STANDARD OPERATING PROCEDURE (SOP)
FLOOD CONTROL REGULATION
UNION VILLAGE DAM AND RESERVOIR

PHASE	24-HOUR RAINFALL ON: SNOW COVERED, WET OR FROZEN GROUND	24-HOUR RAINFALL ON: DRY GROUND	UNION VILLAGE RESERVOIR: RISING POOL ELEVATION (FEET, NGVD)	RIVER INDEX STATIONS (STAGE IN FEET): WHITE RIVER AT WEST HARTFORD 690 SQ MI	CONNECTICUT RIVER AT: WELLS RIVER 2,644 SQ MI	CONNECTICUT RIVER AT: WEST LEBANON 4,092 SQ MI	CONNECTICUT RIVER AT: NORTH WALPOLE 5,493 SQ MI	CONNECTICUT RIVER AT: MONTAGUE CITY 7,865 SQ MI	REGULATION INSTRUCTIONS: GATE SETTINGS
I-APPRAISAL FIRST ALERT	1.0″	1.0″	Summer 10′ Winter 25′	10.0′	7.5′	14.0′	24.0′	25.0′	**NORMAL GATE SETTING**
INITIAL REGULATION	2.0″ (Or as instructed)	3.0″	---	10.0′	7.5′	14.0′	24.0′	25.0′	---
II-CONTINUATION OF REGULATION	3.0″ (Or as instructed)	4.0″	---	---	10.0′	17.0′	26.0′	25.0′	**Minimum outflow as specified in the Outflow Guidance**
III-EMPTYING THE RESERVOIR	STORM HAS ABATED		**THE NORMAL MAXIMUM RELEASE RATE FROM UNION VILLAGE DAM IS 2,400 CFS.**						

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″
Wells River Stage	10.0′ and rising
West Lebanon Stage	17.0′ and rising
North Walpole Stage	26.0′ and rising
Montague City Stage	25.0′ and rising

NOTES:

1. Emptying the reservoir shall not be initiated until contact has been established with RRT.
2. Ramping of reservoir outflows should be in accordance with outflow guidance.
3. Maximum rate of reservoir drawdown should not exceed 15 feet in 24 hours.
4. Non damaging channel capacities for the above river index stations are as follows:

White River @ West Hartford:	18.0′
Connecticut River @ Wells River:.	13.0′
Connecticut River @ West Lebanon:	22.0′
Connecticut River @ North Walpole:	30.0′
Connecticut River @ Montague City:	30.0′

5. Close the barriers on the east access road when the reservoir stage is expected to rise above 35.0′.
6. Close the barriers on the west access road when the reservoir stage is expected to rise above 64.0′.

DUTIES DURING EACH PHASE

FLOOD CONTROL PROJECT MANAGER

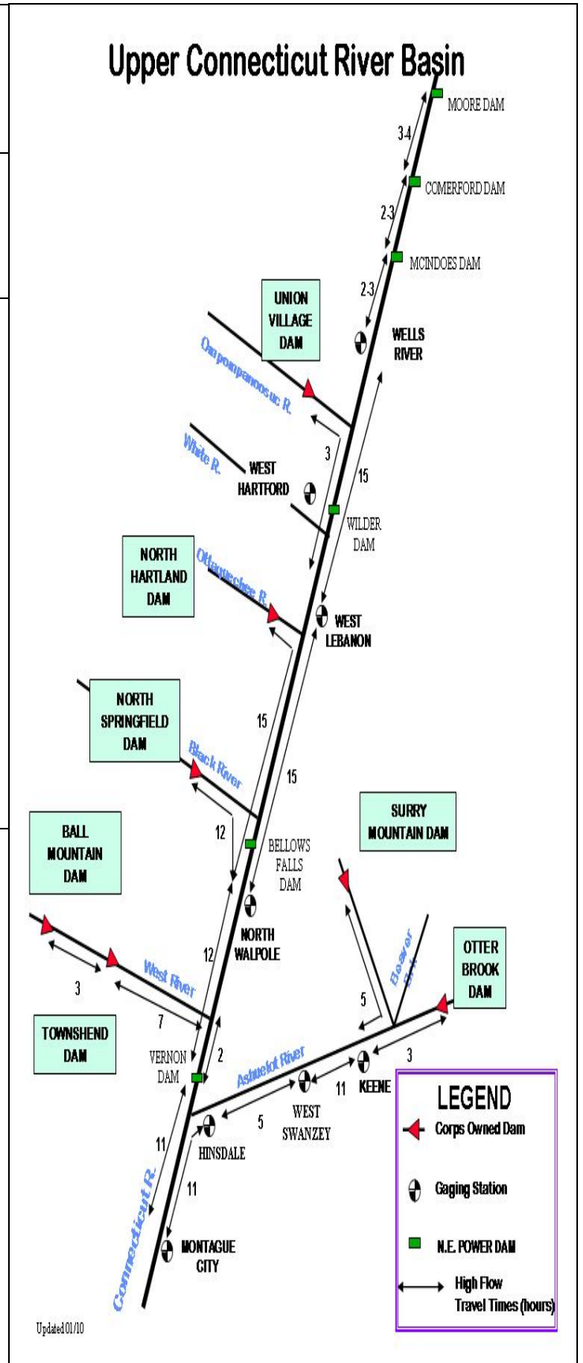
PHASE I
1. Collect and report rainfall and stage data to RRT.
2. Operate according to instructions from RRT.

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 downstream channel capacities.

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.