

TALLASSEE SHOALS HYDROELECTRIC PROJECT
FERC PROJECT NO. 6951

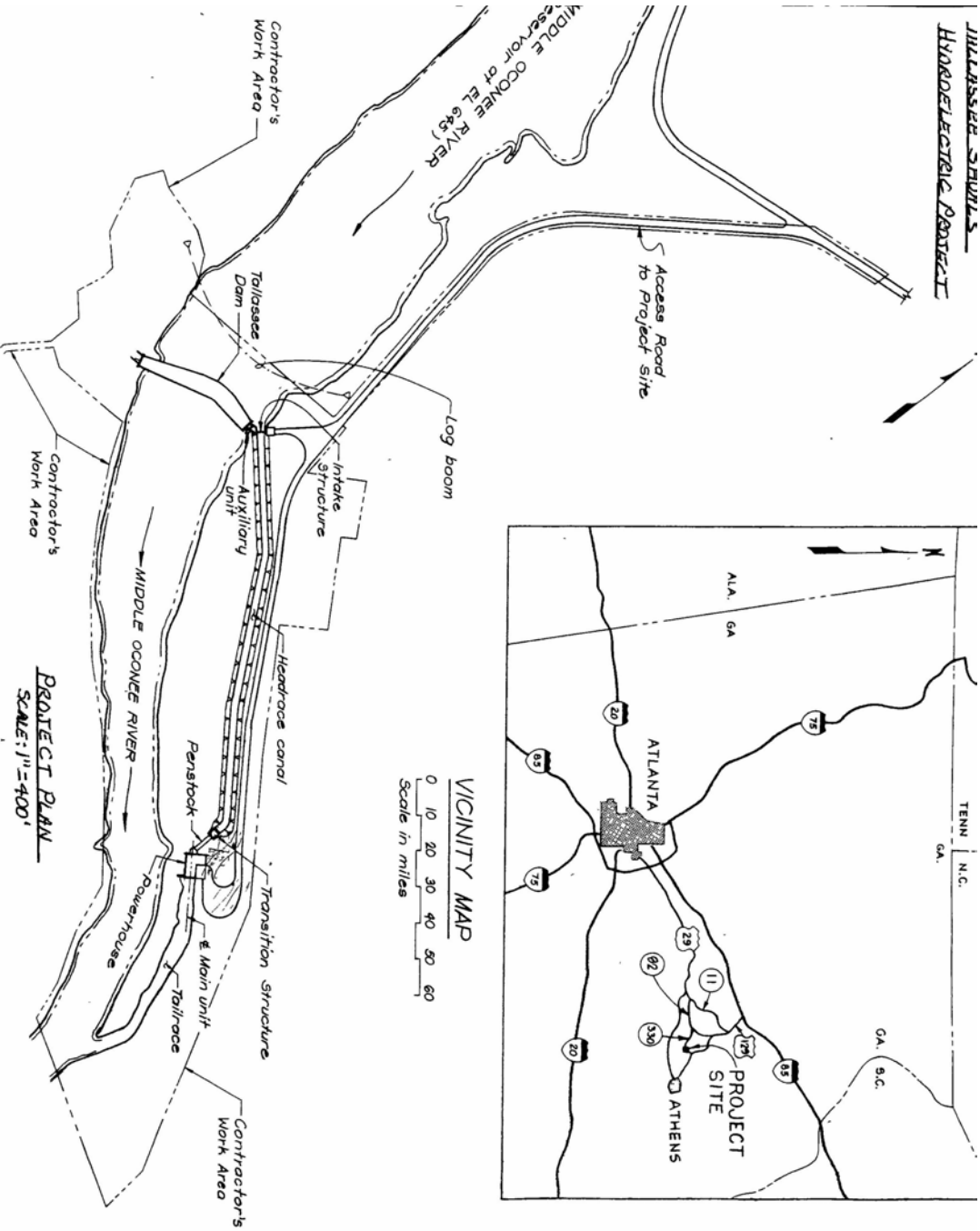
PROJECT DESCRIPTION:

1) The Tallassee Shoals Hydroelectric Project is located on the Middle Oconee River just downstream of GA Hwy 330, in Clarke County and Jackson County, Georgia. This existing project was constructed in 1984 & 1985. The project began operation in 1986. The project has not operated for several years, due to major mechanical problems. The existing project consists of:

- (i) Two generating units with a total nameplate capacity of 2322 KW.
- (ii) The units consist of a horizontal double regulated Kaplan style turbine (2222 kw), and a small vertical Kaplan style turbine with a submersible generator (100 kw).
- (iii) The project operates in a run-of-the river mode.
- (iv) The estimated average annual power generation for the project is 6,500,000 kWh.
- (v) The estimated average head on the plant is 41 feet.
- (vi) The normal surface area of the reservoir is 37 acres at the surface normal operating pool elevation of 645 feet (MSL). Gross storage capacity of the reservoir is 368 acre-feet.
- (vii) The estimated hydraulic capacity of the plant is 1040 CFS. Average annual flow at the existing dam is 530 CFS. The drainage basin of the Middle Oconee River upstream from the existing dam is 358 square miles.
- (viii) The project consists of the following features:

The site of this project is the site of an existing concrete gravity dam. The dam was originally constructed in 1902, and upgraded in 1984 & 1985. The project will utilize the existing dam, existing powerhouse, existing intake, existing 1300 foot headrace, and existing 750 foot tailrace.

**JULIUSSE SHWILS
HYDROELECTRIC PROJECT**



TENN. N.C.
GA.

ALA. GA.

20

75

85

75

39

11

530

20

85

20

PROJECT SITE

ATHENS

GA. S.C.

ATLANTA

0 10 20 30 40 50 60
Scale in miles

Contractor's Work Area

MIDDLE OCONEE RIVER
(Reservoir at EL 645)

Access Road to Project Site

Log boom

Intake structure

Auxiliary unit

Headrace canal

Penstock

Transition structure

Main unit

Powerhouse

Tailrace

Contractor's Work Area

Contractor's Work Area

PROJECT PLAN
SCALE: 1" = 400'

MIDDLE OCONEE RIVER

TALLASSEE SHOALS HYDROELECTRIC PLANT



LOOKING UPSTREAM AT DAM



POWERHOUSE, HEADRACE, & TAILRACE

TALLASSEE SHOALS HYDROELECTRIC PROJECT

Agencies/Organizations involved in recommending conditions for Tallassee Shoals Hydroelectric Project:

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