

Standing Instructions to the Project Operator
for Water Control
Tropicana Detention Basin

Table of Contents

TITLE PAGE	i
PERTINENT DATA SHEET	ii
PERTINENT DATA SHEET (METRIC UNITS).	iii
SI METRIC TO ENGLISH UNITS CONVERSION SHEET	iv
PHOTOGRAPH	v
TABLE OF CONTENTS	vi
I. BACKGROUND AND RESPONSIBILITIES	I-1
A. General Information	I-1
1. Purpose of Document	I-1
2. Project Purpose and Authorization	I-1
3. Project Location and Description	I-1
4. Project Operating Constraints	I-3
5. Project Operation and Maintenance	I-3
B. Role of the Project Operator	I-4
1. Normal Conditions	I-4
2. Emergency Conditions	I-5
3. Initial Filling of Detention Basin	I-5
C. Chain of Command for Reservoir Operations	I-6
II. DATA COLLECTION AND REPORTING	II-1
III. WATER CONTROL ACTION AND REPORTING	III-1
A. Normal Conditions	III-1
B. Emergency Conditions	III-1
C. Inquiries	III-1
D. Water Control Problems	III-1
E. Communication Outages	III-1
IV. REFERENCES	IV-1
V. UPDATING	V-1

TABLES

Table I-1	Chain of Command for Reservoir Operations Decisions at Tropicana Detention Basin
Table I-2	Chain of Command for Response Plan Implementation at Tropicana Detention Basin

Standing Instructions to the Project Operator
for Water Control
Tropicana Detention Basin

Table of Contents

Table I-3	Tropicana Detention Basin Area Table
Table I-3a	Tropicana Detention Basin Area Table (Metric Unit Version)
Table I-4	Tropicana Detention Basin Storage Table
Table I-4a	Tropicana Detention Basin Storage Table (Metric Unit Version)
Table I-5	Tropicana Detention Basin Outlet Works Discharge Table
Table I-5a	Tropicana Detention Basin Outlet Works Discharge Table (Metric Unit Version)
Table I-6	Tropicana Detention Basin Outlet Works and Emergency Spillway Discharge Table
Table I-6a	Tropicana Detention Basin Outlet Works and Emergency Spillway Discharge Table (Metric Unit Version)

PLATES

PLATE 1	Vicinity and Project Location Maps
PLATE 2	Project Location
PLATE 3A	Tropicana Detention Basin Sections -- Plan No. 1
PLATE 3B	Tropicana Detention Basin Sections -- Plan No. 2
PLATE 4	Tropicana Detention Basin Sections -- Cross-Sections
PLATE 5	Tropicana Detention Basin Dam Embankment and Spillway Cross Sections
PLATE 6	Tropicana Detention Basin - Dike Embankment and Spillway Cross Sections and Details
PLATE 7	Tropicana Detention Basin - Dam Outlet Works Conduit -- Plan & Profile Sta. 40+94.028 to Sta. 39+10.000
PLATE 8	Tropicana Detention Basin -- Dam Outlet Works Conduit -- Plan & Profile Sta. 39+10.000 to Sta. 37+03.907
PLATE 9	Tropicana Detention Basin -- Dam and Dike Embankments -- Profiles
PLATE 10	Tropicana Detention Basin -- Dike Outlet Works Conduit Plan, Profile and Section
PLATE 11	Tropicana Detention Basin -- Dam Outlet Works Intake Structure -- Structural Details
PLATE 12	Tropicana Detention Basin -- Dam Outlet Works Conduit Sta. 38+23.222 to Sta. 37+03.907 Structural Plan, Profile and Details
PLATE 13	Tropicana Detention Basin -- Dam Outlet Works Intake

Standing Instructions to the Project Operator
for Water Control
Tropicana Detention Basin

Table of Contents

	Structure Trash Rack -- Structural Details
PLATE 14	Tropicana Detention Basin -- Dam Outlet Works Intake Structure Steel Bulkhead -- Structural Details Sta. 35+60.000 to Sta. 14+82.887
PLATE 15	Tropicana Detention Basin -- Dike Outlet Works Intake Structure -- Structural Profile and Details
PLATE 16	Tropicana Detention Basin -- Detention Basin Depth Gage and Hydrologic Instrumentation System -- Plan and Structural Details
PLATE 17	Tropicana Detention Basin Storage Allocation Diagram
PLATE 18	Tropicana Detention Basin Surface Area vs. Elevation Curves
PLATE 19	Tropicana Detention Basin Storage Volume vs. Elevation Curves
PLATE 20	Tropicana Detention Basin Outlet Discharge Curve
PLATE 21	Tropicana Detention Basin Spillway Rating Curve
PLATE 22	Reservoir Design Flood Basin Hyetograph & Inflow, Outflow, and Stage Hydrographs
PLATE 23	Probable Maximum Flood Basin Hyetograph & Inflow, Outflow, and Stage Hydrographs
PLATE 24	Tropicana Detention Basin Hydrologic Instrumentation Facility Layout

PHOTOGRAPHS

- Photo 1. Tropicana Detention Basin. Dike (with individuals atop) separating north and south bays. Outlet works intake structure (with enclosing fence) is at right of photo.
- Photo 2. Tropicana Detention Basin. North bay showing downstream end of south-to-north bay conduit.
- Photo 3. Tropicana Detention Basin. Outlet works intake structure.
- Photo 4. Tropicana Detention Basin. Instrumentation vault and precipitation gage (pipe).