

# Recreation Resource Conservation Group

## Working Documents

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## Recreation Resource Conservation Group Work Plan

FINAL

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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
  - provide formal and informal (impromptu areas) recreational opportunities
    - consideration of special recreation designation areas classification (e.g., Two Bird Cove and Hurricane Hole)
- using the concept of adaptive management in future recreation planning
- river flows
  - safe recreational opportunities should be available on the lower Saluda River through daily flow release schedules and consensus-based flow rates
  - 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

## RCG 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).
- 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.

## Tasks and Products

- **Task 1** – Utilize the stepwise process diagram and solution principles to guide the planning process for addressing recreation management issues at the Saluda Project.
  - Final Process Diagram and Solution Principles
- **Task 2** – Develop a Vision Statement for the Saluda Project.
  - Final Vision Statement
- **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.
  - Final Standard Process Form
- **Task 5** – Review stakeholder requests for particular studies and/or enhancement measures to ensure that these are incorporated into study planning, if applicable
  - Final Study Plans and Possible Mitigation Measures
- **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.
  - RCG Recommendations
- **Task 7** – Discuss results of the Operations RCG analyses.

## Recreation Resource Conservation Group Work Plan

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- **Task 8** – Develop study designs/methods/plans and review agreed upon studies, literature reviews, etc.
  - Final Study Plans
- **Task 9** – Check the solution principles to ensure proposed study plans are consistent.
  - Final Study Plans
- **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.
  - RCG Recommendations
- **Task 11** – Develop a consensus based Recreation Plan for the Saluda Project that addresses all of the issues and tasks identified above.
  - Final Recreation Plan

### 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

### Possible Mitigation Measures to be Considered

- 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 the north bank of the river connecting Saluda Shoals Park to Gardendale Landing and Riverbanks Zoo; and a park/preserve on the south side of river at Twelve-mile Creek
- creation of a state park on the south side of the reservoir
- creation of a multi-lane boating facility that can accommodate large tournaments
- 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.
- consideration of conservation easements on large tracts of land within the PBL

## 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.

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 and 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 views 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.

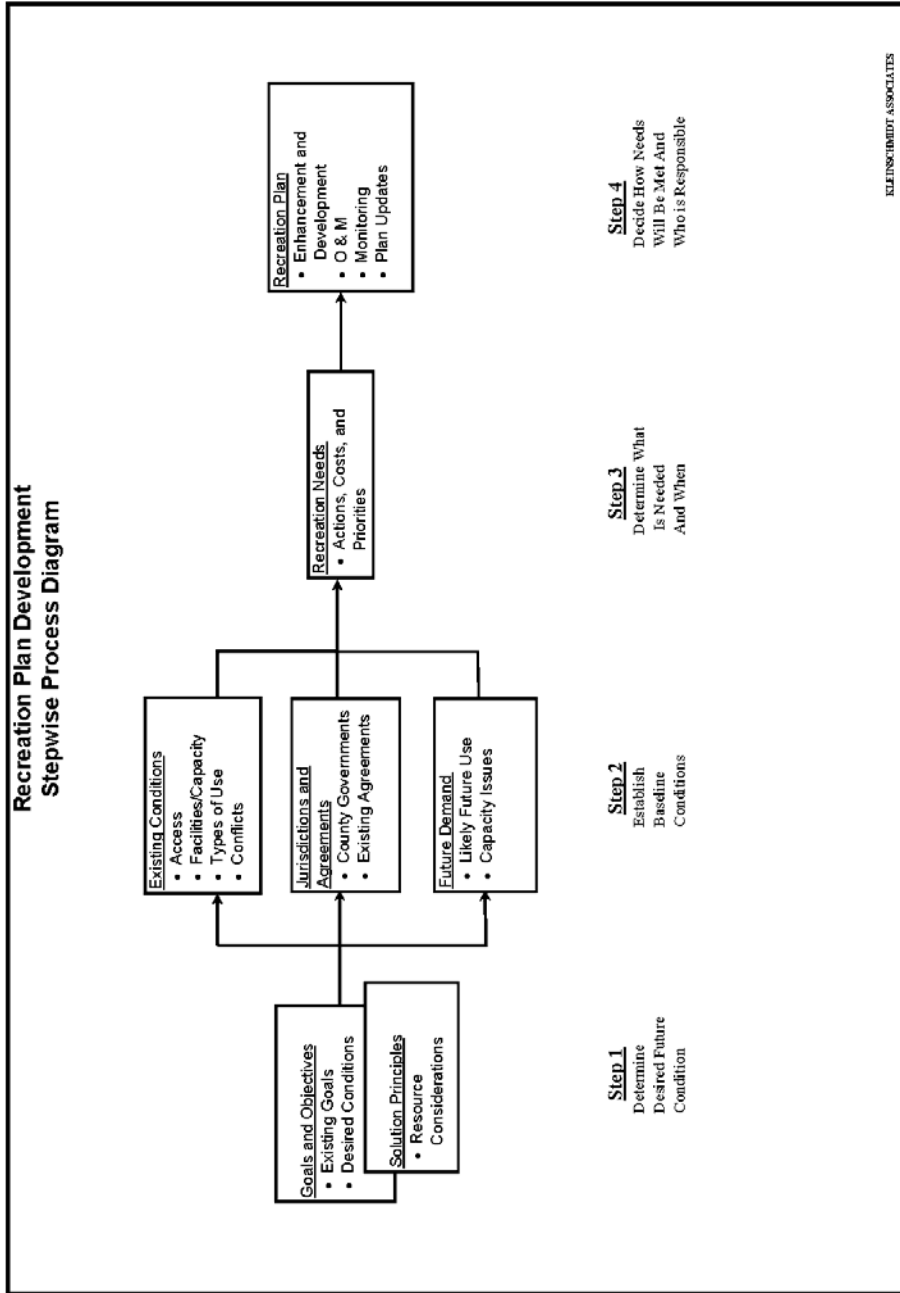
## Recreation Vision Statement for the Saluda Project

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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.
- Managing lake level drawdowns so as to optimize safety and recreational opportunities.
- 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. Evaluation of other properties and potential partnerships as needed to meet the mission statement

# Stepwise Process Diagram

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## Solution Principles

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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. 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.
10. 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;
- 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

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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

## Standard Process Form

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[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**

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?

## Standard Process Form

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- 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.

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

## Standard Process Form

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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 organizing 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**

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

## Standard Process Form

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- 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)?

- There appears to be a potential impact to recreational resources when the lake level is lower.

## Standard Process Form

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- 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).