

## IX - WATER CONTROL MANAGEMENT

### 9-01 Responsibilities and Organization

a. Corps of Engineers. Santa Fe Dam is owned, operated, and maintained by LAD which has complete regulatory responsibility for the dam and reservoir.

Water control decisions about reservoir regulation at Santa Fe Dam and other COE facilities in LAD are made by RRS. Table 9-1 shows an organizational chart depicting the chain of command for reservoir regulation.

Gate operation instructions to the dam operator are issued by RRS (see Sections 5-6 and 5-7). In the event that communications between RRS and Santa Fe Dam are interrupted, a set of Standing Instructions to Dam Operator, included in Exhibit A is to be used. Dam operators are part of Operations Branch, Construction-Operations Division.

b. Other Federal Agencies. COE has complete responsibility for the regulation of Santa Fe Dam. Although COE receives data and information from other Federal and local agencies and informs these agencies of major decisions affecting Santa Fe Dam, no other agency has any responsibility in the regulation of Santa Fe Dam. The USGS operates stream gauges in the watershed.

c. State and County Agencies. LACDPW has maintenance responsibility for the San Gabriel River channel downstream of Santa Fe Dam to San Jose Creek and maintains and operates a number of projects in the drainage area, including the spreading grounds both upstream and downstream of Santa Fe Dam. A portion of the reservoir lands has been developed for recreation purposes. The recreation area is operated by LAD but is leased to Los Angeles County. LAD

reserves the right to inundate this land.

d. City Governments. There is no involvement of city governments in the regulation of Santa Fe Dam.

e. Private Organizations. There is no involvement of private organizations in the regulation of Santa Fe Dam.

#### 9-02 Interagency Coordination

LAD coordinates with other Federal, State, County, and local organizations, as well as with the press (media), concerning water control at Santa Fe Reservoir.

a. Local Press and Corps of Engineer Bulletins. The Public Affairs Office of LAD is responsible for interfacing with the press regarding regulation at Santa Fe Dam and flows in the channel downstream of the dam. This is accomplished through interviews and the occasional issuance of press releases. LAD does not issue flood watches or warnings or other status reports or forecasts to the general public. These are the responsibility NWS.

b. National Weather Service. LAD utilizes NWS data and weather forecasts in the regulation of Santa Fe Dam, including the real-time telemetry data from gauges installed in nearby watersheds by the LADCPW in cooperating with NWS. LAD share data with NWS and other agencies both on a real time basis and after the fact.

c. U.S. Geological Survey. LAD receives streamflow data from USGS, primarily on a historical basis in southern California. LAD coordinates with USGS in many different ways, and shares its data with USGS.

d. Los Angeles County Department of Public Works. LAD and LACDPW closely coordinate the operation of their reservoir projects and the maintenance and patrolling of their channels in LACDA.

#### 9-03 Interagency Agreements

No interagency agreements exist with the exception of the land leased to Los Angeles County for recreation purposes.

#### 9-04 Commissions, River Authorities, Compacts and Committees

Santa Fe Dam is not administered by any commission, compacts, or other formal multi-agency agreements.

#### 9-05 Reports

LAD prepares and files several types of reports. Additionally, each month during the runoff season, November through April, a flood situation and runoff potential report is prepared and sent to the South Pacific Division of COE.

Seven specific forms are prepared in conjunction with the District's reservoir regulation at Santa Fe Dam. A copy of each of these forms is included as figures 9-1 through 9-6. These include: Flood Control Basin Operation Report (prepared by each dam operator), Record of Calls (both radio and telephone), Rainfall Records (from manual readings of glass tube raingauges), Reservoir Operation Reports (daily report prepared by RRS) Record of Data from Digital Recorders (precipitation, water surface elevation, and downstream gauge height), and Reservoir Computations (prepared by RRS).

LAD also collects and files charts from recording instruments at

Santa Fe Dam (and other dams), including precipitation, reservoir surface elevation, and gate opening. Daily precipitation totals and, as needed, other data (such as unusually high intensities) are manually extracted from the precipitation charts, and the charts are sent to the National Climatic Data Center of NOAA. The other charts are maintained on file at LAD District Office in RRS.

Table 9-1

Chain of Command for Reservoir Operations Decisions

Corps of Engineers

Los Angeles District

District Engineer

Office Phone Number

(213) 452-3961

Water Control Decisions

Gate Operations

Chief, Engineering Division

Chief, Construction-Operations Division

(213) 452-3629

(213) 452-3349

Chief, Hydrology and Hydraulics Branch

Chief, Operations Branch

(213) 452-3525

(213) 452-3385

Chief, Reservoir Regulation Section

Chief, Operations & Maintenance Section

(213) 452-3527

(626) 401-4008

Chief, Reservoir Regulation Unit

Dam Operator Foreman

(213) 452-3530

(626) 401-4006





### RAINFALL RECORD

STATION						<input type="checkbox"/> HOURLY <input type="checkbox"/> DAILY	DATE
HR	DA	TIME OF READING	GAGE READING	STORM TOTAL	SEASON TOTAL	OBSERVER	REMARKS (SNOW, TEMP., ETC.)
0000	1						
0100	2						
0200	3						
0300	4						
0400	5						
0500	6						
0600	7						
0700	8						
0800	9						
0900	10						
1000	11						
1100	12						
1200	13						
1300	14						
1400	15						
1500	16						
1600	17						
1700	18						
1800	19						
1900	20						
2000	21						
2100	22						
2200	23						
2300	24						
2400	25						
	26						
	27						
	28						
	29						
	30						
	31						
<b>TOTAL</b>							

RESERVOIR OPERATION RE. RT							DATE	TIME		
RADIO CALL SIGN WUK	DAM	WATER SURFACE ELEVATION (FT. MSL)	DIGITAL RECORDER READINGS	RAINFALL			GATE SETTINGS (Printed values show initial settings of gates prior to flood runoff)			
				DIGITAL RECORDER	GLASS TUBE					
					SINCE LAST REPORT (INCHES)	STORM TOTAL (INCHES)	SEASON TOTAL (INCHES)			
411	SEPULVEDA		WS GH					GATES OPEN 9.0 FT. <input type="checkbox"/>		
412	HANSEN		WS GH					GATES OPEN 1.0 FT. <input type="checkbox"/>		
412	LOPEZ		WS GH					GATE OPEN 5.0 FT. <input type="checkbox"/>		
419	SANTA FE		WS GH					#14 OPEN 0.5 FT. <input type="checkbox"/>		
416	BREA		WS GH					GATES OPEN 1.0 FT. <input type="checkbox"/>		
417	FULLERTON		WS GH					GATES OPEN 1.1 FT. <input type="checkbox"/>		
418	CARBON CANYON		WS GH					#1 OPEN 0.5 FT. <input type="checkbox"/>		
421	PRADO		WS GH					GATES 1 & 6 OPEN 1.0 FT. REM. GATES CLOSED <input type="checkbox"/>		
420	SAN ANTONIO		WS GH					GATES CLOSED <input type="checkbox"/>		
415	WHITTIER NARROWS	RIO HONDO POOL	W. PIT	GH				LACFCD DIVERSION GATE OPEN GATE 1 OPEN    FT. GATES 2,3,&4 OPEN    FT. <input type="checkbox"/>		
		E. PIT								
		COMB.								
	SAN GABRIEL POOL	TELEMARK	GH	XXXX				XXXX	XXXX	GATES #8 OPEN 0.30 FT. <input type="checkbox"/>
		W. STAFF								
		E. STAFF								
COMB.	GH									
429	PAINTED ROCK	RES: S T	XXXX		XXXX					GATES OPEN 0.5 FT. <input type="checkbox"/> HOOK: <input type="checkbox"/> ANEMOMETER TEMPERATURE:
		B. PIT								
437	ALAMO	RES: S T	XXXX	XXXX			GATES CLOSED <input type="checkbox"/> GATE #3 BYPASS    CFS <input type="checkbox"/> HOOK: ANEMOMETER: TEMPERATURE:			

FIGURE 9-4



# RESERVOIR COMPUTATIONS

HOURLY       DAILY

DAM					TIME OF READING (IF DAILY)			DATE					
COMPUTED BY				CHECKED BY			DATA SOURCE						
HR.	D.A.	WATER SURFACE ELEV. FT.	STORAGE AC. FT.	GATE STEP NO.	INST. OUTFLOW			HRS.	STORAGE CHANGE		AV. OUTFLOW CFS	AV. INFLOW CFS	GATE SETTINGS FT.
					OUT-LETS CFS	DOWNSTREAM G. HT. FT.	FLOW CFS		ACRE- FEET	CFS			
PREVIOUS REPORT													
1													
2													
3													
4													
5													
6													
7													
8													
9													
10													
11													
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30													
31													
REMARKS								TOTAL					
								MEAN					