

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT

20. EXAMPLE PROJECT KEY NUMBER

(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)

1

21. TITLE AND LOCATION <i>(City and State)</i> Saluda Dam Remediation Columbia, South Carolina		22. YEAR COMPLETED	
		PROFESSIONAL SERVICES 2005	CONSTRUCTION <i>(If applicable)</i> 2005
23. PROJECT OWNER'S INFORMATION			
a. PROJECT OWNER South Carolina Electric & Gas Company	c. POINT OF CONTACT NAME S. Harold Moxley, P.E.	c. POINT OF CONTACT TELEPHONE NUMBER (803) 217-9965	

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost.)*

PROJECT DESCRIPTION

A 208 ft high RCC gravity section 2325 ft long fits in between the existing "semi-hydraulic fill" Saluda Dam, and its hydroelectric powerhouse. The RCC section together with rockfill sections on each end were designed by Paul C. Rizzo and Associates to "catch the dam and reservoir" should there be a reoccurrence of the 1886 Charleston, South Carolina earthquake. If the design earthquake should occur, it was determined that the existing embankment could liquefy, putting approximately 120,000 persons living downstream in Columbia, South Carolina in jeopardy. The project cost is in excess of \$250 million.

PROJECT HIGHLIGHTS

- Largest volume RCC dam in the eastern USA
- Unusual rock foundation that is competent, but varies in elevation considerably
- New 24 hour record for RCC placement (18,608 cubic yards)

SERVICES PROVIDED

Ken Hansen was the RCC expert retained by FERC on this project, which required more than 1.31 million cubic yards of RCC. In his capacity, he provided technical review for all aspects of design and construction of the test sections and the actual dam over a five year period. Mr. Hansen provided comments on RCC materials, RCC mixture proportions, gravity dam design, thermal studies, and construction methods to assure the safety of the structure and that the design is in compliance with FERC guidelines.

PROJECT COSTS

- Firm's Amount: \$109,000 fee (to date)



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME Kenneth D. Hansen, P.E.	(2) FIRM LOCATION <i>(City and State)</i> Greenwood Village, Colorado	(3) ROLE Independent RCC expert consultant to FERC
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