



(Table of Contents continued...)

II - Painted Rock Dam

<u>Para</u>	<u>Title</u>	<u>Page</u>
2-1.	Project Background .....	2-1
2-2.	Downstream Development .....	2-2
2-3.	Agencies Involved in the Operation of the Dam .....	2-3
2-3.a.	The Corps of Engineers (COE).	
	2-3.b. US Bureau of Reclamation (USBR).	
	2-3.c. Bureau of Indian Affairs.	
	2-3.d. Wellton-Mohawk Irrigation District (WMIDD).	
	2-3.e. Salt River Project (SRP).	
	2-3.f. US International and Boundary Commission.	
2-4.	Constraints at Painted Rock Dam .....	2-3
	2-4.a. Limited Downstream Channel Capacity.	
2-5.	Painted Rock Operation During the Floods of 1993.....	2-4
2-6.	Operations of Other Projects Above Painted Rock Dam.....	2-6

Tables

2-1.	Pertinent Data for Existing Dams Upstream of Painted Rock Dam
2-2.	Major Gila River Crossings Downstream of Painted Rock Dam
2-3.	Maximum Inflow, Outflow, WSE and Storage at Painted Rock Dam During Jan - Feb 1993 Floods
2-4	Frequency Perspective On Painted Rock Dam Inflow During Jan - Feb 1993 Floods
2-5	Summary of COE's Painted Rock Dam Operation During Jan - Feb 1993 Floods

Figures

2-1	Gila River Basin, AZ
2-2	Painted Rock Dam Reservoir, Maricopa County, AZ
	Pertinent Data
2-3	Storage Allocation Diagram, Painted Rock Dam
2-4a.	Plan A - Outlet Gate Operation Schedule Painted Rock Dam
2-4b.	Plan B - Outlet Gate Operation Schedule Painted Rock Dam
2-5	1 Jan - 15 Mar 1993 Inflow-Outflow Hydrograph at Painted Rock Dam.
2-6	1 Jan - 15 Mar 1993 WSE and Storage at Painted Rock Dam.

## OPERATION OF ALAMO AND PAINTED ROCK DAMS DURING THE JANUARY AND FEBRUARY 1993 FLOODS

### Introduction.

During the months of January and February 1993, the State of Arizona was hit by a series of major storm events which caused widespread flooding, damaged properties and threatened the lives of many people. The Corps of Engineers operates 2 flood control projects in the State, namely: 1) Alamo Dam, located on the Bill Williams River Basin, and 2) Painted Rock Dam, located on the Gila River Basin. The Corps operated these two projects, for their authorized project purposes which include flood control, as described in the report. Coordination with different government agencies, both local and federal was essential in the operation of the two projects.

The storm events were so severe that new historic maximums were recorded at both reservoirs, including a spillway flow at Painted Rock Dam, a first time ever for a Corps' Los Angeles District's (LAD) project. The purpose of this report is to present and document the operation of Alamo and Painted Rock Dams and at the same time provide information to the LAD's Hydrologic Section in its preparation of the 1993 Flood Damage Report for Arizona.