

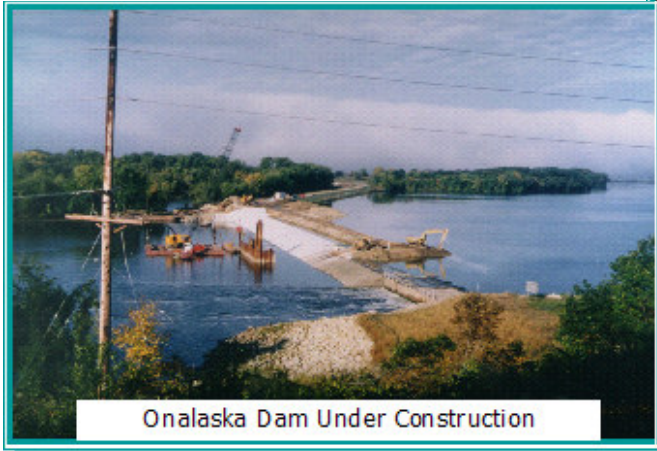
Onalaska Dam Rehabilitation Meets Requirements

The Onalaska Dam, located near Lacrosse, WI is built to create pool No. 7 on the Upper Mississippi River. The dam consists of two components: a nonoverflow dam and a submersible dam. The non-overflow dam is a 1,600' earthen embankment and connects the right abutment of the submersible dam with French Island. The 670' long sub-mersible dam consists of a culvert spillway and an overflow earthen embankment pro-ected by derrickstone.

Over the years the existing culverts had caused erosion of the river bed, and the derrickstone had deteriorated.



Onalaska Dam



Onalaska Dam Under Construction

PCE, along with its subconsultants, were selected to design the rehabilitation of the dam including replacement of this dam, including replacement of the derrickstone with a concrete cap, construction of spur dikes on the upstream side of the dam, rehabilitation of culvert spillway include-ing new culverts, and the addition of rip rap and rock fill for downstream pro-tection.

The challenge was to design the project so that the pool upstream of the dam was maintained. This required construction over two seasons and extensive coffer dam and sheet piling. The DNR also required that a minimum flow of 500 cubic feet per second be maintained during the rehabilitation of the dam to prevent fish kill downstream of the dam. The project was completed on schedule with minimal change orders.

Client: US Corps of Engineers, St. Paul District

Client Contact: Neil Helming

Construction Year: 1995

Project Cost: \$3.2 Million



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