



US Army Corps
of Engineers
Wilmington District

W. Kerr Scott Dam and Reservoir, NC (O&M)

FY 2014 Budgeted Actions:

- **Operate and maintain recreation facilities to meet continued public demand**
- **Operate and maintain dam infrastructure for flood risk management**
- **Environmental stewardship of the property**



CONGRESSIONAL DISTRICT: NC 05

DATE: 8 April 2013

1. **AUTHORIZATION:** Flood Control Act of 1946 (PL 79-526).
2. **LOCATION AND DESCRIPTION:** The W. Kerr Scott Dam and Reservoir is located on the Yadkin River about 6 miles upstream from Wilkesboro, North Carolina. At full flood pool elevation (1,075 feet mean sea level), the reservoir extends 15.7 miles upstream to the Wilkes-Caldwell County line. The project consists of a rolled earth-fill dam 1,740 feet long with top of dam about 148 feet above the streambed elevation. There is also a spillway near the north abutment of the dam in a rock cut with a crest elevation of 1,075 feet and an outlet works consisting of an intake structure, control tower, and a circular concrete conduit 12.25 feet in diameter through the base of the dam near the south abutment. The reservoir has a gross capacity of 153,000 acre-feet of which 112,000 acre-feet are reserved for flood risk management, 33,000 acre-feet will be used as required for water supply, and 8,000 acre-feet being contained in the minimum pool.
3. **FEDERAL FUNDING ALLOCATION FOR FY 2012:** \$ 3,367,000.
4. **FY 2013 BUDGET AMOUNT:** \$ 3,209,000. Funds are being used to continue operation and maintenance requirements for flood risk management, recreation and environmental stewardship.
5. **FY 2014 BUDGET AMOUNT:** \$3,372,000. Funds would be used for normal operations and maintenance of the project. Additional funds in the amount of \$4,000,000 could be used as follows:

PROJECT INFORMATION – W. Kerr Scott Dam and Reservoir, NC (O&M) – Continued

<ul style="list-style-type: none"> • Perform dispersive and erosive test on embankment material; investigate spillway control sill; and perform sudden drawdown analysis of retaining walls. 	\$ 100,000
<ul style="list-style-type: none"> • Perform critical filter criteria analysis which requires field drilling and sampling. 	\$ 100,000
<ul style="list-style-type: none"> • Install a crane and permanently attach the stop log for immediate deployment. 	\$ 75,000
<ul style="list-style-type: none"> • Perform seismic evaluation of the dam. No earthquake forces were considered in the original stability analysis. 	\$ 125,000
<ul style="list-style-type: none"> • Perform seismic analysis of embankment, tower, tower access bridge, conduit, stilling basin walls, concrete approach channel walls and emergency spillway training walls. 	\$ 115,000
<ul style="list-style-type: none"> • Replace degraded riprap on upstream face of dam (elevations 1025' to 1035' elevation). 	\$ 1,750,000
<ul style="list-style-type: none"> • Evaluate hydraulic piezometers and investigate high pore pressure & seepage. 	\$ 50,000
<ul style="list-style-type: none"> • Repair leak in conduit chamber. Repairing chamber wall is critical for performance of required inspections and maintenance (Dam is a DSAC III rated structure). 	\$ 260,000
<ul style="list-style-type: none"> • Update water control plan, additional operations of dam and reservoir, additional water control management, spillway erosion study, and investigate service gates. 	\$ 500,000
<ul style="list-style-type: none"> • Continue modernization of campground and day-use park with Americans with Disabilities Act (ADA) compliant accessible walkways, repair of picnic shelters, erosion control, and paving within Ft. Hamby Park. 	\$ 250,000
<ul style="list-style-type: none"> • Continue renovation of the visitor assistance center to accommodate new displays in the environmental education center. 	\$ 50,000
<ul style="list-style-type: none"> • Negotiate new and existing water supply agreements (drought of record occurred in December 2002). 	\$ 50,000
<ul style="list-style-type: none"> • Achieve compliance with Section 110 of the National Historical Preservation Act, ER/EP 1130-2-540. 	\$ 25,000
<ul style="list-style-type: none"> • Perform required annual maintenance of dam, intake control tower, electric & hydraulic system, instrumentation, pumps & motors, shop & maintenance areas to meet minimum legal responsibilities and paving and marking operational roads. 	\$ 50,000
<ul style="list-style-type: none"> • Replace 11 individual aging vault toilets located within 3 campgrounds and 7 separate day-use parks. 	\$ 150,000
<ul style="list-style-type: none"> • Renovation of three single-lane boat ramps located at three day-use parks. 	\$ 250,000
<ul style="list-style-type: none"> • Renovate 20 campsites at Warrior Creek campground. Renovation includes upgrading electric utilities at sites to the new 100 amp service 	\$ 100,000

PROJECT INFORMATION – W. Kerr Scott Dam and Reservoir, NC (O&M) – Continued

standard, replacing rotting railroad tie timbers around campsites, rebuilding steps and walkways for ADA accessibility around restrooms and swim beach.	
Total	\$ 4,000,000

6. OTHER INFORMATION: None.