
FERC Project 1894
LAND USE AND SHORELINE MANAGEMENT PLAN
Monticello and Parr Reservoirs

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SCE&G

LAKE MANAGEMENT

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**FEDERAL ENERGY REGULATORY COMMISSION
PROJECT NO. 1894 LAND USE
AND
SHORELINE MANAGEMENT PLAN
MONTICELLO AND PARR RESERVOIRS**

INTRODUCTION – MONTICELLO AND PARR RESERVOIRS

Since their completion in 1978, Monticello Reservoir and its adjacent Recreational Lake (hereto called the “Recreational Lake”), together with the previously existing Par Reservoir have become popular recreational sites in western Fairfield County, South Carolina. The Monticello and Parr Reservoirs each have three public access areas. The Recreational Lake was built solely for public recreational use. All these impoundments are owned and operated by South Carolina Electric & Gas Company (herein called the “Company” or SCE&G) pursuant to a license issued by the Federal Energy Regulatory Commission (herein called the “FERC”).

Monticello and Parr Reservoirs form a type of hydroelectric generating facility known as pumped storage. Pumped storage generation produces electricity in a way that responds to daily fluctuations in customer demand. Fairfield Pumped Storage can generate as much as 544,000 kilowatts during periods of high electric demand. During these times, water from Monticello Reservoir flows through turbine-generators, producing electricity. The water then flows into Parr Reservoir where it is held. When demand is low, electricity from base load fossil and nuclear generating

plants is used to pump the water back into Monticello Reservoir. Monticello Reservoir has virtually no natural inflow so that, except for negligible amounts from rainfall in the immediate area of the Reservoir, water only gets there if it is pumped from Parr Reservoir.

There is no practical way to store large amounts of electricity today. This pumped storage uses electricity, plentiful during low demand, to store water. The water can then be used to generate electricity when demand is high. Thus, in a sense a pumped-storage facility is like a storage battery. However, instead of storing electricity, it stores water whose energy can be released to produce electricity.

Fairfield's alternate cycles of generation and pumping causes daily fluctuations in the water levels of both Monticello and Parr Reservoirs. Monticello drops 4.5 to 5 feet over a 10 to 12 hour period during the generating phase. At the same time, the water is flowing into Parr Reservoir, causing it to rise as much as 10 feet. During the pumping cycle the reverse occurs -- the water level rises in Monticello and drops in Parr Reservoir.

Monticello Reservoir covers 6,700 acres and has 54 miles of shoreline. The Company's ownership of the shoreline property extends from a minimum of 50 feet in width, measured horizontally from the 425-foot mean sea level contour, to as much as 200 feet wide. In addition to its use as part of the Fairfield Pumped Storage, Monticello Reservoir also provides cooling water for the 966 megawatt V. C. Summer Nuclear Station located on its shores. Approximately 7.2 miles of the Monticello Reservoir shoreline are within the Nuclear Exclusion Zone "NEZ" of the V. C. Summer Nuclear Station and thus are not open to access by the general public. The

shoreline within the NEZ is marked with signs and buoys and is not available for public use.

Parr Reservoir covers about 4,400 acres and has 94 miles of shoreline. The reservoir was originally formed in 1914 as part of a conventional hydro project at Parr Shoals. The height of its dam was raised nine feet in the 1970's during construction of the pumped storage project, nearly doubling the reservoir's surface area. The Recreational Lake adjacent to Monticello Reservoir has a surface area of 300 acres which is maintained at a stable water level and is not affected by the operation of the pumped storage facility. This lake was constructed by SCE&G solely for recreational use.

Summer Station and Fairfield Pumped Storage together form an efficient energy complex, helping to provide affordable electricity for South Carolina citizens. The associated reservoirs also provide a variety of recreational opportunities for residents and visitors. To protect these resources, the Company, as owner and licensee of FERC Project No. 1894, has established regulations to ensure a quality environment for all who use the area. Regulations and policies affecting the waters and the shoreline are outlined in this brochure.

I. ENVIRONMENTAL POLICIES

1. General Policy And Purpose

- a. The implementation by the Company of the FERC Project No. 1894 Land Use and Shoreline Management Plan shall help to maintain and conserve the area's natural and man-made resources.**
- b. The plan will comply with the terms of the license for FERC Project No. 1894, as well as the regulations and the orders of the FERC, and is intended to assist in providing a balance between recreational use and development and environmental preservation and control.**

2. Water Quality Standards

The Company will conduct a continuing water quality monitoring program to help to determine whether the waters of Project No. 1894 continue to be suitable for boating and fishing and to assist in detecting and resolving adverse circumstances within Company control.

3. Undeveloped Areas

Company-owned land lying within the boundary lines of the Project will be maintained through a sound forest management program, where appropriate.

Timber will be harvested using a variety of cutting regimes to maintain a healthy forest and to provide a balance of quality watershed conditions, recreational opportunities, and promotion of new timber growth.

4. Game Management

Portions of Project lands, which include both the Monticello and the Parr Reservoirs, are under the management jurisdiction of the South Carolina Department of Natural Resources. Waterfowl management areas located on the Broad River and Enoree River are available for public use and are managed by the South Carolina Department of Natural Resources under its Game Management Program.

II. EXCLUSION ZONE

The Nuclear Regulatory commission requires a one-mile radius exclusion zone surrounding the Summer Station. This area, encompassing approximately 7.2 miles of shoreline, is designated by warning signs on the landward side and by buoys on the lakeward side. Admittance to this area is restricted in order to comply with the licensing requirements for the V. C. Summer Nuclear Station.

III. PUBLIC FISHING, BOATING & HUNTING

1. Fishery Management

The South Carolina Department of Natural Resources ("SCDNR") maintains fishery management responsibility and state fishing regulations enforcement on Monticello and Parr Reservoirs.

2. Boating Safety

The boating laws of South Carolina are enforced by the SCDNR. Boaters and sportsmen should be aware of dangerous areas which are marked and for public safety should not be entered. Other warnings are posted around the Reservoirs and should be observed as well. Due to operation of the pumped storage generating plant, the waters of the Monticello Reservoir and the Parr Reservoir can fluctuate several feet in a matter of several hours. This rapid fluctuation makes it especially important for boaters and other lake recreators to assume a high degree of personal responsibility for their own safety by being especially aware and cautious. Shoals and hazardous areas are marked by the SCDNR. However, it must not be assumed that every potentially dangerous shoal and hazardous area has been marked.

3. Public Hunting

Approximately 8,350 acres of Project No. 1894 are leased to the SCDNR as a part of the statewide Game Management Program. These public hunting areas are shown on Game Management Area Maps available through the SCDNR. Regulations pertaining to each - Broad River, Enoree River, Parr Reservoir and Monticello Reservoir - are different. Hunters must familiarize themselves with these regulations. They are available from:

**Waterfowl and Hunting Regulations
S. C. Department of Natural Resources
Wildlife and Fresh Water Fisheries
1000 Assembly Street
Columbia, South Carolina 29201**

Telephone: 803-734-3886

IV. PUBLIC ACCESS

1. Park Facilities

The Company has developed and maintains six public parks on Monticello and Parr Reservoirs. Each park provides boat launching, courtesy docks, and picnic facilities public use. The Company, in conjunction with Fairfield County Recreation Commission, has a multiple use recreational area at Monticello Reservoir which includes a scenic overlook area, baseball field, tennis courts, basketball court, picnicking facilities and a fishing facility for those persons with disabilities.

2. Recreational Lake

A smaller Monticello Sub-Impoundment (The Recreational Lake) is located north of the large body of water and is about 300 acres in size with 10.2 miles of shoreline. The Recreational Lake presently offers fishing two days a week (Wednesday and Saturday), with the swimming and picnic facilities open seven days a week. Regulations for its use are posted at the park site.

Special Note: No private docks or boat ramps will be permitted on the shoreline of the Recreational Lake.

V. SHORELINE ACTIVITIES

1. General

It is the policy of the SCE&G Lake Management Department to authorize certain private uses of and/or acts upon Project land by permit when such uses or acts are compatible with the public interest and comply with the requirements of the license for Project No. 1894. SCE&G owns and manages a strip of land around the entire periphery of the reservoirs; thus, any activity permitted on the “shoreline” are occurring on SCE&G property. Any activity not in compliance with the shoreline activity parameters outlined below constitutes a trespass which SCE&G may elect to prosecute. It is the Company’s position that the shorelines of Monticello and Parr Reservoirs are to be managed and protected in a manner that will protect the environmental and aesthetic integrity of the existing shoreline.

The Monticello Land Use and Shoreline Management Plan plays an integral part in protecting the area's natural and man-made resources. The following shoreline activities will pertain only to the Monticello Reservoir. No shoreline activities will be permitted on the Parr Reservoir or the Monticello Sub-Impoundment Recreation Lake, with the exception of the public recreational opportunities outlined above.

2. Docks

Policy

SCE&G requires that anyone desiring to construct, repair, replace or add to a dock must first file an application for a permit. No construction can proceed until an approved permit is issued. Docks, whether fixed or floating, must not unreasonably interfere with surface water activities or navigation and must be compatible with the scenic values of the shoreline. Determinations of compliance shall be the sole province of SCE&G. Use of common docks will be encouraged where practical.

Distance Requirements

- To be eligible for a dock, a lot for a single family dwelling first must have a minimum of 200 feet on the Project Boundary Line. The proposed dock must be located entirely within 200 feet of the high water elevation (425 foot contour) before an individual residential dock application will be considered. No dock will be permitted in a narrow cove area, which are defined to be areas where the distance across the water from one

shoreline to the other is less than 200 feet. The Project Boundary Line (PBL) is the common property line between SCE&G and the adjacent back property owner.

- Docks will not be permitted on shoreline affected by significant erosion or steep slopes unless the applicant agrees to provide approved shoreline erosion control devices. This must be accomplished without the clearing of vegetation or disturbance of shallow water habit.

3. General Requirements

A dock application must be submitted and then approved in writing by an SCE&G Lake Management Representative prior to the start of construction. The length and specific location of a dock will be determined during a site visit by an SCE&G representative and is discretion of the SCE&G Lake Management Department. Only one dock will be permitted on a single-family lot. Upon completion of dock construction, SCE&G will inspect each dock to ensure compliance and assign an inventory number to compliant docks. Only then will a dock be deemed permitted.

Dock Specifications

Docks may generally be up to 650 square feet in overall size (surface area) and 75 feet in length. However, in no case may they interfere with navigation or adjoining property access. If they would, size and length may be restricted, or a permit may be denied. Dock length may vary depending on curvature or slope of the shoreline.

Any variance (i.e. increase in size or length) will be evaluated as to the effects on navigation and aesthetic value, and may be denied according to SCE&G's sole judgement. General boat dock design may involve either fixed or a combination of a fixed and floating structures. *See attached exhibit.*

- No dock will be permitted at any location with less than 200 feet in width across the cove, measured as specified above.
- Dock construction material must consist of approved, treated lumber only. Steel and other building materials will be evaluated on an individual basis. All building materials must be approved for outdoor use.
- All dock flotation must consist of encased or encapsulated Styrofoam billets. No exposed foam billets or metal or plastic drums will be permitted. Flotation which sinks when punctured or becomes waterlogged is prohibited.
- Docks must have reflectors. They must be placed on each corner of the dock and be visible to boating traffic.
- All permanent, fixed docks must be built one foot above the maximum high water mark (425-foot contour).
- Sinks, toilets, showers, etc. or any type of equipment or construction which will create or cause or allow any liquid or solid

Lake Monticello Common Dock Policy Amendment

March 1, 2006

Page 12 of the Lake Monticello Shoreline Management Plan, #4 Common Dock, is being amended.

The original policy allowed for two to five property owners to participate in a common dock if the shoreline frontage requirement of 200 feet was met.

This policy is being amended and will now only allow two individual single family residential lots to participate in a common dock. The shoreline frontage requirement of 200 feet will still apply.

Common docks are encouraged and may be mandated for all lake property owners as an alternative to individual docks and will be required on property with inadequate lake frontage or in such other circumstances that SCE&G deems appropriate.

waste to be discharged into the waters of the Monticello Reservoir will not be permitted on SCE&G's property or on the docks.

4. Common Docks

Common docks provide lake access for two to four single family residential lots adjacent to the PBL. To accommodate a common dock, the combined adjoining lots must have a minimum of 200 feet on the shoreline. Common docks are encouraged and may be mandated for all lake property owners as an alternative to individual docks and will be required on property with inadequate lake frontage, or in such other circumstances that SCE&G deems appropriate.

5 Water Access

South Carolina Electric & Gas Company does not guarantee daily or annual usable water access to the waters of the Monticello Reservoir. Each lot along the shoreline will have different slopes and contours that will determine water depth in front of the lot. The Monticello Reservoir is a pumped storage project that can fluctuate vertically up to 4.5 to 5 feet over a 10 to 12 hour period during generation phases. The fluctuation of the reservoir will , at times, limit or restrict the use of most docks on the Monticello shoreline.

6. Access Path

A single pedestrian access path, approximately 10 feet wide, may be cleared for access to a permitted dock from the adjacent back property owner's land.

The access path must follow a meandering route to prevent erosion and to protect the aesthetics of the shoreline. No trees larger than 10 inches at breast height can be removed within the 10- foot wide access path. A Lake Management representative will identify and designate the location of all access paths.

7. Underbrushing

- a. No clearing or removal of trees or vegetative cover within the buffer zone will be permitted except directly within the permitted access path. The trees, bushes, and other vegetation growing on and above the 425 contour play an important role in protecting the environmental, scenic, and recreational values of the reservoir.**
- b. Protection of the shoreline and buffer vegetation is important to ensure and maintain a sound, healthy lake environment. The ecological impact of vegetation on the fish and wildlife habitat and the stabilization of the existing shoreline are essential to a healthy environmental condition of the reservoir.**
- c. Be advised that any unauthorized removal of shoreline vegetation will result in the immediate cancellation of the dock and other permits issued by SCE&G. Violators will be required to replant and restore the disturbed area with such plantings and/or shoreline manipulation as SCE&G determines is necessary to mitigate and correct the situation.**

8. Water Removal

Water removal will be permitted for non-commercial agricultural/landscaping irrigation purposes and livestock watering only. Only the irrigation intake pipes will be allowed within the buffer zone. Pumps and electrical service must be located outside the SCE&G Project Boundary Line. All other water removal is prohibited.

9. Erosion Control (Shoreline Stabilization)

Rip-rap may be used on the shoreline in the immediate area of a dock or access area, provided it conforms to good engineering standards, as judged by SCE&G. Bio-stabilization using native vegetation is preferred in place of conventional erosion control material. Bricks, blocks, tires, or materials other than rip-rap are prohibited as alternative shoreline stabilization material.

10. Prohibited Activities

The following activities are prohibited on the Monticello Reservoir. These prohibitions will be enforced by SCE&G or an appropriate State or Federal agency.

- No roofs or covers over docks**
- No boat slips**
- No jet skis**
- No water skiing**
- No Parasailing**
- No Paragliding**
- No boathouses**
- No fueling facilities permitted on dock**
- No fences within the PBL**
- No electrical service within the PBL**
- No private boat ramps**
- No boat lifts**
- No mooring**

- No houseboats
- No water craft exceeding 30 Feet in length will be permitted to be permanently docked. Docking for more than 14 days is considered to be permanent for the purpose of this provision.
- No water-craft with MSD (Marine sanitation devices)
- No excavation/dredging
- No effluent discharges
- No commercial marinas
- No marine rails
- No sea walls

11. Prohibited Activities (Buffer Zone)

All SCE&G property between the adjacent back property and the waters of Monticello lies within that area defined as the Buffer Zone. The following activities are prohibited within the Buffer Zone:

- No permanent structures
- No land-based structures, storage buildings, shelters, patios, gazebos, fences, swimming pools, satellite dish, signs, storage of boats, canoes and other water craft or automobiles
- No septic tanks and/or drain fields
- No planting of grass except as a permitted erosion control measure
- No storage or stockpiling of construction material
- No vegetation removal of any type except in a permitted 10 foot wide access path to the shoreline
- No limbing or trimming of Buffer Zone vegetation to create views or visual corridors

12. Application Procedure

Applicants are required to apply in writing for shoreline permits. Requests for permits for docks, access paths, irrigation, etc. shall be submitted to SCE&G's Lake Management Department in writing and on forms provided by SCE&G.

Information will be furnished to the applicant concerning the requirement for formal approval of shoreline request. For permitting information call or write:

SCE&G Lake Management Department
Mail Code 156
Columbia, SC 29218
803-217-9221

13. Permitting/Inspection Fees

a. The following are the permitting fees for Monticello Reservoir shoreline activities:

• Docks	\$100
• Access Paths	\$50
• Irrigation	\$50
• Erosion Control	\$50

b. Permit fees are due with the applications. If an application is denied, the permit fee will be returned.

c. SCE&G will conduct periodic shoreline inspections to ensure compliance with the Shoreline Management Plan. SCE&G will require renewal permitting fee of \$100 every five years from the initial permitting date for each dock approved on the shoreline of the Monticello Reservoir.

d. The Applicant is responsible for maintaining the dock structure in good repair and safe condition. If at any time the dock is determined by a SCE&G Lake Management representative to be in disrepair or a hazardous condition, the dock must be repaired or removed from the project waters of the Monticello Reservoir immediately. SCE&G reserves the right to remove any dock on its property as conditions warrant.

14. Existing Docks

Currently there are 16 individual docks constructed on the shoreline of the Monticello Reservoir. These docks will be grandfathered as existing facilities, but will be required to be brought into compliance with the Shoreline Management Program for the Monticello Reservoir.

VI. 300 ACRE RECREATION SUBIMPOUNDMENT

The park area offers fishing two days a week, swimming and picnic facilities. The 300 acre lake was constructed to provide stable water fisheries and recreation areas. SCE&G is committed to protecting the scenic and environmental value of the Recreation Lake by prohibiting docks and limiting shoreline activities.

VII. PARR RESERVOIR

The Land Use and Shoreline Management Plan for the Monticello and Parr Reservoir does not allow docks on the Parr Reservoir. Currently, there are no plans or considerations to allow docks on the Parr Reservoir.

VIII. LIST OF EXHIBITS

- Exhibit 1 Shoreline Permit Application**
- Exhibit 2 Conditions of Permit**
- Exhibit 3 Shoreline Management Agreement**
- Figure 4 Boat Dock Design**
- Figure 5 Map of Monticello Reservoir Shoreline Classification**
- Figure 6 Recreation Map of Monticello and Parr Reservoir**