

**STANDARD OPERATING PROCEDURE (SOP)**  
**FLOOD CONTROL REGULATION**  
**NORTH HARTLAND DAM AND RESERVOIR**

PHASE	24-HOUR RAINFALL ON		NORTH HARTLAND RESERVOIR	RIVER INDEX STATIONS (STAGE IN FEET)				REGULATION INSTRUCTIONS	DUTIES DURING EACH PHASE	
	SNOW COVERED, WET OR FROZEN GROUND	DRY GROUND		WHITE RIVER AT WEST HARTFORD 690 SQ MI	CONNECTICUT RIVER AT					
					WELLS RIVER 2,644 SQ MI	WEST LEBANON 4,092 SQ MI	NORTH WALPOLE 5,493 SQ MI			MONTAGUE CITY 7,865 SQ MI
<b>I-APPRAISAL FIRST ALERT</b>	1.0"	1.0"	40'					<b>NORMAL SETTING</b> (Position 1 on Override Control Panel)	<b>FLOOD CONTROL PROJECT MANAGER</b>  <b>PHASE I</b> 1. Collect and report rainfall and stage data to RRT. 2. Operate according to instructions from RRT.  <b>PHASE II</b> 1. Operate according to instructions from RRT. 2. Note any unusual conditions at dam, in downstream channels or at index stations.  <b>PHASE III</b> 1. Check downstream channel and damage areas. 2. Report to RRT for further instructions.	
<b>SECOND ALERT</b>	1.5"	2.0" (Or as instructed)	45' (Or as instructed)	10.0'	7.5'	14.0'	24.0'			---
<b>INITIAL REGULATION</b>	2.0"	3.0" (Or as instructed)	As instructed	10.0'	7.5'	14.0'	24.0'			---
<b>II-CONTINUATION OF REGULATION</b>	3.0"	4.0" (Or as instructed)	As instructed	---	10.0'	17.0'	26.0'			26.0'
<b>III-EMPTYING THE RESERVOIR</b>	STORM HAS ABATED		<b>THE NORMAL MAXIMUM RELEASE RATE FROM NORTH HARTLAND DAM IS 6,000 CFS.</b>						<b>PROJECT REGULATOR</b>  <b>PHASE I</b> 1. Compile data. 2. Plan and coordinate next instructions to Project Manager. 3. Restrict outflow to maintain safe downstream channel capacities.  <b>PHASE II</b> 1. Continue regulation instructions to Project Manager.  <b>PHASE III</b> 1. Collect data from Project Manager. 2. Check downstream conditions for allowable releases. 3. Continue regulation instructions to Project Manager.	

**EMERGENCY OPERATION PROCEDURE (During Communication Failure With RRT)**

Go to minimum outflow as specified in the Outflow Guidance for the following conditions:

24-hour Rainfall	3.0"
West Hartford Stage	10.0' and rising
West Lebanon Stage	17.0' and rising
North Walpole Stage	26.0' and rising

- NOTES:**
- Emptying the reservoir shall not be initiated until contact has been established with RRT.
  - Ramping of reservoir outflows should be in accordance with outflow guidance.
  - Maximum rate of reservoir drawdown should not exceed 10 feet in 24 hours
  - Deweys Mills Road will be inundated at a stage of 140 feet. Local officials will be notified when barricades are required (see paragraph 24b)
  - Non damaging channel capacities for the above river index stations are as follows:
 

White River @ West Hartford:	18.0 ft
Connecticut River @ Wells River:	13.0 ft
Connecticut River @ West Lebanon:	22.0 ft
Connecticut River @ North Walpole:	30.0 ft
Connecticut River @ Montague City:	30.0 ft
  - The dike sluice gate should be closed when the reservoir level approaches 130 feet

