

**STANDARD OPERATING PROCEDURE (SOP)
FLOOD CONTROL REGULATION
BIRCH HILL DAM AND TULLY LAKE DAM**

PHASE	24-HOUR RAINFALL ON		RISING POOL STAGE (FEET)		RIVER INDEX STATIONS (STAGE IN FEET)			REGULATION INSTRUCTIONS		DUTIES DURING EACH PHASE
	SNOW COVERED WET OR FROZEN GROUND	DRY GROUND	BIRCH HILL DAM	TULLY LAKE DAM	MILLERS RIVER	CONNECTICUT RIVER		GATE SETTINGS		
I-INITIAL REGULATION	2.0" OR AS INSTRUCTED	3.0"	AS INSTRUCTED		2.0	26.0	18.0	DISCHARGE REDUCED AS PER RCC		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.
II-CONTINUATION OF REGULATION	3.0" OR AS INSTRUCTED	4.0"	AS INSTRUCTED		3.0	30.0	20.0	RESTRICT OUTFLOW TO MINIMUM RELEASES 90 CFS 25 CFS		
III-EMPTYING THE RESERVOIR	STORM HAS ABATED		APPROXIMATE NON-DAMAGING DOWNSTREAM CAPACITY: BIRCH HILL DAM 2,800 CFS TULLY LAKE DAM 825 CFS							

EMERGENCY OPERATION PROCEDURE (EOP) DURING COMMUNICATION FAILURE WITH RRT

Go to Gate Settings/Releases as follows for the following conditions:

24 Hour Rainfall	Minimum Release (CFS)		
		Tully	Birch Hill
Wet Ground	2.0"	25	90
Dry Ground	3.0"	25	90

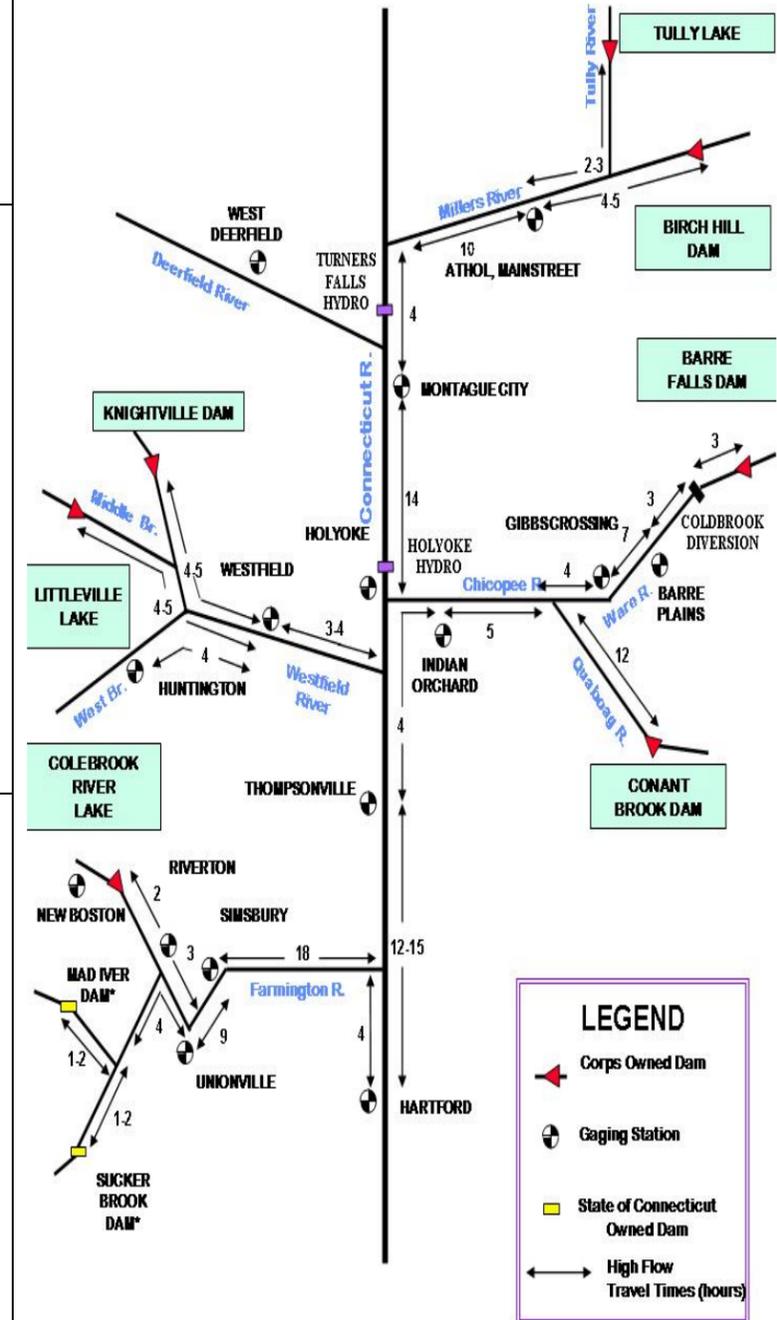
Rising Stage at

Main St. Athol	3.0'	25	90
Montague City	26.0'	25	90

NOTES:

- All gate settings and alert conditions are subject to change by RRT.
- Emptying the reservoir shall not be initiated until contact has been established with RRT.
- Rate of increase in reservoir discharge shall not exceed the following:
 BIRCH HILL = 500 cfs/hr up to 2,000 cfs, then 200 cfs/hr
 TULLY LAKE = 200 cfs/hr up to 600 cfs, then 50 cfs/hr
- Maximum rate of reservoir drawdown shall not exceed 5 feet in 24 hours at both Birch Hill Dam and Tully Lake Dam.
- Reservoir roads within Birch Hill shall be barricaded when rising pool is expected to exceed 11, 24 and 37 ft. Barricade locations shown on Plates F-55 (a-c).
- Reservoir roads within Tully Lake shall be barricaded when rising pool is expected to exceed 22 ft. Barricade locations shown on Plates F-55 (a-c).
- Regulation for snowmelt will be based on maintaining releases consistent with full downstream channel capacities.
- During spring runoff, regulations may vary dependant on potential ice jams at various locations on the Millers River.
- Maximum non-damaging channel capacities at index stations are as follows:
 MILLERS RIVER AT ATHOL 3.3 ft. = 3,155 cfs
 CONNECTICUT RIVER AT MONTAGUE CITY 30.0 ft = 89,500 cfs
 CONNECTICUT RIVER AT HARTFORD 22.0 ft = 112,500 cfs

Lower Connecticut River Basin



updated 01/00

LEGEND

- Corps Owned Dam
- Gaging Station
- State of Connecticut Owned Dam
- High Flow Travel Times (hours)