, water quality, aesthetic values, cultural resources, and public recreational opportunities on the reservoir and the Lower Saluda River, while recognizing the need to protect habitat supporting threatened, endangered, and sensitive species of Lake Murray and the lower Saluda River, and ensure adequate facilities and public access are provided. Given the size of the reservoir/hydro-project area, it is felt that it can continue to support a diversity of recreation opportunities. Recognizing that needs and demands will change, recreational uses will be monitored and managed to balance access/uses with the protection of natural resources and environmental quality; and planning for new facilities and management schemes will remain adaptive to changes.

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Recreational opportunities for Lake Murray and the lower Saluda River over the next 30 to 50 years of the pending new FERC license for SCE&G should incorporate the following attributes:

- Recreational sites access areas on the lake and the river should be adequate to allow for the continued rapid population growth in the midlands over the term of the new license based on surveys of the public and input from the stakeholders and public.
- Sites should be spaced around the lake and along the river corridor to provide legal public access to the different geographic sections of both.
- Uncrowded conditions should be available most of the time at the sites, with natural viewsapes and provisions for most of the current and anticipated popular recreational activities incorporated into the overall provisions.
- Patrols and/or assistance for emergencies should be provided, though not necessarily manned, such as adequate phone boxes.
- Safe recreational opportunities should be available for boaters on the lake with adequate lake levels for the navigational markers, and on the river with release levels that are not life-threatening to the average person.
- The recommendations of the Lower Saluda Scenic River Advisory Council should be implemented to reflect the broad community-based consensus for river access, with consideration of additional river access to areas where trespassing is now the only way to enter an area.

Improvements to be considered at the Saluda Project include:

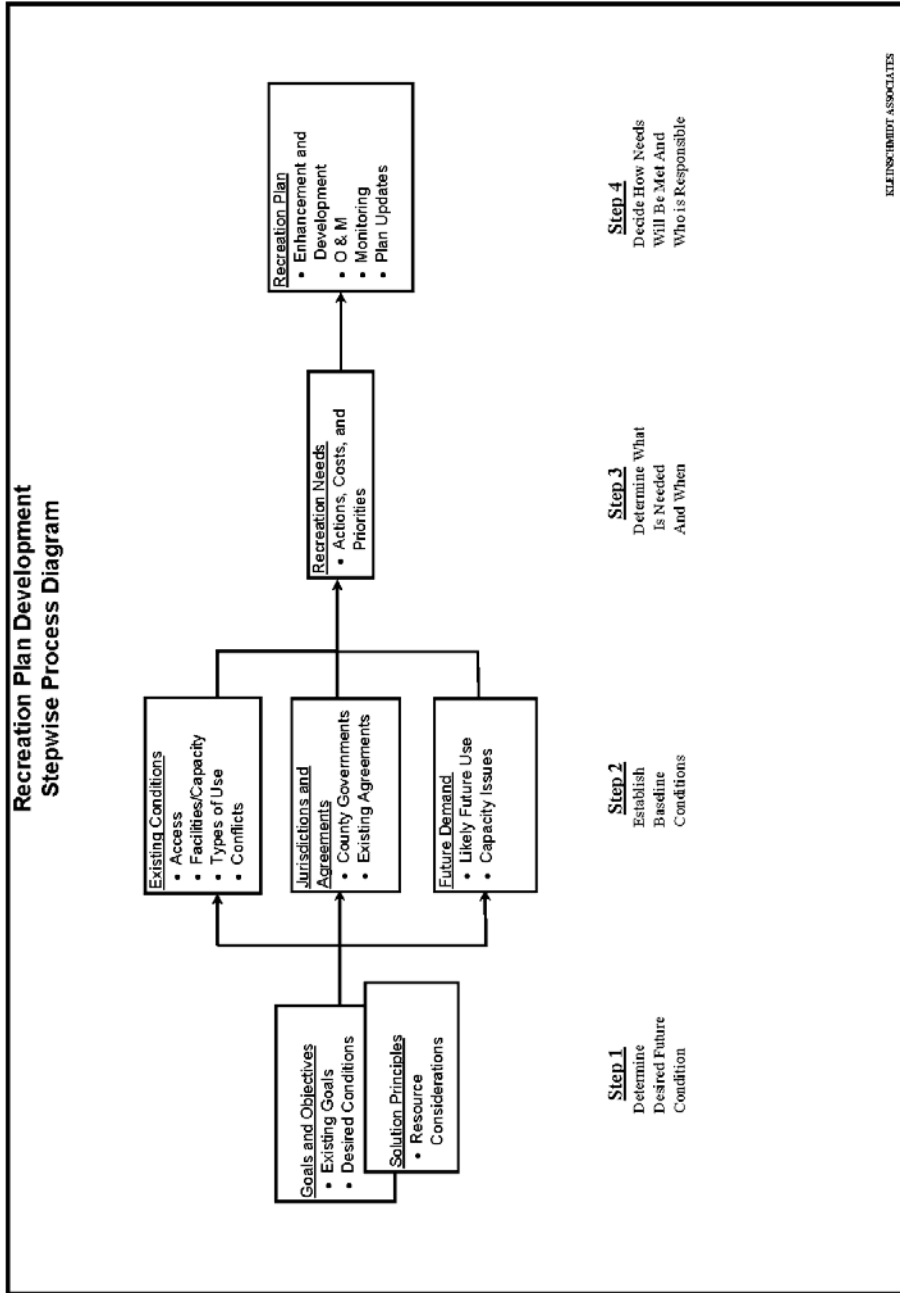
- Evaluation of SCE&G-owned Project lands for possible reclassification for recreation activities.
- Providing appropriate operations and maintenance of public recreation facilities.
- Optimizing the capacity of existing public recreation facilities to accommodate existing and future demand.

## Recreation Vision Statement for the Saluda Project

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- Improving access and safety in the public waters below the dam and minimizing impacts of project operations on downstream recreation, recognizing the need to meet power generation, and downstream flow responsibilities at Saluda. Deleted: ly  
Deleted: accessible
- Managing lake level drawdowns so as to optimize safety and recreational opportunities. Deleted: minimize the occurrence of surface elevations lower than 354' in the late summer and early fall
- Managing river flows so as to optimize safety and recreational opportunities.
- Ensuring public access areas for the non-boating public remain available along the lake and river shorelines.
- Development of new facilities in accordance with the comprehensive plan as the need arises. Deleted: if a proven

Stepwise Process Diagram



### Solution Principles

Consideration of new recreational facilities should be based on demonstrated need and the potential impact on existing facilities.

1. Priority should be given to demonstrated need within the FERC project boundary.
2. Priority should be given to recreational proposals where multiple stakeholders offer significant participation.
3. Recreational facilities should appeal to a broad public.
4. Reasonable access for the disabled should be provided.
5. Recreational needs should be prioritized for the project.
6. The improvement or expansion of existing recreational facilities should be considered first.
7. Additional recreational studies (if needed) should be only of sufficient scope and duration to provide necessary information to develop issue solutions.
8. Consensus based solutions are preferred over studies, unless solutions cannot be developed with existing information.
9. A schedule of proposed improvements should be considered so that all costs are not in the first few years of the new license.
10. A process should be developed to adjust proposed improvements over the 30+ year time frame approximately every 7 to 10 years to account for changing needs. This should include the ability to trade a new needed facility for a proposed (but not built) facility of approximately the same cost.
11. Sufficient “future recreational” land should be set aside now to handle the recreational needs of 30+ years.

Preferred consideration will be given to ideas that:

- do not promote facilities that would adversely impact existing commercial operations;
- identify actual recreational needs that are not filled by existing facilities;
- receive broad public support;
- expand existing recreational facilities prior to developing green field sites;

## Recreation Plan Development

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- require doing recreational studies only if consensus cannot be reached with existing information (It is preferred to put financial resources into recreational facilities and opportunities that benefit the overall Project, rather than fund unnecessary/subjective studies).

Standard Process Form

The following is a list of standard questions designed to help characterize existing recreation resources and aid in development of an appropriate recreation plan for the Saluda Project. Questions pertaining to recreation management are categorized according to the four-step recreation plan stepwise process diagram developed for the project. Questions pertaining to reservoir levels and downstream flows are listed following the facility management material.

**STEP 1 – DETERMINE DESIRED FUTURE CONDITION**

1. Identify Lake Murray and/or Lower Saluda River (LSR) qualities important to keep and any qualities that need changes.

Change:

Relative water level stability

Predictability – desire flows in river to be more predictable; desire advanced notice of flows to be available to public

Accessibility and amenities (boardwalk accessible from land and water)

Water quality – desire to resolve DO problems in the tailrace and in the reservoir

Minimum flow – desire minimum flow standards that will protect aquatic health in river

Management of flow increases – desire slower rates for increasing flows in river to increase margin of safety for downstream river users

Keep:

Water quality

Natural shoreline and riverbanks

Undeveloped lands remain undeveloped

Aesthetics

Fishing opportunities

Hunting opportunities

Wildlife watching

Living on lake/river

Solitude

Keep islands natural

Safety/security

Public-private balance

Shoreline Management Program

Contingency reserve capacity

2. Are there unique characteristics of Lake Murray and/or the LSR relative to other reservoirs/tailraces in the area?

Location – near and within metropolitan area

Size

Uninterrupted by bridges

Amount of land owned by SCE&G



Extensive shoreline  
Usable/accessible shoreline  
Purple Martin habitat  
Whitewater paddling in river  
Cold water fisheries in river

3. What is the overall vision for Lake Murray and/or the LSR, in terms of recreation experiences and opportunities?

Insert Final Vision Statement

4. Are there sensitive biological or cultural resources associated with the Project that need to be considered? Where are these resources located and are there seasonal sensitivities (e.g., nesting or spawning times, etc.)?

ESA  
Lands that support wildlife habitat  
See Cultural RCG  
Rocky shoals spider lily; Saluda River  
Spawning, migrating fishes; lower Saluda and Congaree River  
Trout; lower Saluda

5. Identify specific goals and objectives for managing recreation at Lake Murray and/or in the LSR.

Lake levels  
River levels and flows  
Minimum flows to support aquatic community health and recreational uses in the river  
Recreational flows  
Management of flow changes from the hydro to improve safety for downstream river users  
Scheduled recreational releases  
Knowledge of current and anticipated generation releases made accessible to the public  
Park on Lexington side of lake  
Park/preserve on Lexington side of river at Twelve-mile Creek as describe in LSR Corridor Plan  
Provide takeout point above Zoo at Millrace Rapids  
LSR greenway trail described in LSSR Corridor Plan Update (involves River Alliance/City of Columbia and ICRC/Saluda Shoals Park)  
Assure long term stability of Billy Dreher Island, Flotilla Island, and Saluda Shoals Park  
Large tournament facility  
Reasonable avoid negatively impacting commercial facilities  
Conservation of existing project lands for wildlife and scenic values  
Estimate current and future recreational use of reservoir and river  
Year-round access for recreation sites

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## **STEP 2 – ESTABLISH BASELINE CONDITIONS**

## Recreation Plan Development

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6. What is the nature of existing recreational access to Lake Murray and the LSR?
  - a. How many public accessible, developed recreation sites are there?
  - b. Where are they located/how are they distributed around the Project?
  - c. Of these publicly accessible access sites how many are owned and operated by public versus private entities and how are they supervised?
  - d. How many sites, open to the public, provide boat access to the reservoir and the LSR?
  - e. How many provide shoreline fishing?
  - f. Identify the most heavily used facilities.
  - g. Are there informal, undeveloped use areas? Where are they?
7. What types of existing developed facilities are there?
  - a. Enumerate boat ramps, restrooms, docks, and other facilities.
  - b. What is the existing capacity at each site?
  - c. What is the general condition of each site and its facilities?
  - d. Ideas for improving existing facilities.
8. Describe notable recreation activities on Lake Murray and/or the LSR.
  - a. List recreation activities currently occurring and identify most prominent activities.

Greatest activity is independent family recreation, including many forms of boating, waterskiing, swimming/sunbathing, fishing, picnicking, and camping.

Solitary wade fishing in river.

Bank fishing at public sites and impromptu sites in the lake and river.

Small and large bass tournaments.

Motor boating

Sailing

Fishing from boats

Fishing from banks

Wade fishing

Swimming and sunning

Picnicking

Canoeing and kayaking (flatwater and whitewater)

Floating with tubes and rafts

- b. Where are these uses occurring, and are they concentrated in certain areas?

Lower Saluda River supports all above activities except sailing

Whitewater boating concentrated on Saluda River below I-26 Bridge

Swimming and sunning on Lower Saluda concentrated at Riverbanks Zoo area; and will expand upriver when greenway trail opens in 2007

Wade fishing concentrated at shoal areas of lower River: at least four areas along river

- c. Identify existing impediments to these activities, if any.

## Recreation Plan Development

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Dramatic river fluctuations are impediments to recreational activities along the lower Saluda River.

9. Are there known management issues associated with use?
  - a. Are there areas of congestion, and if so where?
  - b. Are there known conflicts between users, and if so where and when?

Fishing tournaments are disruptive to other boaters and residents. There needs to be an established, enforced protocol for organizes fishing tournaments.  
Jet skis and large motorboats are disruptive to anglers, other boaters, and residents.

- c. Are there other known management issues, such as littering, trespassing, etc.?

Enforcement of established rules are limited by funding, staffing, and political boundaries.

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- d. Are there known issues regarding recreational safety?

Wade fishing, canoeing/kayaking, and other water contact and bank use is often dangerous due to river fluctuations in water levels on the Lower Saluda River.

10. What is the expected future demand for recreation activities at Lake Murray?
  - a. Will existing facility capacity likely be exceeded, and if so where and when?
  - b. Would accommodating this demand be consistent with the long-term vision for the reservoir?
  - c. Will demand introduce new or additional congestion, conflicts, or other management issues?

11. Identify current local benefits from recreation and any local detriments.

### **STEP 3 – DETERMINE WHAT IS NEEDED AND WHEN**

12. Ideas for better or different access, consistent with Step 2 above.
13. Potential facility enhancements or upgrades, consistent with Step 2 above.
14. Potential new facilities, or other management actions, consistent with Step 2 above.
15. What are the priorities regarding identified needs both in terms of resources and time? How do priorities compare across the entire Project?

### **STEP 4 – DECIDE HOW NEEDS WILL BE MET AND WHO IS RESPONSIBLE**

### **QUESTIONS REGARDING RESERVOIR LEVELS**

## Recreation Plan Development

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16. How is the Project currently operated and what are the typical reservoir levels during key recreation seasons?

- SCE&G operates Saluda Hydroelectric Project as a multi-purpose project. The seasonal changes in elevations provide hydroelectric generation, maintenance of downstream water quality, a unique tailrace fishery, and municipal/industrial water supply.
- SCE&G has a verbal agreement with SCDHEC for a minimum flow of 180 cfs.
- During the low DO season which generally runs from late June to early December, SCE&G will try to maintain a minimum flow of 400 – 500 cfs to help maintain a higher level of DO in the Lower Saluda River.
- From April through the end of August the lake is operated near the normal operating high water level of el. 358 ft Plant Datum (PD). Maximum full pool is el. 360.
- Drawdown begins near the end of August or early September and ends in late December near the winter pool level of 350 - 352 ft PD. This allows additional storage capacity in anticipation of the late winter and early spring rainy season.
- At the beginning of January the lake is allowed to refill during the rainy season so it will be at the normal operating high water level of 358 ft. PD by April.
- The plant normally schedules power operations for contingency reserve to meet our obligation to the Virginia/Carolinas Reserve Sharing Group (VACAR), a member of the Southeastern Electric Reliability Council (SERC), which is governed by the North American Electric Reliability Council (NERC). During the fall and in anticipation of heavy rains from a tropical storm or hurricane the plant will generate as necessary to manage the lake level, system reserve, and emergency generation requirements.
- Power generation may be increased to allow SCE&G to meet their obligations of contingency reserve as part of our VACAR agreement with neighboring utilities.

17. Are there changes to Project operations that you would like to see addressed to improve the overall value of the reservoir, and how specifically would such changes benefit recreation?

- What minimum lake elevation will provide recreational benefits during each season of the year?
- Current reservoir level operations balance the multi-purpose use of the reservoir. Maintaining the existing reservoir level fluctuations would allow for continued water level management through daily and weekly power generation operations however recreation would see no additional benefits. Conversely, limiting the seasonal fluctuation may have recreational benefits but other project purposes would be compromised (power generation, water level management, water quality maintenance, and aquatic weed control).

18. Are there seasonal and/or daily variations in reservoir level that can occur without adversely affecting the overall value of the project (including impoundment objectives such as recreation, fish and wildlife, flood control, generation, navigation, etc.)?

- There are not large daily fluctuations at the Saluda Hydroelectric Project.

19. What are the reservoir levels at which recreation problems tend to occur (may be different for different locations or problems)?

## Recreation Plan Development

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- There appears to be a potential impact to recreational resources when the lake level is lower.
- SCE&G already extended boat ramps at several of their public access parks to accommodate a water level down to el. 345 ft PD.

20. When (i.e., what time of year) and how frequently do problems occur related to reservoir levels?

- In general, the operation of Saluda Hydroelectric Project has been consistent throughout the years except for 1990, 1996, 2002 – 2004, and 2006. During those years the lake level was lowered to around el. 345 – 348 ft PD for the following project maintenance requirements:
  - 1990 – Intake towers maintenance
  - 1996 – Hydrilla control as requested by SCDNR
  - 2002 – 2004 – FERC Order for safety during dam remediation project
  - 2006 – Upstream riprap repair
- It will be necessary to lower the lake level to around el. 345 ft PD in the future for maintenance of project structures and installing new recreational access.

21. Why are the current operating water levels important to the operation of the project and the overall system?

- The Saluda Hydroelectric Project is a multi-purpose reservoir. The current operating water levels are critical for the project to meet its required purposes. The changes in water level have many beneficial impacts both upstream and downstream of the dam :
- The project is used to meet our contingency reserve capacity obligation as part of the VACAR agreement. This is for a loss on our own system or by one of our neighboring Reserve Sharing Group utilities.
- Electricity (inexpensive, clean, renewable)
- Electric system ancillary services (transmission line maintenance & overload protection, security resource for VCS Nuclear Statino)
- Navigation support
- Trout fishery
- Downstream water quality and aquatic habitat
- Municipal and industrial water supply

22. Are there state or federal operating requirements that stipulate specific operating goals?

- SCE&G and SCDHEC have an agreement to discharge a minimum flow of 180 cfs from the project.
- Article 12 of the FERC license requires that reservoir levels and discharge from storage be controlled by reasonable rules and regulations of the Commission for the protection of life, health, and property and for other beneficial public uses including recreational purposes.
- Exhibit H of the latest FERC license application identifies the lower lake level to be Elev. 350 during normal flow years and Elev. 345 during low flow years.

- Our McMeekin Generating Station NPDES permit requires a minimum of 2,500 cfs discharge from Saluda prior to discharging the fossil plant circulating water return directly into the Lower Saluda River.

**QUESTIONS REGARDING DOWNSTREAM FLOWS**

23. Are there riverine recreation opportunities below the dam? If yes, move to additional questions, if not, stop.

Yes, trout fishing (wading, bank, boat), striper fishing (wading, bank, boat), canoeing/kayaking, tubing, sunbathing/swimming/rock hopping, picnicking, walking/hiking, bicycling, wildlife watching.

24. Do we know how different flow levels affect recreation opportunities and specific recreation activities?

25. Can opportunities be enhanced by modifying releases, and in what way?

26. How would modified releases affect upstream lake levels?

27. How would suggested modified downstream flows affect project operations at the project and at upstream and downstream projects?

28. Are there additional concerns with regard to state and federal requirements or existing ecological issues that limit suggested changes to downstream flows?

29. How binding is the VACAR agreement and when does it expire? (I notice that it is not listed in the state/federal operating requirements in Question 22).

# Recreation Resource Conservation Group

## Working Documents

~~July 21, 2006~~

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# Recreation Resource Conservation Group Work Plan

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<b>Facilitator:</b>		
Dave Anderson	Kleinschmidt Associates	dave.anderson@kleinschmidtusa.com
<b>Members:</b>		
Name	Organization	E-mail
Alan Axson	Columbia Fire Department	cfdwaxson@columbiasc.net
Alan Stuart	KA	alan.stuart@kleinschmidtusa.com
Alison Guth	KA	alison.guth@kleinschmidtusa.com
Amanda Hill	USFWS	amanda_hill@fws.gov
Bill Argentieri	SCE&G	bargentieri@scana.com
Bill Marshall	Lower Saluda Scenic River Advisory Council, DNR	marshallb@dnr.sc.gov
Charlene Coleman	American Whitewater	cheetahtrk@yahoo.com
Charles (Charlie) Rentz		flyhotair@greenwood.net
David Hancock	SCE&G	dhancock@scana.com
Dick Christie	SCDNR	dchristie@infoave.net
George Duke	LMHC	kayakduke@bellsouth.net
Gerrit Jobsis	Coastal Conservation League & American Rivers	gerritj@sccl.org; gjobsis@americanrivers.org
Guy Jones	River Runner Outdoor Center	guyjones@sc.rr.com
Irvin Pitts	SCPRT	ipitts@scprt.com
James A. Smith	LMA	bkawasi@sc.rr.com
Jeff Duncan	National Park Service	jeff_duncan@nps.gov
Jennifer O'Rourke	South Carolina Wildlife Federation	jenno@scwf.org
Jennifer Summerlin	Kleinschmidt Associates	jennifer.summerlin@kleinschmidtusa.com
Jim Devereaux	SCE&G	jdevereaux@scana.com
JoAnn Butler	resident	jbutler@scana.com
Joy Downs	Lake Murray Assn.	elymay2@aol.com
Karen Kustafik	City of Columbia Parks and Recreation	kakustafik@columbiasc.net
Keith Ganz-Sarto		keith_ganz_sarto@hotmail.com
Kelly Maloney	Kleinschmidt Associates	kelly.maloney@kleinschmidtusa.com
Larry Michalec	Lake Murray Homeowners Coalition	lmichalec@aol.com
Larry Turner	SCDHEC	turnerle@dhec.sc.gov
Leroy M. Barber Jr.	LMA	lbarber@sc.rr.com
Malcolm Leaphart	Trout Unlimited	malcolml@mailbox.sc.edu
Mark Leao	USFWS	mark_leao@fws.gov
Marty Phillips	Kleinschmidt Associates	marty.phillips@kleinschmidtusa.com
Michael Waddell	TU - Saluda River Chapter	mwaddell@esri.sc.edu
Miriam S. Atria	Capitol City Lake Murray Country	miriam@lakemurraycountry.com
Norman Ferris	Trout Unlimited	norm@sc.rr.com
Patricia Wendling	LMA	wwending@sc.rr.com
Patrick Moore	SCCCL AR	patrickm@sccl.org
Ralph Crafton	LMA	crafton@usit.net
Randy Mahan	SCANA	rmahan@scana.com
Richard Mikell	Adventure Carolina	adventurec@mindspring.com
Stanley Yalicki	LMA	joyyalicki@aol.com
Steve Bell	Lake Murray Watch	bellsteve9339@bellsouth.net
Suzanne Rhodes	SC Wildlife Federation	suzrhodes@juno.com
Tim Vinson	SCDNR	vinson@dnr.sc.gov
Tom Brooks	Newberry Co.	tbrooks@newberrycounty.net
Tommy Boozer	SCE&G	tboozer@scana.com
Tony Bebbber	SCPRT	tbebbber@scprt.com
Van Hoffman	SCANA Land Mgt.	vhoffman@scana.com



# Recreation Resource Conservation Group Work Plan

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## Mission Statement

The mission of the Recreation RCG is to ensure adequate and environmentally-balanced public recreational access and opportunities related to the Saluda Hydroelectric Project for the term of the new license. The objective is to assess the recreational needs associated with the lower Saluda River and Lake Murray and to develop a comprehensive recreation plan to address the recreation needs of the public for the term of the new license. This will be accomplished by collecting and developing necessary information, understanding interests and issues and developing consensus-based recommendations.

## Identified Issues

- ensure that recreational facilities and opportunities are protected and enhanced for current and future users, on and near the lake and river
  - boating access, including future access on Lexington side of lake
  - non-boating access
  - paddling access
  - security at recreation facilities
  - sufficient egress points on lower Saluda River
  - fishing opportunities for non-boaters
- conservation of lands
  - protect the scenic integrity of the Project
  - provide wildlife habitat areas, and
  - provide formal and informal (impromptu areas) recreational opportunities
    - consideration of Two Bird Cove and Hurricane Hole Cove (special recreation designation areas) classification
- using the concept of adaptive management in future recreation planning
- River flows
  - safe recreational opportunities should be available on the Saluda below the lake through daily flow release schedules, and with release rates deemed to be not life threatening through a controlled study using river experts and stakeholders.
  - lack of scheduled recreation flows for the lower Saluda River
  - management of river flows to improve safety for river users (coordinate with Safety RCG)
  - minimum flows to provide for recreational navigation and to protect and enhance aquatic life in river (coordinate with Fish and Wildlife RCG)
- lack of a communication system that would encompass information to better inform the public of existing and projected conditions regarding lake levels and river flows as related to anticipated hydro operations and maintenance
- protection of the cold water fishery on the lower Saluda River
- impacts of lake level on recreational use of the lake
- consideration of The Lower Saluda River Corridor Plan and the Lower Saluda Scenic River Corridor Plan Update and their related public access sites and greenway-trail concepts

## Possible Resolution

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<#>access site above the Mill Race rapids (encompassed within LSR Corridor Plan item, above)¶  
<#>creation of a state park on the south side of the reservoir¶  
<#>creation of a multi-lane boating facility that can accommodate large tournaments¶

**Inserted:** <#>support creation of public access sites and greenway-trail concepts as proposed in the Lower Saluda River Corridor Plans of 1990 and 2000, which include a linear park and trail system on north bank of river connecting Saluda Shoals Park to Gardendale (... [1]

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## Recreation Resource Conservation Group Work Plan

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- support creation of public access sites and greenway-trail concepts as proposed in the Lower Saluda River Corridor Plans of 1990 and 2000, which include a linear park and trail system on north bank of river connecting Saluda Shoals Park to Gardendale Landing and to Riverbanks Zoo; and a park/preserve on the south side of river at Twelve-mile Creek
- access site above the Mill Race rapids (encompassed within LSR Corridor Plan item, above)
- creation of a state park on the south side of the reservoir
- creation of a multi-lane boating facility that can accommodate large tournaments
- A riverfront greenway trail is wanted by the community as expoused by the River Alliance. Assistance by SCE&G will in making this trail a reality will also help by opening up many areas of the river now only reached by boat, or by trespassing. The River Alliance has proposed a trail to extend up the north shore of the Saluda from the Riverbanks Zoo to I26. Continuation of the trail to Saluda Shoals, connecting the Gardendale site and an additional access area between I20 and I26 is also envisioned by the LSRAC and Saluda Shoals. Also, there is no legal access except by boat to the stretch of river upstream of the rapids above Saluda Shoals which should be remedied with a riverfront trail connection if possible, or through separate access. The trail should parallel the river and not disturb the scenic integrity of the riverbank, but should allow for sufficient viewscapes and even water access by foot, especially to the popular, shallower riffle areas.
- consideration of a boat ramp for small trailered boats at Gardendale or further downstream, but above I26, to allow safer upstream motoring towards Hopes Ferry. Many boaters have carried in their heavy rigs for years at the Gardendale 'throw-in' to be able to more safely boat the Saluda.
- public access with parking and trails on the Lexington (south) side such as the public park at the confluence of 12 Mile Creek and the Saluda River proposed in the Corridor Plan by SC PRT and the SC DNR (Lower Saluda River Advisory Council).
- identification of flows needed for the lower Saluda River to support a variety of recreational uses
- identification of a reliable lake level that will provide year round access for a majority of lake users
- Consideration of conservation easements on large tracts of land within the PBL

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### RCG Tasks and Responsibilities

- Utilizing and modifying the Standard Process for evaluating and addressing recreation management and access issues specific to the Saluda Project, including developing a vision statement for the Project.
- Identifying specific areas where lake ~~and river levels, river flows, and/or lake and river level~~ fluctuations may be adversely affecting recreation, including the nature and timing of the effect (e.g., access to sections of water, access to facilities, and aesthetics).

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# Recreation Resource Conservation Group Work Plan

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- Identifying specific areas where river flow changes may be adversely affecting recreation along the river, including the nature and timing of the effect (e.g., access to and safe use of sections of river).
- Working with the Operations Resource Conservation Group to identify “reasonable” (based on hydrologic, structural, and other limitations identified) changes in Project operations that would benefit recreation.
- Working with appropriate RCGs to coordinate actions on issues of mutual interests such as river flows, lake levels, conservation of lands, and the siting and management of recreational facilities.
- Identifying any studies, if applicable, that need to be performed for identifying and/or evaluating (1) changes to Project operations, (2) enhancements to existing facilities, and (3) creation of new facilities to provide for public recreational access and opportunities.
- Presenting a range of reasonable alternatives or recommendations to the Saluda Hydro Relicensing Group (SHRG) regarding modifications to facilities or current Project operations, and provide recommendations for future recreation access and facilities.

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## Work Scope and Product

- **Task 1** – Utilize the stepwise process diagram and solution principles to guide the planning process for addressing recreation management issues at the Saluda Project.
- **Task 2** – Develop a Vision Statement for the Saluda Project.
- **Task 3** – Review the operational constraints and current operations of the Saluda Project (see Initial Consultation Document).
- **Task 4** – Answer the list of questions on the Standard Process Form in order to characterize the existing and potential future condition of access and lake levels and river flows – from a recreation setting perspective.
- **Task 5** – Review stakeholder requests for particular studies and/or enhancement measures to ensure that these are incorporated into study planning, if applicable
- **Task 6** – Develop and recommend operation scenarios to the Operations RCG for analysis. These scenarios should reflect initial thinking on potential solutions and be designed to narrow the focus of Task 10 below. Analysis by the Operations RCG will focus on an assessment of potential recreational impacts associated with any suggested changes to operations.
- **Task 7** – Discuss results of the Operations RCG analyses.
- **Task 8** – Develop study designs/methods/plans and review agreed upon studies, literature reviews, etc.
- **Task 9** – Check the solution principles to ensure proposed study plans are consistent.
- **Task 10** – Provide recommendations for Project operations and recreation access and facilities to be considered in conjunction with all ecological (including water quality), recreational, and safety issues.
- **Task 11** – Develop a consensus based Recreation Plan for the Saluda Project that addresses all of the issues and tasks identified above.

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## Recreation Resource Conservation Group Work Plan

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### Schedule

**Late 2005/Early 2006**—Finalize Mission Statement, Standard Process Form, Solution Principles, and Work Plan

**Mid-2006**—Complete identification of studies, literature reviews, etc. that need to be completed to address issues and tasks identified in the Work Plan

**Late 2006**—Begin compilation of existing information, review preliminary study results, and draft an outline of the Recreation Plan

**2007**—Complete any studies identified in Task 8 and review results; draft recommendations to SHRG, complete draft Recreation Plan

**2008**—Finalize Recreation Plan and provide comments on Draft License Application

# Recreation Vision Statement for the Saluda Project

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The long-term vision for the Saluda Project is to recognize, protect, and enhance the fishery, water quality, aesthetic values, cultural resources, and public recreational opportunities on the reservoir and the Lower Saluda River, while recognizing the need to protect habitat supporting threatened, endangered, and sensitive species of Lake Murray and the lower Saluda River, and ensure adequate facilities and public access are provided. Given the size of the reservoir/hydro-project area, it is felt that it can continue to support a diversity of recreation opportunities. Recognizing that needs and demands will change, recreational uses will be monitored and managed to balance access/uses with the protection of natural resources and environmental quality; and planning for new facilities and management schemes will remain adaptive to changes.

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Recreational opportunities for Lake Murray and the lower Saluda River over the next 30 to 50 years of the pending new FERC license for SCE&G should incorporate the following attributes:

- Recreational sites access areas on the lake and the river should be adequate to allow for the continued rapid population growth in the midlands over the term of the new license based on surveys of the public and input from the stakeholders and public.
- Sites should be spaced around the lake and along the river corridor to provide legal public access to the different geographic sections of both.
- Uncrowded conditions should be available most of the time at the sites, with natural viewsapes and provisions for most of the current and anticipated popular recreational activities incorporated into the overall provisions.
- Patrols and/or assistance for emergencies should be provided, though not necessarily manned, such as adequate phone boxes.
- Safe recreational opportunities should be available for boaters on the lake with adequate lake levels for the navigational markers, and on the river with release levels that are not life-threatening to the average person.
- The recommendations of the Lower Saluda Scenic River Advisory Council should be implemented to reflect the broad community-based consensus for river access, with consideration of additional river access to areas where trespassing is now the only way to enter an area.

Improvements to be considered at the Saluda Project include:

- Evaluation of SCE&G-owned Project lands for possible reclassification for recreation activities.
- Providing appropriate operations and maintenance of public recreation facilities.
- Optimizing the capacity of existing public recreation facilities to accommodate existing and future demand.

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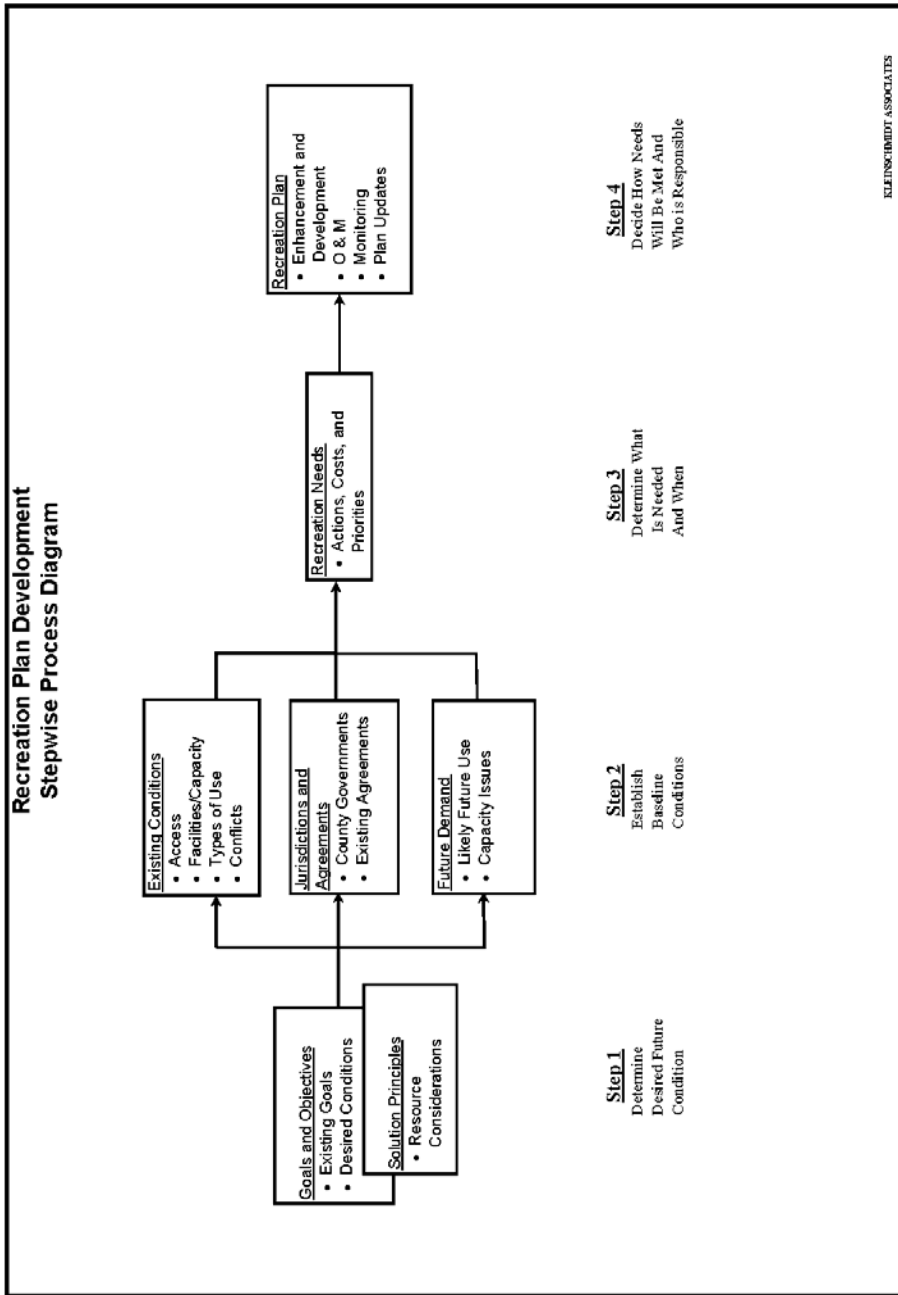
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# Recreation Vision Statement for the Saluda Project

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- Improving access and safety in the public waters below the dam and minimizing impacts of project operations on downstream recreation, recognizing the need to meet power generation, and downstream flow responsibilities at Saluda. Deleted: ly  
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- Managing lake level drawdowns so as to optimize safety and recreational opportunities. Deleted: minimize the occurrence of surface elevations lower than 354' in the late summer and early fall
- Managing river flows so as to optimize safety and recreational opportunities.
- Ensuring public access areas for the non-boating public remain available along the lake and river shorelines.
- Development of new facilities in accordance with the comprehensive plan as the need arises. Formatted: Bullets and Numbering  
Evaluation of other properties and potential partnerships as needed to meet the mission statement Deleted: if a proven
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Stepwise Process Diagram



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Solution Principles

Consideration of new recreational facilities should be based on demonstrated need and the potential impact on existing facilities.

1. Priority should be given to demonstrated need within the FERC project boundary.
2. Priority should be given to recreational proposals where multiple stakeholders offer significant participation.
3. Recreational facilities should appeal to a broad public.
4. Reasonable access for the disabled should be provided.
5. Recreational needs should be prioritized for the project including a schedule of proposed improvements so that all costs are not in the first few years of the new license.
6. The improvement or expansion of existing recreational facilities should be considered first.
7. Additional recreational studies (if needed) should be only of sufficient scope and duration to provide necessary information to develop issue solutions.
8. Consensus based solutions are preferred over studies, unless solutions cannot be developed with existing information.
9. 
10. A process should be developed to adjust proposed improvements over the 30+ year time frame approximately every 7 to 10 years to account for changing needs. This should include the ability to trade a new needed facility for a proposed (but not built) facility of approximately the same cost.
11. Sufficient “future recreational” land should be set aside now to handle the recreational needs of 30+ years.

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Preferred consideration will be given to ideas that:

- do not promote facilities that would adversely impact existing commercial operations;
- identify actual recreational needs that are not filled by existing facilities;
- receive broad public support;
- expand existing recreational facilities prior to developing green field sites;

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## Recreation Plan Development

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- require doing recreational studies only if consensus cannot be reached with existing information (It is preferred to put financial resources into recreational facilities and opportunities that benefit the overall Project, rather than fund unnecessary/subjective studies).

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Standard Process Form

The following is a list of standard questions designed to help characterize existing recreation resources and aid in development of an appropriate recreation plan for the Saluda Project. Questions pertaining to recreation management are categorized according to the four-step recreation plan stepwise process diagram developed for the project. Questions pertaining to reservoir levels and downstream flows are listed following the facility management material.

**STEP 1 – DETERMINE DESIRED FUTURE CONDITION**

1. Identify Lake Murray and/or Lower Saluda River (LSR) qualities important to keep and any qualities that need changes.

Change:

Relative water level stability

Predictability – desire flows in river to be more predictable; desire advanced notice of flows to be available to public

Accessibility and amenities (boardwalk accessible from land and water)

Water quality – desire to resolve DO problems in the tailrace and in the reservoir

Minimum flow – desire minimum flow standards that will protect aquatic health in river

Management of flow increases – desire slower rates for increasing flows in river to increase margin of safety for downstream river users

Keep:

Water quality

Natural shoreline and riverbanks

Undeveloped lands remain undeveloped

Aesthetics

Fishing opportunities

Hunting opportunities

Wildlife watching

Living on lake/river

Solitude

Keep islands natural

Safety/security

Public-private balance

Shoreline Management Program

Contingency reserve capacity

2. Are there unique characteristics of Lake Murray and/or the LSR relative to other reservoirs/tailraces in the area?

Location – near and within metropolitan area

Size

Uninterrupted by bridges

Amount of land owned by SCE&G

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[Extensive shoreline](#)  
[Usable/accessible shoreline](#)  
[Purple Martin habitat](#)  
[Whitewater paddling in river](#)  
[Cold water fisheries in river](#)

3. What is the overall vision for Lake Murray and/or the LSR, in terms of recreation experiences and opportunities?

[Insert Final Vision Statement](#)

4. Are there sensitive biological or cultural resources associated with the Project that need to be considered? Where are these resources located and are there seasonal sensitivities (e.g., nesting or spawning times, etc.)?

[ESA](#)  
[Lands that support wildlife habitat](#)  
[See Cultural RCG](#)  
[Rocky shoals spider lily; Saluda River](#)  
[Spawning, migrating fishes; lower Saluda and Congaree River](#)  
[Trout; lower Saluda](#)

5. Identify specific goals and objectives for managing recreation at Lake Murray and/or in the LSR.

[Lake levels](#)  
[River levels and flows](#)  
[Minimum flows to support aquatic community health and recreational uses in the river](#)  
[Recreational flows](#)  
[Management of flow changes from the hydro to improve safety for downstream river users](#)  
[Scheduled recreational releases](#)  
[Knowledge of current and anticipated generation releases made accessible to the public](#)  
[Park on Lexington side of lake](#)  
[Park/preserve on Lexington side of river at Twelve-mile Creek as describe in LSR Corridor Plan](#)  
[Provide takeout point above Zoo at Millrace Rapids](#)  
[LSR greenway trail described in LSSR Corridor Plan Update \(involves River Alliance/City of Columbia and ICRC/Saluda Shoals Park\)](#)  
[Assure long term stability of Billy Dreher Island, Flotilla Island, and Saluda Shoals Park](#)  
[Large tournament facility](#)  
[Reasonable avoid negatively impacting commercial facilities](#)  
[Conservation of existing project lands for wildlife and scenic values](#)  
[Estimate current and future recreational use of reservoir and river](#)  
[Year-round access for recreation sites](#)

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## **STEP 2 – ESTABLISH BASELINE CONDITIONS**

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## Recreation Plan Development

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6. What is the nature of existing recreational access to Lake Murray and the LSR?
  - a. How many public accessible, developed recreation sites are there?
  - b. Where are they located/how are they distributed around the Project?
  - c. Of these publicly accessible access sites how many are owned and operated by public versus private entities and how are they supervised?
  - d. How many sites, open to the public, provide boat access to the reservoir and the LSR?
  - e. How many provide shoreline fishing?
  - f. Identify the most heavily used facilities.
  - g. Are there informal, undeveloped use areas? Where are they?
7. What types of existing developed facilities are there?
  - a. Enumerate boat ramps, restrooms, docks, and other facilities.
  - b. What is the existing capacity at each site?
  - c. What is the general condition of each site and its facilities?
  - d. Ideas for improving existing facilities.
8. Describe notable recreation activities on Lake Murray and/or the LSR.
  - a. List recreation activities currently occurring and identify most prominent activities.

Greatest activity is independent family recreation, including many forms of boating, waterskiing, swimming/sunbathing, fishing, picnicking, and camping.

Solitary wade fishing in river.

Bank fishing at public sites and impromptu sites in the lake and river.

Small and large bass tournaments.

Motor boating

Sailing

Fishing from boats

Fishing from banks

Wade fishing

Swimming and sunning

Picnicking

Canoeing and kayaking (flatwater and whitewater)

Floating with tubes and rafts

- b. Where are these uses occurring, and are they concentrated in certain areas?

Lower Saluda River supports all above activities except sailing

Whitewater boating concentrated on Saluda River below I-26 Bridge

Swimming and sunning on Lower Saluda concentrated at Riverbanks Zoo area; and will expand upriver when greenway trail opens in 2007

Wade fishing concentrated at shoal areas of lower River: at least four areas along river

- c. Identify existing impediments to these activities, if any.

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## Recreation Plan Development

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Dramatic river fluctuations are impediments to recreational activities along the lower Saluda River.

9. Are there known management issues associated with use?
  - a. Are there areas of congestion, and if so where?
  - b. Are there known conflicts between users, and if so where and when?

Fishing tournaments are disruptive to other boaters and residents. There needs to be an established, enforced protocol for organizes fishing tournaments.  
Jet skis and large motorboats are disruptive to anglers, other boaters, and residents.

- c. Are there other known management issues, such as littering, trespassing, etc.?

Enforcement of established rules are limited by funding, staffing, and political boundaries.

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- d. Are there known issues regarding recreational safety?

Wade fishing, canoeing/kayaking, and other water contact and bank use is often dangerous due to river fluctuations in water levels on the Lower Saluda River.

10. What is the expected future demand for recreation activities at Lake Murray?
  - a. Will existing facility capacity likely be exceeded, and if so where and when?
  - b. Would accommodating this demand be consistent with the long-term vision for the reservoir?
  - c. Will demand introduce new or additional congestion, conflicts, or other management issues?

11. Identify current local benefits from recreation and any local detriments.

### **STEP 3 – DETERMINE WHAT IS NEEDED AND WHEN**

12. Ideas for better or different access, consistent with Step 2 above.
13. Potential facility enhancements or upgrades, consistent with Step 2 above.
14. Potential new facilities, or other management actions, consistent with Step 2 above.
15. What are the priorities regarding identified needs both in terms of resources and time? How do priorities compare across the entire Project?

### **STEP 4 – DECIDE HOW NEEDS WILL BE MET AND WHO IS RESPONSIBLE**

### **QUESTIONS REGARDING RESERVOIR LEVELS**

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## Recreation Plan Development

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16. How is the Project currently operated and what are the typical reservoir levels during key recreation seasons?

- SCE&G operates Saluda Hydroelectric Project as a multi-purpose project. The seasonal changes in elevations provide hydroelectric generation, maintenance of downstream water quality, a unique tailrace fishery, and municipal/industrial water supply.
- SCE&G has a verbal agreement with SCDHEC for a minimum flow of 180 cfs.
- During the low DO season which generally runs from late June to early December, SCE&G will try to maintain a minimum flow of 400 – 500 cfs to help maintain a higher level of DO in the Lower Saluda River.
- From April through the end of August the lake is operated near the normal operating high water level of el. 358 ft Plant Datum (PD). Maximum full pool is el. 360.
- Drawdown begins near the end of August or early September and ends in late December near the winter pool level of 350 - 352 ft PD. This allows additional storage capacity in anticipation of the late winter and early spring rainy season.
- At the beginning of January the lake is allowed to refill during the rainy season so it will be at the normal operating high water level of 358 ft. PD by April.
- The plant normally schedules power operations for contingency reserve to meet our obligation to the Virginia/Carolinas Reserve Sharing Group (VACAR), a member of the Southeastern Electric Reliability Council (SERC), which is governed by the North American Electric Reliability Council (NERC). During the fall and in anticipation of heavy rains from a tropical storm or hurricane the plant will generate as necessary to manage the lake level, system reserve, and emergency generation requirements.
- Power generation may be increased to allow SCE&G to meet their obligations of contingency reserve as part of our VACAR agreement with neighboring utilities.

17. Are there changes to Project operations that you would like to see addressed to improve the overall value of the reservoir, and how specifically would such changes benefit recreation?

- What minimum lake elevation will provide recreational benefits during each season of the year?
- Current reservoir level operations balance the multi-purpose use of the reservoir. Maintaining the existing reservoir level fluctuations would allow for continued water level management through daily and weekly power generation operations however recreation would see no additional benefits. Conversely, limiting the seasonal fluctuation may have recreational benefits but other project purposes would be compromised (power generation, water level management, water quality maintenance, and aquatic weed control).

18. Are there seasonal and/or daily variations in reservoir level that can occur without adversely affecting the overall value of the project (including impoundment objectives such as recreation, fish and wildlife, flood control, generation, navigation, etc.)?

- There are not large daily fluctuations at the Saluda Hydroelectric Project.

19. What are the reservoir levels at which recreation problems tend to occur (may be different for different locations or problems)?

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## Recreation Plan Development

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- There appears to be a potential impact to recreational resources when the lake level is lower.
- SCE&G already extended boat ramps at several of their public access parks to accommodate a water level down to el. 345 ft PD.

20. When (i.e., what time of year) and how frequently do problems occur related to reservoir levels?

- In general, the operation of Saluda Hydroelectric Project has been consistent throughout the years except for 1990, 1996, 2002 – 2004, and 2006. During those years the lake level was lowered to around el. 345 – 348 ft PD for the following project maintenance requirements:
  - 1990 – Intake towers maintenance
  - 1996 – Hydrilla control as requested by SCDNR
  - 2002 – 2004 – FERC Order for safety during dam remediation project
  - 2006 – Upstream riprap repair
- It will be necessary to lower the lake level to around el. 345 ft PD in the future for maintenance of project structures and installing new recreational access.

21. Why are the current operating water levels important to the operation of the project and the overall system?

- The Saluda Hydroelectric Project is a multi-purpose reservoir. The current operating water levels are critical for the project to meet its required purposes. The changes in water level have many beneficial impacts both upstream and downstream of the dam :
- The project is used to meet our contingency reserve capacity obligation as part of the VACAR agreement. This is for a loss on our own system or by one of our neighboring Reserve Sharing Group utilities.
- Electricity (inexpensive, clean, renewable)
- Electric system ancillary services (transmission line maintenance & overload protection, security resource for VCS Nuclear Statino)
- Navigation support
- Trout fishery
- Downstream water quality and aquatic habitat
- Municipal and industrial water supply

22. Are there state or federal operating requirements that stipulate specific operating goals?

- SCE&G and SCDHEC have an agreement to discharge a minimum flow of 180 cfs from the project.
- Article 12 of the FERC license requires that reservoir levels and discharge from storage be controlled by reasonable rules and regulations of the Commission for the protection of life, health, and property and for other beneficial public uses including recreational purposes.
- Exhibit H of the latest FERC license application identifies the lower lake level to be Elev. 350 during normal flow years and Elev. 345 during low flow years.

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## Recreation Plan Development

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- Our McMeekin Generating Station NPDES permit requires a minimum of 2,500 cfs discharge from Saluda prior to discharging the fossil plant circulating water return directly into the Lower Saluda River.

### QUESTIONS REGARDING DOWNSTREAM FLOWS

23. Are there riverine recreation opportunities below the dam? If yes, move to additional questions, if not, stop.

Yes, trout fishing (wading, bank, boat), striper fishing (wading, bank, boat), canoeing/kayaking, tubing, sunbathing/swimming/rock hopping, picnicking, walking/hiking, bicycling, wildlife watching.

24. Do we know how different flow levels affect recreation opportunities and specific recreation activities?

25. Can opportunities be enhanced by modifying releases, and in what way?

26. How would modified releases affect upstream lake levels?

27. How would suggested modified downstream flows affect project operations at the project and at upstream and downstream projects?

28. Are there additional concerns with regard to state and federal requirements or existing ecological issues that limit suggested changes to downstream flows?

29. How binding is the VACAR agreement and when does it expire? (I notice that it is not listed in the state/federal operating requirements in Question 22).

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support creation of public access sites and greenway-trail concepts as proposed in the Lower Saluda River Corridor Plans of 1990 and 2000, which include a linear park and trail system on north bank of river connecting Saluda Shoals Park to Gardendale Landing and to Riverbanks Zoo; and a park/preserve on the south side of river at Twelve-mile Creek

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(encompassed within LSR Corridor Plan item, above)

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expansion of existing SCE&G and public commercial facilities to accommodate future growth

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SCE&G and public commercial

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A riverfront greenway trail is wanted by the community as expoused by the River Alliance. Assistance by SCE&G will in making this trail a reality will also help by opening up many areas of the river now only reached by boat, or by trespassing. The River Alliance has proposed a trail to extend up the north shore of the Saluda from the Riverbanks Zoo to I26. Continuation of the trail to Saluda Shoals, connecting the Gardendale site and an additional access area between I20 and I26 is also envisioned by the LSRAC and Saluda Shoals. Also, there is no legal access except by boat to the stretch of river upstream of the rapids above Saluda Shoals which should be remedied with a riverfront trail connection if possible, or through seperate access. The trail should parallel the river and not disturb the scenic integrity of the riverbank, but should allow for sufficient viewscapes and even water access by foot, especially to the popular, shallower riffle areas.

consideration of a boat ramp for small trailered boats at Gardendale or further downstream, but above I26, to allow safer upstream motoring towards Hopes Ferry. Many boaters have carried in their heavy rigs for years at the Gardendale 'throw-in' to be able to more safely boat the Saluda.

public access with parking and trails on the Lexington (south) side such as the public park at the confluence of 12 Mile Creek and the Saluda River proposed in the Corridor Plan by SC PRT and the SC DNR (Lower Saluda River Advisory Council).

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and to provide wildlife habitat areas

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identification of flows needed for the lower Saluda River to support a variety of recreational uses

creation of scheduled recreation flows for the

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identification of flows needed for the lower Saluda River to support a variety of recreational uses

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lower Saluda River

identification of a reliable lake level that will provide year round access for a majority of lake users

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identification and conservation of undeveloped shoreline and adjacent land for recreational use

management of river flows to improve safety for river users (coordinate with Safety RCG)

minimum flows to provide for recreational navigation and to protect and enhance aquatic life in river (coordinate with Fish and Wildlife RCG)

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identification and conservation of undeveloped shoreline and adjacent land for recreational use

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management of river flows to improve safety for river users (coordinate with Safety RCG)

minimum flows to provide for recreational navigation and to protect and enhance aquatic life in river (coordinate with Fish and Wildlife RCG)



**SOUTH CAROLINA  
ELECTRIC & GAS COMPANY**  
*COLUMBIA, SOUTH CAROLINA*

**SALUDA HYDROELECTRIC PROJECT**  
*(FERC NO. 516)*

**RECREATION PLAN**

DRAFT

*JULY 2006*

*Prepared by:*

***Kleinschmidt***  
*Energy & Water Resource Consultants*

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**RECREATION PLAN**

**DRAFT**

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## ***1.0 PROJECT DESCRIPTION***

These sections will be basic descriptions of existing and/or planned future recreation opportunities.

### ***1.1 Regional Setting***

This section will briefly describe recreation opportunities in the Lake Murray region. In order to be consistent with the Statewide Comprehensive Outdoor Recreation Plan (SCORP), the region is defined as the “Capital City & Lake Murray Country” tourism region and includes the counties of Richland, Lexington, Saluda, and Newberry.

### ***1.2 Lake Murray***

This section will briefly describe Project facilities, Lake Murray, and recreation opportunities available on the lake.

### ***1.3 Lower Saluda River***

This section will briefly describe recreation opportunities available on the lower Saluda River. We must also describe what is actually in the project boundary.

## ***2.0 DATA COLLECTION METHODS AND STORAGE***

This section will basically be the methodology from the Recreation Assessment Study and the Boat Density Study.

## ***3.0 SITE DESCRIPTIONS, USE ESTIMATES, AND BOAT DENSITY ANALYSIS***

This section will incorporate results from the Recreation Assessment Study and the Boat Density Study.

## ***4.0 FACILITY DEVELOPMENT CONSULTATION PROCESS AND METHODOLOGY***

This section will describe the consultation process with the Recreation RCG. We will incorporate the following subheadings to help describe the process.

### ***4.1 Standard Process***

This section will describe the Standard Process that we are using in the Recreation RCG.

### ***4.2 Standard Process Steps and Questions***

Basically, this will be a list of the four steps and the final questions from the Standard Process form.

### 4.3 Recreation Solution Principles

This will be a reiteration of the final Solution Principles we are following.

## **5.0 FACILITY DEVELOPMENT PRIORITIZATION AND SCHEDULING**

The following questions briefly describe the process we will use for determining facility development and prioritization.

**“Does the *existing* supply of recreation sites/facilities meet the *current* demand for them?”  
The answer to this question defines our baseline – it tells us what exists *now* and how it is *currently* used.**

1. Identify supply of recreation sites. In this instance, supply of recreation sites around Lake Murray will be determined using the results of the recreation site inventory. That will tell us (a) what’s available for public access sites and (b) approximately how many people these sites can accommodate at any period in time (site capacity).
2. Estimate whether we are meeting *current* demand for these recreation sites. We need to estimate at what level these sites are being used now. This is determined from our vehicle counts, which are occurring concurrently with the site surveys. This information will be supplemented with results from the user surveys, which will tell us whether the patrons of recreation sites feel the existing facilities are adequate to meet their needs, and the staging locations of special events (regattas, fishing tournaments, etc.).

### 5.1 Prioritization Consultation

**“Will the current supply of recreation sites/facilities meet expected future demand?”**

1. Determine what *future* participation in recreation might look like. We need to estimate how many more people will be demanding recreational access to the Project. This information will come from estimates of population projections (population trends are an indicator of potential growth in recreation demand); trends in participation in outdoor recreation from national studies, the SCORP, River Corridor studies, and other relevant literature.
2. Decide whether the *existing* sites might accommodate our expected *future* use, or whether those sites might need to be *expanded* or new sites *created*. The capacity at which these sites are being used currently will be compared with the estimates of future use to gain an idea of how much additional use in the future a site could or could not handle.

### 5.2 Implementation Schedule

**“If site expansion or new access is determined to be required, where and when should that occur?”**

1. Identify the recreation sites where expansion might be necessary. Identify the activities that need to be accommodated. Determine whether (a) the site can accommodate an expansion and (b) whether an expansion is desirable at that site. Data required here will come from the site evaluation, professional engineers, and resource



managers/professionals. For boat launches, also examine maps from the boating density study, survey results, and accident locations to identify whether or not waters in front of the launch can handle additional boat traffic.

2. If it is determined that new sites should be created, the location of any potential site should be determined by examining the following items, at a minimum:
  - a. Location of existing project lands that are available
  - b. Topographic suitability of available project lands to meet the need
  - c. Location of other sensitive resources (T&E species, spawning beds, wetlands, etc.).
  - d. Current on-water use patterns that might become more concentrated by the development of a new site.
3. Develop a prioritization schedule that will identify the approximate time frame for these improvements to occur.

### 5.3 Annual Consultation

We will include an annual consultation with the SCDNR and SCPRT that will review improvements made during the prior year and review the schedule for the upcoming year. If the schedule of improvements needs adjusting, it can occur at this meeting.

### 5.4 Recreation Plan Addenda

We will include an annual report describing improvements made during the previous year and plans for the coming year; basically meeting notes from the annual consultation.

## **6.0 RECREATION CONCEPT PLAN EVALUATION**

This section will describe the detailed improvements that we agree will take place.

### 6.1 Suitable Sites for Development

This section will describe the sites and the improvements to those sites.

### 6.2 Unsuitable Sites for Development

During the course of consultation, we may find that a site may need improvements that are unfeasible for a given reason. We will record why these sites are unsuitable in order to provide a record for future use.

## **7.0 OTHER ISSUES ADDRESSED WITHIN THE RECREATION RCG CONSULTATION PROCESS**

If we have any other recommendations related to recreation, we will describe them in this section.

## **8.0 REFERENCES**