

Project Description

SC DHEC seeks one or more engineering firms to provide assistance to Dam Safety Program Staff and management with regards to the Program's execution of its responsibilities under the Dams and Reservoirs Safety Act and the Dams and Reservoirs Safety Act Regulations. The selected firm(s) will possess a vast and varied set of skills that the Program can call upon when it either needs to supplement existing capabilities or acquire new ones. Requests for services will be on an as-needed basis, and the amount of work will likely fluctuate widely depending on variables such as: extreme weather events, changes to state law and regulations, program staffing, etc.

The length of the contract between SC DHEC and the selected firm will be for one year, with two one-year options to renew. During the term of this contract, the selected firm will be precluded from performing engineering services related to dams regulated by the South Carolina Dam and Reservoirs Safety Act and South Carolina Dam and Reservoirs Safety Act Regulations.

Professional Services Anticipated for Contract

The selected firm(s) will primarily be performing highly technical, professional engineering services related to specialized civil engineering fields including, but not limited to: hydrology, hydraulics, structural engineering, and geotechnical engineering. These services may be required in any of the following activities:

1. Technical assistance with permit application reviews for construction of new dams or repair, alteration, or removal of existing dams. Requested services may range from simple consultation to providing detailed technical comments to participating in conferences with dam owners and their consultants. Services may include providing recommendation to the Department whether a permit application is appropriate and of sufficient to be approved.

Use of advanced hydrological and hydraulic (H&H) modeling to assist with hazard class determinations and spillway design flood determinations for proposed or existing dams.

Provide technical training of Program staff.

Provide construction management and engineering services on projects where the State is dewatering reservoirs and/or breaching dams.

2. Assist Program staff with, and/or perform independently, preliminary inspections of dams.
3. Assist Program staff with, and/or perform independently, final inspections of dams upon completion of permitted work, to include review of consulting engineer's submittals including certification of completion, construction quality assurance test results, record drawings, etc. Services may include providing recommendation to the Department whether a Certificate of Completion and Operation is appropriate.
4. Development of temporary or long-term plans to render dams of concern safe. The plans include all necessary permit applications. Consideration of environmental, right-of-way, regulatory and access issues for the construction contractor must be included. Work plans would include, but not be limited to, safe dewatering rates, pumping schematics, intake and discharge locations, erosion and sediment control measures placement during pumping, heavy equipment ingress/egress route recommendations, and reviewing upstream and downstream conditions for the adequate conveyance of water from the dam. Coordination with and preparation of work order for the construction contract are included.
5. Providing project management, project control, accounting and providing for site safety as well as period observation and monitoring of construction contractor.
6. Providing meteorological consulting relative to dam site watersheds and provide regular updates to DHEC and construction contractors as necessary.
7. Coordinating with the construction contractor(s) in plan development, obtaining site access, obtaining pricing, as well as care of water and erosion and sediment control.
8. Providing implementation support to include scope of work preparation, project restoration, work site monitoring, and construction administration.
9. Performing other duties as required.
10. Provide scalable support to Program staff with 24/7 availability in times of natural disasters to include all of the above in addition to:
 - a. Rapid field assessment of dams,
 - b. Geographic Information System (GIS) support,
 - c. Dam break inundation modeling and mapping, and
 - d. Any other task within the Contractor's ability as may be requested.