

STANDARD OPERATING PROCEDURE (SOP)

FLOOD CONTROL REGULATION

THOMASTON, BLACK ROCK, AND HOP BROOK DAMS

PHASE	24-Hour Rainfall ON		RISING POOL STAGE (FEET)			RISING RIVER INDEX STATIONS (STAGE IN FEET)			REGULATION INSTRUCTIONS			DUTIES DURING EACH PHASE
	SNOW COVERED, WET, OR FROZEN GROUND	DRY GROUND	THOMASTON DAM	BLACK ROCK DAM	HOP BROOK DAM	NAUGATUCK RIVER		HOUSATONIC RIVER	GATE SETTINGS			
						WATERBURY 174 sq.mi.	BEACON FALLS 260 sq.mi.	STEVENSON 1,545 sq. mi.	THOMASTON DAM	BLACK ROCK DAM	HOP BROOK DAM	
I-APPRAISAL ALERT	1.0"	1.0"	20.0	29.0	21.0	9.0 1,200 cfs	6.0 2,860 cfs	10.0 11,200 cfs	3'- 3' (NORMAL)	3'- 0' (NORMAL)	0'- 3' (NORMAL)	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.
INITIAL REGULATION	1.5"	2.0"	22.0	31.0	23.0	10.0 1,935 cfs	7.0 4,120 cfs	11.0 13,670 cfs	1'-1'	1'-0'	0-1'	
II-CONTINUATION OF REGULATION	2.0"	3.0"	---AS INSTRUCTED BY RRT --			12.0 3,955 cfs	9.5 7,800 cfs	14.0 23,350 cfs	RESTRICT OUTFLOW TO MINIMUM			
	OR								50 CFS	20 CFS	20 CFS	
III-EMPTYING THE RESERVOIR	STORM HAS ABATED		THE NORMAL MAXIMUM RELEASE RATES ARE AS FOLLOWS:									

EMERGENCY OPERATION PROCEDURE (EOP) DURING COMMUNICATION FAILURE WITH RRT

Go to Gate Settings/Releases as follows:

	Partial Closure	Minimum Release
Thomaston	1'-1'	50 cfs
Black Rock	1'-0'	20 cfs
Hop Brook	0'-1'	20 cfs

For the following Conditions:

24-Hour Rainfall	2.0"	3.0"
Rising Stage at Waterbury	9.0'	11.0'
Rising Stage at Beacon Falls	6.0'	8.0'
Rising Stage at Stevenson	10.0'	13.0'

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:
 - a. **Thomaston Dam:** 500 cfs/hr up to 3,000 cfs; then 200 cfs/hr
 - b. **Black Rock Dam:** 200 cfs/hr up to 600 cfs; then 100 cfs/hr
 - c. **Hop Brook Dam:** 100 cfs/hr up to 400 cfs; then 50 cfs/hr
3. Maximum rate of reservoir drawdown per 24-hours should not exceed:

Thomaston Dam and Black Rock Dams	10 feet
Hop Brook Dam	5 feet.
4. Refer to Plates A-4a, A-5a, and A-6a for road closures.
5. Refer to section A-08 for snowmelt regulation.
6. Refer to section A-09 for ice jam flooding.
7. Refer to section A-06 for regulation during spillway discharge.
8. Maximum Non-Damaging Channel Capacities at Controlled River Index Stations:

Waterbury: 12.8 ft, 5,200 cfs
Beacon Falls: 10.7 ft, 10,000 cfs

PROJECT REGULATOR

- PHASE I**
1. Compile data.
 2. Plan and coordinate next instruction to Project Manager.
 3. Restrict outflow to maintain safe downstream channel capacities.
- PHASE II**
- 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.

