

Valley Dam and Valley Lake

OWNER

Texas Power and Light Company.

ENGINEER (Design)

Ebasco Service, Inc., New York.

LOCATION

On Brushy Creek in Fannin County, 2.5 miles north of Savoy.

DRAINAGE AREA

8 square miles. Main water supply is pumped from the Red River at the mouth of Sands Creek. Water is purchased and released from Lake Texoma.

DAM

Type Earthfill
 Length 2,770 ft
 Height 55± ft
 Top width 20± ft

SPILLWAY (emergency)

Type Natural ground (country type)
 Length 200 ft
 Crest elevation 612.0 ft above msl

SPILLWAY (service)

Location Right end of dam
 Crest length 200 ft
 Crest elevation 611.0 ft above msl
 Control None

OUTLET WORKS

Purpose Low flow
 Size 18-inch pipe
 Invert elevation 605.0 ft above msl

POWER FEATURES

3 generating units with a total capacity of 1,030,000 kw are installed in the Valley Creek Plant.

STATE AUTHORIZATION

Permit No. 1939 (Application No. 2131), November 3, 1959, authorized construction of a dam to create a reservoir and annual use of 10,000 acre-feet of water. In order to assure this amount of water and maintain operating level, a contract was made for storage space and release of water from Lake Texoma.

RESERVOIR DATA (Based on 1959 area-capacity curve from Texas Power and Light Company)

FEATURE	ELEVATION (FEET ABOVE MSL)	CAPACITY (ACRE-FEET)	AREA (ACRES)
Top of dam	617.5	—	—
Crest emergency spillway	612.0	17,170	1,140
Crest of service spillway	611.0	16,400	1,080
Operating level	610.0	15,200	1,040
Low flow outlet	605.0	10,550	760

GENERAL

Construction started April 18, 1960
 Dam completed September 5, 1961
 Impoundment of water began December 1960
 First generating unit began operation November 1962
 General contractor (dam) Vilbig Construction Company

