STANDARD OPERATING PROCEDURE (SOP)
FLOOD CONTROL REGULATION
EAST BRIMFIELD LAKE AND WESTVILLE LAKE

PHASE	24-HOUR RAINFALL ON		RISING POOL STAGE (FEET)		RIVER INDEX STATIONS (STAGE)	REGULATION INSTRUCTIONS	
	SNOW COVERED, WET OR FROZEN GROUND	DRY GROUND	EAST BRIMFIELD	WESTVILLE	QUINEBAUG RIVER	GATE SETTINGS	
					AMERICAN OPTICAL DAM 126 SQ MI	EAST BRIMFIELD	WESTVILLE
I-APPRAISAL							
FIRST ALERT	1.0″	1.0″	14.0	12.0	----	NORMAL SETTINGS	
SECOND ALERT	1.5″	2.0″	15.0	15.0	As Instructed	1′-1′	0-F-0.1′
INITIAL REGULATION	2.0″ (Or as instructed)	3.0″	16.0 (Or as instructed)	17.0	8″	RESTRICT OUTFLOW 0-1′	0-2′-0.1′
II-CONTINUATION OF REGULATION	3.0″ (Or as instructed)	4.0″	As instructed		10″	RESTRICT OUTFLOW TO MINIMUM (35 CFS) 0-0.3′	(50 CFS) 0-0.5′-0
III-EMPTYING THE RESERVOIR	STORM HAS ABATED		**THE NORMAL MAXIMUM RELEASE RATES ARE AS FOLLOWS: EAST BRIMFIELD LAKE ------ 900 CFS (750 during growing season) WESTVILLE LAKE --------- 1,600 CFS**				

EMERGENCY OPERATION PROCEDURE (EOP) DURING COMMUNICATION FAILURE WITH RRT

Gate operation for the following conditions:

	Partial closure	Minimum Opening
EAST BRIMFIELD WESTVILLE	(0-1′) (0-2′-0.1′)	(0-0.3′) (0-0.5′-0)
Rainfall 24-hour	2.0″	3.0″
RISING STAGES		
American Optical Dam W/ flood gates open	6″	8″

NOTES:

1. Emptying the reservoir shall not be initiated until contact has been established with RRT.
2. Rate of increase of discharge should not exceed 200 CFS per hour to 600 CFS, then 100 CFS per hour to 900 CFS at East Brimfield Lake. The rate of discharge at Westville Lake shall not exceed 200 CFS per hour up to 900 CFS, then 100 CFS per hour to 1,600 CFS.
3. Maximum rate of reservoir drawdown should not exceed 3 feet in 24 hours at East Brimfield and 5 feet in 24 hours at Westville Lake.
4. Refer to Plates C-4 and C-5 for road closures.
5. Refer to section C-05 paragraph (e) for snowmelt regulation.
6. Refer to section C-05 paragraph (f) for ice jam flooding.
7. Refer to section C-05 for regulation during spillway discharge.

DUTIES DURING EACH PHASE

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 instructions to Project Manager.
3. Restrict outflow to maintain safe channel capacity in the Quinebaug River.

PHASE II
1. Continue regulation instructions to Project Manager.

PHASE III
1. Collect data from Project Manager.
2. Check downstream conditions for allowable releases.
3. Continue regulation instructions to Project Manager.