

STANDARD OPERATING PROCEDURE (SOP)
FLOOD CONTROL REGULATION
WEST HILL DAM

PHASE	24-HOUR RAINFALL ON		WEST HILL DAM RISING POOL STAGE (FEET)	RIVER INDEX STATIONS (STAGE IN FEET)		REGULATION INSTRUCTIONS	DUTIES DURING EACH PHASE	
	SNOW COVERED, WET OR FROZEN GROUND	DRY GROUND		BLACKSTONE RIVER		GATE SETTINGS		
				NORTHBRIDGE 139 SQ MI	WOONSOCKET 416 SQ MI			
I-APPRAISAL FIRST ALERT	1.0"	1.0"	5.0	5.8	7.0	NORMAL SETTING	FLOOD CONTROL PROJECT MANAGER PHASE I 1. Collect and report rainfall and stage data to RCC. 2. Operate according to instructions from RCC. PHASE II 1. Operate according to instructions from RCC. 2. Note and report to RCC any unusual conditions at dam, in downstream channels or at index stations. PHASE III 1. Check downstream channel and damage areas. 2. Report to RCC for further instructions.	
SECOND ALERT	1.5"	2.0" (Or as instructed)	As instructed	(1,100 CFS)	(4,400 CFS)	2-2-2'		
INITIAL REGULATION	2.0"	3.0" (Or as instructed)	8.0 (Or as instructed)	7.0 (1,780 CFS)	7.5 (4,940 CFS)	RESTRICT OUTFLOW 1-0-1'		
II-CONTINUATION OF REGULATION	3.0"	4.0" (Or as instructed)	As instructed	8.0 (2,400 CFS)	8.0 (5,500 CFS)	RESTRICT OUTFLOW TO MINIMUM (25 CFS) 0-0-0.5'		
III-EMPTYING THE RESERVOIR	STORM HAS ABATED		THE NORMAL MAXIMUM RELEASE RATE AT WEST HILL DAM IS 425 CFS.					
EMERGENCY OPERATION PROCEDURE (EOP) DURING COMMUNICATION FAILURE WITH RCC			NOTES:					
Gate operation for the following conditions:			1. Emptying the reservoir shall not be initiated until contact has been established with RCC. 2. Rate of increase of discharge should not exceed 100 CFS per hour to 300 CFS then 25 CFS per hour to 425 CFS 3. Maximum rate of reservoir drawdown at West Hill Dam should not exceed 5 feet in 24 hours 4. Refer to section A-04-f and Plate A-7 for road closures. 5. Refer to section A-04-g for snowmelt regulation. 6. Refer to section A-03-c for operations during freezing season. 7. Refer to section A-04-e for regulation during spillway discharge. 8. Maximum Non-Damaging Channel Capacities at river index stations: West River at Rt. 16 near Uxbridge: 6.8 feet = 425 CFS Blackstone River at Woonsocket: 9.0 feet = 6,670 CFS					
Partial closure (1'-0-1')			Minimum Opening (0-0-0.5')					
Rainfall 24-hour	2.0"	3.0"						
RISING STAGES								
Northbridge	6.0'	7.0'						
Woonsocket	7.0'	7.5'						
West Hill Reservoir	7.0'	8.0'						
			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.					

