

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.)

8

21. TITLE AND LOCATION <i>(City and State)</i> Xingo Dam Northeastern Brazil		22. YEAR COMPLETED	
		PROFESSIONAL SERVICES 1994	CONSTRUCTION <i>(If applicable)</i> 1994
23. PROJECT OWNER'S INFORMATION			
a. PROJECT OWNER CHESF	c. POINT OF CONTACT NAME Albert Jorge Cavalcanti		c. POINT OF CONTACT TELEPHONE NUMBER 011-558-251-0011

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

PROJECT DESCRIPTION

Xingo is a 140 m (459 ft) high concrete faced rockfill (CFRF) dam that is part of a hydroelectric generating scheme on the San Francisco River in northeast Brazil. The two RCC applications included (1) a stair-stepped overlay to a height of 50 m (164 ft) on the downstream slope to protect the dam from failure in case of overtopping during construction and (2) replacement of poor quality rock and to buttress the downstream end of the high capacity spillway.

PROJECT HIGHLIGHTS

- One of the highest concrete faced rockfill dams in the world
- RCC protects embankment from overtopping during construction and to buttress downstream end of spillway

SERVICES PROVIDED

During four trips to the site, Mr. Hansen served as the RCC and concrete expert consultant mainly involved with two RCC applications associated with the CFRF dam. Mr. Hansen's work included inspecting all RCC and concrete construction, reports on mixture proportions, and resulting properties, including the concrete face and its plinth. Reports were prepared for the Board of Consultants, who met one week after Ken's site visits. Filling of the reservoir could not start until Mr. Hansen approved the quality of the concrete face.

PROJECT COSTS

- Firm's Amount: \$ N/A



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 and concrete expert consultant
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