

## STRUCTURE 335

This structure is a reinforced concrete, gated spillway with discharge controlled by cable operated, vertical lift gates. Operation of the gate is manually controlled and the gate is operated in accordance with the operational criteria. The structure is located at the south end of the L-30 borrow canal about 20 miles west of Miami.

### PURPOSE

This structure functions principally to make supplemental water deliveries to South and East Dade County.

### OPERATING CRITERIA

This structure is operated in conjunction with S-334 to make supplemental deliveries to South and East Dade County. Such releases are initiated from either or both these structures whenever the canal stages in L-31N are one foot below optimum or when the headwater stage at S-25B or S-22 falls below 2.0 during dry periods. During such transfer operations, the headwater stage at S-335 is maintained between 5.0 and 6.0.

When supplemental deliveries are not being made, this structure is operated in conjunction with S-32A to maintain the optimum level of 6.0 in the L-30 borrow canal. Additional operational guidelines are included in IOP.

### FLOOD DISCHARGE CHARACTERISTICS

	Design
Discharge Rate	<u>525</u> cfs * <u>    </u> % SPF
Headwater Elevation	<u>5.0</u> feet
Tailwater Elevation	<u>4.8</u> feet
Type Discharge	uncontrolled <u>submerged</u>

\*Not related to standard project flood

## DESCRIPTION OF STRUCTURE

Type reinforced concrete, gated spillway

Weir Crest

Net Length 20 feet

Elevation -4.2 feet

Service Bridge Elevation 11.5 feet

Water Level which will by-pass structure 11.5 feet

Gates

Number 1

Size 12.2 ft. high by 20 ft. wide

Type Vertical lift gate

Bottom elevation of gates, full open 5.0 feet

Top elevation of gates, full closed 8.0 feet

Control Manual and remote computer control

Lifting Mechanism

Normal power source Commercial electricity

Emergency power source LP gas engine driven generator

Type Hoist hydraulic cylinder activated by electric motor  
driven pumps with emergency hand pump, connected  
to gates by steel cables.

Date of Transfer: March 16, 1979

**ACCESS:** Located on SR 27 about 1 mile north of U.S. 41

## HYDRAULIC AND HYDROLOGIC MEASUREMENTS

Water Level Remote digital headwater and tailwater recorder

Gate Position Recorder Remote digital recorder

## DEWATERING FACILITIES

Storage \_\_\_\_\_

Type Steel needle beams and aluminum needles

Size and Number (Per bay) Upstream and downstream; Beams 12 WF 40, 21' -11" long