

Tradinghouse Creek Dam and Tradinghouse Creek Reservoir

OWNER

Texas Power & Light Company.

ENGINEER (Design)

Forrest and Cotton, Inc.

LOCATION

On Tradinghouse Creek in McLennan County, 9 miles east of Waco.

DRAINAGE AREA

39 square miles.

DAM

Type Earthfill
 Length 7,600 ft including service spillway
 Height 60 ft above streambed
 Top width 20 ft
 Top elevation 456.0 ft above msl

SPILLWAY (emergency)

Location Right end of the dam
 Crest length 1,500 ft
 Crest elevation 450.0 ft above msl

SPILLWAY (service)

Location Left end of the dam
 Type Concrete ogee section
 Crest length (net) 80 ft
 Control 2 tainter gates, each 40 by 20 ft
 Crest elevation 430.0 ft above msl

OUTLET WORKS

None. Water is circulated from reservoir to powerplant and back to reservoir.

POWER FEATURES

Present construction—2 units with total capacity of 1,340,000 kw. Ultimate—3 units with total capacity of 2,000,000 kw.

STATE AUTHORIZATION

Permit No. 2250 (Application No. 2474) January 16, 1967, authorizes construction of a dam to impound 37,814 acre-feet of water and to divert and use 15,000 acre-feet annually for the operation of a steam-electric powerplant. Water is purchased from the Brazos River Authority for pumping and to maintain downstream requirements. Reservoir operating level is maintained by pumping from the Brazos River.

RESERVOIR DATA

FEATURE	ELEVATION (FEET ABOVE MSL)	CAPACITY (ACRE-FEET)	AREA (ACRES)
Top of dam	456.0	—	—
Emergency spillway crest	450.0	—	—
Normal water surface elevation	447.0	37,814	2,010
Service spillway crest	430.0	—	—
Streambed	390±	—	—
Sediment storage	2	2,690	—
Usable conservation storage space	—	35,124	—

GENERAL

Construction started February 13, 1967
 Dam completed September 24, 1968
 Impoundment of water began (pumping) July 5, 1968
 General contractor Amis Construction Company

