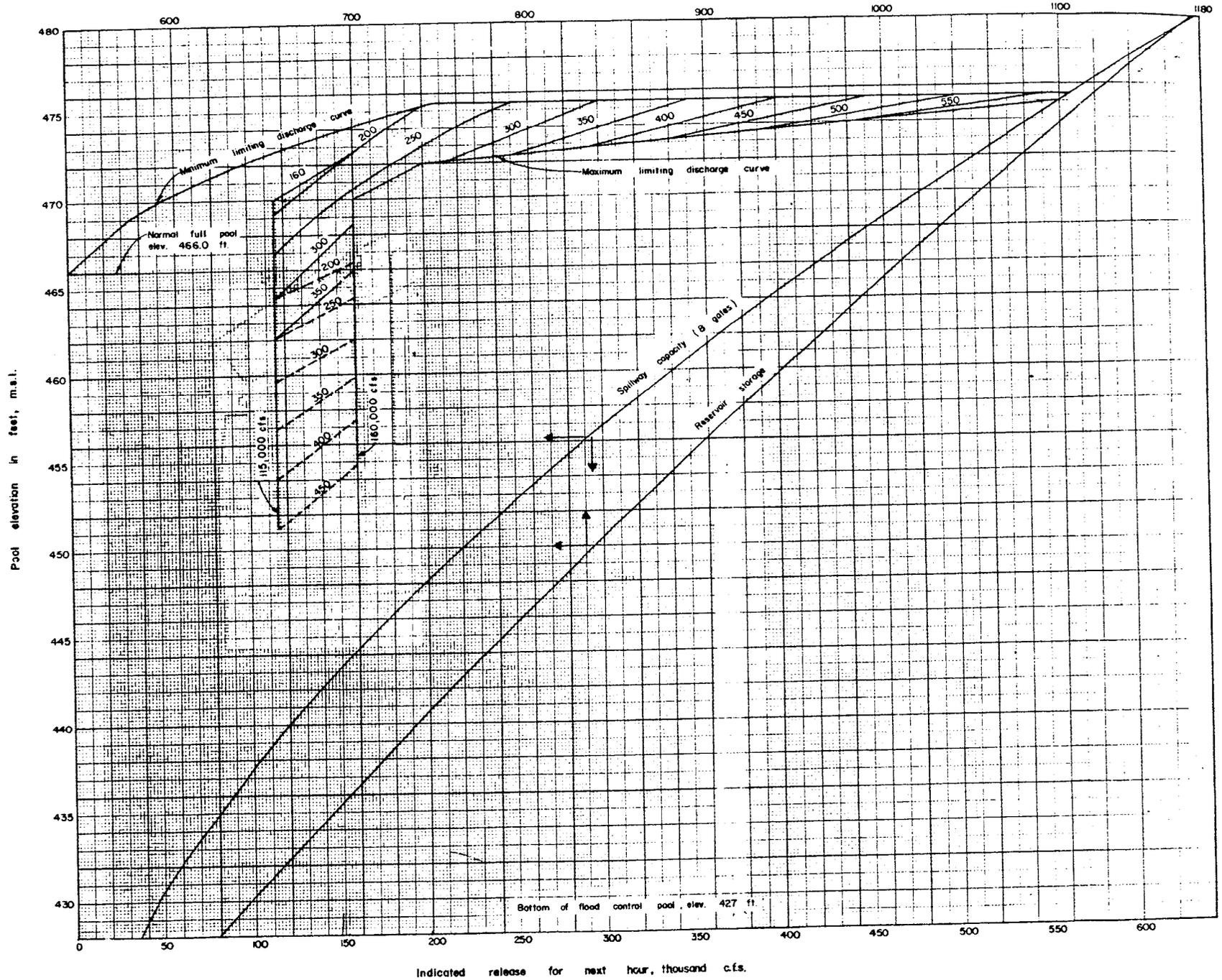


Storage in thousand acre-feet



EMERGENCY SPILLWAY RELEASE DIAGRAM

OPERATING INSTRUCTIONS

The following procedure should be initiated whenever water is stored above elevation 448 feet m.s.l. and flood control releases are required by the Flood Control Diagram.

- a. Compute preceding hours inflow in thousand c.f.s. This is the parameter value used to enter diagram.
- b. When the stage has not exceeded normal full pool (elev. 466 feet m.s.l.) determine if the inflow is increasing faster than 5,000 c.f.s. per hour. If the inflow is increasing faster than 5,000 c.f.s. per hour enter diagram from existing pool elevation. Find dashed line parameter value and read indicated release.
- c. When the stage is above normal full pool (elev. 466 feet m.s.l.) or the inflow is not increasing faster than 5,000 c.f.s. per hour enter diagram from existing pool elevation. Find solid line parameter value and read indicated release.
- d. Whenever the indicated release is greater than 115,000 c.f.s., such release will be accomplished in accordance with the release schedule shown below. Use flood control diagram to determine release of 115,000 c.f.s. or less.

Once releases based on this emergency spillway release diagram are initiated, gate changes shall be made in accordance with the criteria found herein, until the stage drops below elevation 448 feet m.s.l.

SCHEDULE FOR EMERGENCY SPILLWAY RELEASES

POOL ELEVATION	CONDITION	INDICATED RELEASE	ACTION
Less than elev. 448		0 to 115,000 c.f.s.	Follow F.C. Diagram
Elev. 448-470 rising pool	Downstream levees intact	115,000 to 160,000 c.f.s.	Increase outflows to indicated release at a rate of 15,000 c.f.s. per 2 hrs. Notify local authorities that evacuation of areas adjacent to downstream levees should be initiated. Do not reduce outflow while pool is rising.
Greater than elev. 470 rising pool	Downstream levees intact	Greater than 160,000 c.f.s.	Increase outflow to indicated release but not greater than 160,000 c.f.s. until 6 hrs. has elapsed since flows greater than 115,000 were initiated.
Greater than elev. 448 falling pool	Downstream levees intact	The lesser of 125% of inflow or maximum release during flood.	Make indicated release but do not reduce outflows below 115,000 c.f.s. until the reservoir pool has dropped below elev. 448.
Greater than elev. 448 falling pool	Downstream levees inoperative	The lesser of 125% of inflow or maximum release during flood.	Make indicated release but do not reduce outflows below 50,000 c.f.s. until the reservoir pool has dropped below elev. 448.

EXAMPLE OF DIAGRAM UTILIZATION

TIME	POOL ELEV	MEAN INFLOW LAST HOUR	INDICATED RELEASE	OUTFLOW NEXT HOUR
0800	458.0	320,000	F.C. Diagram	115,000 c.f.s.
0900	459.7	340,000	150,000	130,000
1000	461.4	350,000	160,000	130,000
1100	463.1	356,000	160,000	145,000
1200	464.4	351,000	142,000	145,000
1300	466.0	340,000	154,000	154,000
1400	467.2	325,000	158,000	158,000
1500	468.3	295,000	153,000	158,000
1600	469.1	260,000	144,000	158,000

**American River Project, California
Limited Reevaluation Report
Folsom Modification Project**

**FOLSOM DAM AND RESERVOIR
EXISTING EMERGENCY SPILLWAY
RELEASE DIAGRAM**

Sacramento District, Corps Of Engineers

August 2001