

STANDARD OPERATING PROCEDURE (SOP)
FLOOD CONTROL REGULATION
FRANKLIN FALLS DAM AND RESERVOIR

PHASE	ANTECEDENT CONDITIONS		FRANKLIN FALLS RESERVOIR	RIVER INDEX STATIONS (STAGE IN FEET)		REGULATION INSTRUCTIONS	DUTIES DURING EACH PHASE
	RAINFALL	WATER CONTENT OF SNOW		PEMIGEWASSET RIVER AT PLYMOUTH (622 SQ MI.)	MERRIMACK RIVER AT		
			RISING POOL ELEVATION (FEET NGVD)	FRANKLIN JUNCTION (1,507 SQ MI)	CONCORD (2,385 SQ MI)	GATE SETTINGS	
I-APPRAISAL ALERT	1.5"		315	4.4 (4,700 CFS)	10.0 (10,350 CFS)	10.0 (18,000 CFS)	NORMAL SETTING ALL 8 GATES AT 10 FEET
INITIAL REGULATION	2.5" OR 2.0"		320	8.0 (10,500 CFS)	12.5 (15,000 CFS)	12.0 (24,000 CFS)	REGULATE FOR 12,000 CFS RELEASE (OR AS INSTRUCTED)
II-CONTINUATION OF REGULATION	3.5" OR 3.0"		330	13.0 (21,000 CFS)	RISING	RISING	REGULATE FOR 15,000 CFS RELEASE (OR AS INSTRUCTED)
	4.0" OR 5.0"		340	17.0 (30,000 CFS)	RISING	RISING	REGULATE FOR 18,000 CFS RELEASE (OR AS INSTRUCTED)
III-EMPTYING THE RESERVOIR	STORM HAS ABATED		----	THE NORMAL MAXIMUM RELEASE RATE AT FRANKLIN FALLS IS 18,000 CFS.			

EMERGENCY OPERATION PROCEDURE (EOP) DURING COMMUNICATION FAILURE WITH RRT

IN THE EVENT OF A COMMUNICATION FAILURE WITH RRT, THE PROJECT MANAGER WILL REGULATE FOR AN OUTFLOW NOT TO EXCEED 16,000 CFS.

REFER TO SECTION VII

- NOTES:**
- Emptying the reservoir shall not be initiated until contact has been established with RRT.
 - Rate of increase of discharge should not exceed 2,000 CFS per hour. Personnel at downstream Eastman Falls Dam will be notified of any change in outflow.
 - Maximum rate of reservoir drawdown should not exceed 15 feet in 24 hours.
 - Refer to Table A-2 for road closures.
 - Refer to section A-05 for snowmelt regulation.
 - Refer to section A-05 for ice jam flooding.
 - Refer to section A-05 for regulation during spillway discharge.

- FLOOD CONTROL PROJECT MANAGER**
- PHASE I**
1. Collect and report rainfall and stage data to RRT.
2. Operate according to instructions from RRT.
- PHASE II**
1. Operate according to instructions from RRT.
2. Note any unusual conditions at dam, in downstream channels or at index stations.
- PHASE III**
1. Check downstream channel and damage areas.
2. Report to RRT for further instructions.

- PROJECT REGULATOR**
- PHASE I**
1. Compile data.
2. Plan and coordinate next instruction to Project Manager.
3. Increase outflow to a minimum of 12,000 cfs.
- PHASE II**
1. Continue regulation instructions to Project Manager.
2. Increase outflows to 18,000 CFS and vary between 12,000 CFS and 18,000 CFS as the mainstem of the Merrimack responds.
- PHASE III**
1. Collect data from Project Manager.
2. Check downstream conditions for allowable releases.
3. Continue regulation instructions to Project Manager.

