R E S E R V O I R R E G U L A T I O N R E P O R T

FOR

TAHCHEVAH CREEK DETENTION
RESERVOIR AND CHANNEL IMPROVEMENTS
WHITEWATER RIVER BASIN, CALIF.

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EXHIBITS

A Code of Federal Regulations (Extract)

RESERVOIR REGULATION REPORT

FOR

TAHCHEVAH CREEK DEETENTION
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PERTINENT DATA

Drainage area	sq. miles	3.2
Reservoir:		
Elevation –		
Flood-control pool	ft., m.s.l.	565.5
Spillway design surcharge level	ft., m.s.l.	576.8
Area –		
Spillway crest	acres	58.0
Spillway design surcharge level	acres	67.8
Top of dam	acres	73.1
Capacity, gross –		
Allowance for sediment	ac.-ft.	300
Spillway crest	ac.-ft.	945
Spillway design surcharge level	ac.-ft.	1,655
Top of dam	ac.-ft.	2,019
Dam – Type		Earthfill
Top elevation	ft., m.s.l.	582
Height above original streambed	ft.	42
Top length (including spillway)	ft.	3,610
Top width	ft.	20
Freeboard	ft.	5.2
Spillway – type		Broadcrested overflow weir
Crest length	ft.	80
Crest elevation	ft., m.s.l.	565.5
Design surcharge	ft.	11.3
Discharge at design surcharge	c.f.s.	9,500
Outlet Conduit:		
Invert elevation	ft., m.s.l.	543
Diameter	inches	36
Length	ft	150
Maximum capacity at spillway crest	c.f.s.	160
Reservoir design flood:		
Duration	hours	12.5
Total volume	ac.-ft	720
Inflow peak	c.f.s.	4,200
Outflow peak	c.f.s.	160
Reduction in peak	c.f.s.	4,040

PERTINENT DATA—Continued

Spillway design food:		
Duration	hours	12
Total volume	ac.-ft	2,420
Inflow peak	c.f.s.	13,000
Outflow peak	c.f.s.	9,500
Reduction in peak	c.f.s.	3,500
Channel:		
Length	ft.	11,400
Capacity, range	c.f.s.	160 to 300