

Lewis Creek Dam and Lewis Creek Reservoir

OWNER

Gulf States Utilities Company.

ENGINEER (Design)

Brown and Root, Inc.

LOCATION

On Lewis Creek in Montgomery County, about 3 miles west of Willis.

DRAINAGE AREA

The drainage area is 4.4 square miles. Water will be purchased by contract from Lake Conroe and pumped as required to maintain desirable lake level.

DAM

Type	Earthfill
Length	12,836 ft
Height above river bed	54 ft
Top width	18 ft
Top elevation	274.0 ft above msl

SPILLWAY

Location	Near left end of the dam
Type	Concrete ogee
Length (net)	50 ft
Control	2 tainter gates, each 25 by 19 ft
Crest elevation	252.0 ft above msl

OUTLET WORKS

Powerplant water circulated by pumps through condensers and returned to the lake by a canal to a distant point from the intake.

POWER GENERATION FEATURES

Initial capacity (2 units)	500,000 kw
Ultimate capacity	1,000,000 kw

STATE AUTHORIZATION

Permit No. 2433 (Application No. 2537) September 21, 1967, to Gulf States Utilities Company authorized a dam to impound 17,000 acre-feet of water. Permit allows diversion of water purchased from Lake Conroe for the initial filling and to maintain the desired operating level of Lewis Creek Reservoir. The water will be used for domestic and industrial purposes associated with the maintenance and operation of a steam-electric generating plant.

RESERVOIR DATA (Based on design drawings)

Capacity	16,400 acre-feet at elevation 267.0 ft above msl
Area	1,010 acres at elevation 267.0 ft above msl

GENERAL

Construction started	November 11, 1967
Dam completed	August 25, 1969
Impoundment of water began	February 12, 1969
Power generation began	October 1970
General contractor of the dam	Brown and Root, Inc.
Estimated cost of the dam	\$3,685,150 (including pipeline and pump station)

