STRUCTURE 333

This structure is a reinforced concrete, gated spillway with discharge controlled by one cable operated, vertical lift gate. Operation of the gate is manually controlled and the gate is operated to make releases from Conservation Area 3A into the Tamiami Canal. The structure is located on L-67 at the southeast corner of Conservation Area 3A about 30 miles west of Miami.

PURPOSE

This structure functions principally to make water deliveries from Conservation Area 3A to south and eastern Dade County to Shark River and Taylor Slough areas of the Everglades National Park. It can be used to make regulation releases from Conservation Area 3A.

OPERATING CRITERIA

When this structure is operated to make deliveries to south or east Dade County from Conservation Area 3, it may be operated alone or with S-337. The total delivery will be the amount necessary to maintain the appropriate stages at S-331, S-25B and S-22.

When S-333 is used in conjunction with S-12 to make regulatory releases to the Everglades National Park at Shark River Slough, the structure will be operated in accordance with IOP.

(1) When water levels at G-3273 have been above 6.8 feet, NGVD for 24 hours, S-333 will be closed.

(2) Discharges to Shark River Slough of the Everglades National Park are a function of a rain driven model. The quantities are determined weekly by the Corps of Engineers and given by telecom each Monday, to be implemented by the District on Tuesday.

FLOOD DISCHARGE CHARACTERISTICS

	Design
Discharge Rate	1350 cfs
	* % SPF
Headwater Elevation	7.5 feet
Tailwater Elevation	7.0 feet
Type Discharge	Uncontrolled, submerged

*Not related to standard project flood

DESCRIPTION OF STRUCTURE

Type reinforced concrete, gated spillway

Weir Crest

Net Length 29 feet

Elevation -3.1 feet

Service Bridge Elevation 14.5 feet

Water Level which will by-pass structure 14.5 feet

Gates

Number 1

Size 14.6 ft. high by 29 ft. wide

Type vertical lift gate

Bottom elevation of gates, full open 8.5 feet

Top elevation of gates, full closed 11.5 feet

Control Manual

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 gate by steel cables.

Date of Transfer: December 15, 1978

ACCESS: Located on U.S. 41 at junction of L-67 and L-29

HYDRAULIC AND HYDROLOGIC MEASUREMENTS

Water Level On-site and remote digital upstream and downstream 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 24WF/30, with 18" end section, 30' - 11" long

Needles 5 @ 4', 1 @ 3', 1 @ 2' wide