

TABLE OF CONTENTS

<u>PARAGRAPH NO.</u>	<u>SUBJECT</u>	<u>PAGE NO.</u>
	Pertinent Data.....	Inside Front Cover
	Photo.....	
Chapter 1	General Information.....	1
1	Authorization of Manual.....	1
2	Scope of Manual.....	1
3	Project Authorization.....	1
4	Project Purpose.....	1
Chapter 2	Basin Information.....	
5	Project Location.....	1
6	Drainage Area.....	1
7	Soils and Vegetal Cover.....	2
8	Economic Justification of Project.....	2
9	Existing Structures Affecting Runoff.....	2
10	Climatology.....	2
11	Runoff Characteristics.....	3
12	Past Floods.....	3
13	Storms and Floods of January 1916.....	3
14	Storm and Flood of 19 August 1954.....	4
15	Storm and Flood of 12-20 December 1967.....	4
16	Downstream Channel.....	4
Chapter 3	Project Information	5
17	Construction History.....	5
18	Relationship to Coordinated Plan of Development for the Basin.....	5
19	Description of Facility.....	5
20	Dam.....	5
21	Dike.....	6
22	Outlet Works.....	6
22a	Intake Structure.....	6
22b	Outlet Conduit.....	6
22c	Outlet-and-Diversion Structure.....	6
23	Spillway.....	7
24	Reservoir.....	7
25	Basis for Design.....	7
25a	Reservoir Design Flood.....	7
25b	Sediment Volume.....	8
25c	Spillway Design Flood.....	8
25d	Reservoir Design Flood Routing.....	8
25e	Spillway Design Flood Routing.....	8
26	Revised Hydrology.....	8
26a	Revised Standard Project Flood.....	8a
26b	Revised Probable Maximum Flood.....	8b

TABLE OF CONTENTS -- CONTINUED

<u>PARAGRAPH</u> <u>NO.</u>	<u>SUBJECT</u>	<u>PAGE</u> <u>NO.</u>
Chapter 4	Operation.....	9
27	Responsibility for Operation.....	9
28	Flood-Control Operation Plan.....	9
29	Operation of Outlet-and-Diversion Structure.....	9
30	Reporting Criteria.....	9
31	Communication Facilities.....	9
32	Emergency Notification.....	9
33	Operation Record.....	10
Chapter 5	Collection of Hydrologic Data.....	10
34	Hydrologic Facilities.....	10
34a	Reservoir Staff Gage.....	10
34b	Reservoir Water Surface Recorder.....	10
34c	Precipitation Gages.....	10
34d	Stream Gages.....	11
35	Measurement of Sedimentation.....	11
Chapter 6	Coordination with Other Agencies.....	11
36	A List of Agencies.....	11
36a	National Weather Service.....	11
36b	Maricopa County Board of Supervisors.....	11
36c	Pinal County Board of Supervisors.....	12
36d	U.S. Geological Survey.....	12
37	Coordination for Recreational Development of Reservoir Area.....	12

TABLE OF CONTENTS - CONTINUED

LIST OF TABLES

<u>TABLE NO</u>	<u>TITLE</u>	<u>PAGE</u>
1	Climatological Data at Pinal Ranch, Arizona.....	13
2	Climatological Data at Superior, Arizona.....	14
3	Precipitation Data at Whitlow Ranch Dam, Arizona.....	15
4	Runoff Data, Queen Creek at Whitlow Dam Site Near Superior, Arizona.....	17
5	Area and Gross Capacity - Whitlow Ranch Dam.....	18
6	Basin Characteristics.....	19
7	Comparison of Design Floods.....	19

LIST OF PLATES

<u>PLATE NO.</u>	<u>TITLE</u>
1	Project Location and Downstream Channel Capacities
2	Topography, Drainage Area and Hydrologic Map
3	Standard Project Flood Overflow Area
4	Storm and Flood of 19 August 1954
5	General Plan of Reservoir
6	Embankment - General Plan
7	Embankment - Profile and Section
8	Dike - Plan and Profile
9	Outlet Rating Curve, 5.5-Ft.-Dia. Ungated Conduit
10	Outlet Works - Plan Profile and Conduit Sections
11	Outlet Works Intake Structure
12	Outlet Works - Outlet-and-Diversion Structure
13	Spillway - Plan and Profile
14	Spillway Rating Curve
15	Reservoir Area and Capacity Curve
16	Reservoir Design Flood Routing
16-A	Revised Reservoir Design Flood Routing
17	Spillway Design Flood Routing
17-A	Revised Reservoir Design Flood Routing
18	Chain of Command for Reservoir Operations Decisions
19	Key Personnel Normal Operation (Deleted)
20	Organization for Flood-Emergency Operation (Deleted)
21	Key Personnel for Flood-Emergency Operation (Deleted)
22-1	Historical Operation
22-2	Historical Operation
22-3	Historical Operation
22-4	Historical Operation
22-5	Historical Operation
22-6	Historical Operation
23	Monthly Reservoir Operation
24	Discharge Rating Curve for Outflow Gage