

ORIGINAL

Northern States Power Company

NSP

FILED OF THE SECRETARY

99 FEB 22 PM 4: 14

February 17, 1999

FEDERAL ENERGY REGULATORY COMMISSION 100 North Barstow Street P.O. Box 8 Eau Claire, WI 54702-0008 Telephone (800) 895-4999

The Secretary
Federal Energy Regulatory Commission
888 First Street, N E
Washington, D. C. 20426

N

RE:

Big Falls Hydroelectric Project - FERC No. 2390 — 02-0 Thornapple Hydroelectric Project - FERC No. 2475 — 03-0 Results of 1998 Purple Loosestrife Monitoring Assessments

Dear Secretary:

Attached for filing are an original and eight copies of the results of the annual purple loosestrife monitoring assessments that were performed on licensee's Big Falls and Thornapple reservoirs during August 1998. This information is filed pursuant to license article 408 and article 410 for the respective projects. You will note that the attached monitoring results represent a consolidated report for five of licensee's hydro projects, as filed with regional agencies in accordance with compliance plan requirements. Even though information is presented for five projects, only the information for the Big Falls and Thornapple Projects is required to be reported to the Commission.

Licensee requests clarification of an inconsistency that we recently identified between the purple loosestrife monitoring plans that we filed and the FERC approval orders that were issued for articles 408 and 410 of the Big Falls and Thornapple Project licenses. The licensee's plans, that were approved by the Commission without modification, stipulate that annual monitoring results are to be filed with the Wisconsin Department of Natural Resources and the U.S. Fish & Wildlife Service. On the other hand, the Commission approval orders contain an added reporting requirement: that annual reports are to be filed with the Commission (as well as with the two agencies). It should be noted that Licensee has received FERC approval orders for three other purple loosestrife monitoring plans (as identified in the attached report) that are nearly identical to those for the Thornapple and Big Falls Projects, and none of those orders include a requirement for filing annual reports with the FERC. This makes licensee question whether the annual reporting provision for the Thornapple and Big Falls Projects was inadvertently added to the orders. Licensee requests that this matter be reviewed, and if appropriate, that the requirement for filing annual

99022402673

FERC DOCKETED

FEB 2 2 1999

M

The Secretary, FERC February 17, 1999 Page 2

reports with the FERC be deleted from the approval orders for the subject purple loosestrife monitoring plans. In licensee's view, the present filing requirements are duplicative and unnecessary.

Should there be any questions about this filing, please direct them to me at 715/839-2692.

Very truly yours,

Lloyd Everhart, Administrator

Hydro Licensing

c: Diane Murray, FERC (FAX)

h:\word6\02179let.doc





OFFICE OF THE SECRETARY

99 FEB 22 PM 4: 15

FEDERAL ENERGY REGULATORY COMMISSION

August 31, 1998

Jeff Scheirer Wisconsin DNR 875 South Fourth Ave.

P.O. Box 220

Park Falls, WI 54552

Jim Fossum
Department of the Interior
U.S. Fish and Wildlife Service
1015 Challenger Court
Green Bay, WI 54301

Angie Tornes
Department of the Interior
National Park Service
310 W. Wisconsin Ave., Rm. 500
Milwaukee, WI 53202

SUBJECT:

REPORT FOR PURPLE LOOSESTRIFE ASSESSMENTS ON WHITE RIVER FLOWAGE (FERC PROJECT NO. 2444), SUPERIOR FALLS FLOWAGE (FERC PROJECT NO. 2587), BIG FALLS FLOWAGE (FERC PROJECT NO. 2390), THORNAPPLE FLOWAGE (FERC PROJECT NO. 2475), AND HAYWARD FLOWAGE (FERC PROJECT NO. 2417).

Dear Jeff, Jim, and Angie:

Enclosed is a copy of the report for the purple loosestrife assessments performed on the above listed flowages. If you have any questions or need additional copies of the report, please feel free to contact me at (715) 839-1436 or Rob Olson at (715) 839-1353.

Sincerely,

Christopher J. Turner

Environmental Technician

cc:

Rob Olson (NSPW)

Northern States Power Company

100 North Barstow Street P.O. Box 8 Eau Claire, WI 54702-0008 Telephone (800) 895-4999 PURPLE LOOSESTRIFE ASSESSMENT FOR WHITE RIVER FLOWAGE (FERC PROJECT NO. 2444), SUPERIOR FALLS FLOWAGE (FERC PROJECT NO. 2587), BIG FALLS FLOWAGE (FERC PROJECT NO. 2390), THORNAPPLE FLOWAGE (FERC PROJECT NO. 2475) AND HAYWARD FLOWAGE (FERC PROJECT NO. 2417)

Introduction

The operating license for White River, Superior Falls, Big Falls, Thornapple and Hayward Hydro Projects directed the Licensee to develop a purple loosestrife monitoring plan for project shorelines. The plans were developed with input from the Wisconsin Department of Natural Resources (WDNR), the U.S. Fish and Wildlife Service (USFWS) and the National Park Service (NPS). The monitoring plan involved annual monitoring of project shorelines during a period of peak purple loosestrife biomass (late July through August). The following report is a summary of the surveys that were done during the 1998 field season.

Methods

The shorelines of the White River Flowage, Superior Falls Flowage, Big Falls Flowage, Thomapple Flowage and Hayward Flowage were surveyed on August 8, 9 and 27, 1998 for the presence of purple loosestrife (*Lythrum salicaria*). The project lands downstream from the Hayward Hydro Project were also surveyed. Project shorelines were rated to indicate whether purple loosestrife was absent, present or abundant. Present indicated a light scattering of a few plants over an area. Abundant indicated a dense growth of numerous plants over an area. Absent indicated that no purple loosestrife plants were present. Using these grades of infestation, purple loosestrife locations were mapped on bathymetric maps of the flowages.

Results

White River Flowage

Purple loosestrife was not found on the shoreline of the White River Flowage.

Superior Falls Flowage

Purple loosestrife was not found on the shoreline of the Superior Falls Flowage.

Big Falls Flowage

Purple loosestrife was not found on the shoreline of the Big Falls Flowage.

Thornapple Flowage

A number of purple loosestrife plants were found to be growing on the shores of the Thornapple Flowage (see Figure 1). The majority of plants appear largely concentrated in a few select areas. Other areas around the flowage where plants are located contain only a few individuals

Hayward Flowage

Numerous purple loosestrife plants were found on the Hayward Flowage. Several stretches of shoreline were found to have large, very dense populations (See Figure 2).

An initial survey of purple loosestrife in this area was completed in August, 1997. This survey estimated that, of the 8.64 total miles of shoreline, 0.3 miles (3.5%) were classified as present and 0.7 miles (8.1%) were classified as abundant. Upon comparison of the previous survey, it would appear that little change in the purple loosestrife infestation has taken place in the last year.

The main areas of purple loosestrife infestation on the Hayward Flowage are concentrated in the northwest section of the flowage at the mouth of Smith Lake Creek. Though this survey does not provide any direct evidence, it is highly possible that the source of the purple loosestrife is located somewhere upstream on Smith Lake Creek, not farther up the Namekagon River.

Project lands on the Namekagon River downstream from the Hayward Dam were found to contain three isolated populations of purple loosestrife. These were located immediately downstream from the spillway and powerhouse. Each of these populations appear to be slightly larger than was observed in the previous year's survey.

CONCLUSION

Purple loosestrife was not found to be present at the White River Flowage, Superior Falls Flowage or the Big Falls Flowage. The Thornapple Flowage has a fair amount of purple loosestrife plants, largely concentrated in a few areas. The Hayward Flowage has large populations of purple loosestrife, including some areas where the plant is by far the dominant species. Populations in both the Thornapple Flowage and the Hayward Flowage are large enough that they are certain to continue to spread to other portions of the lakes as well as to areas downstream from the flowages.

The Thornapple Flowage and Hayward Flowage may be good candidates for the implementation of some form of biological control measure to contain the purple loosestrife infestations. Biological controls such as the introduction of beetles and weevils are being tested at numerous sites throughout the state of Wisconsin and are proving to be effective in many of those areas. The Licensee

would like to obtain feedback from the resource agencies about whether or not they would be willing to pursue biological control options on either the Thornapple Flowage or the Hayward Flowage.

LAKE	Thornapple Flow
	18, 19, 22, 23, 24
RANGE	
	Thornapple
TOWNSLID	

This is the only hydrographic map of t produced from original charts of Dej sources — Madison

A U.S. Geological Survey Map is avail ing the area (approx. 12 square miles) a

Thornapple To order specify _

FIGURE 1 PURPLE LOOSESTRIFE ASSESSMENT

THORNAPPLE FLOWAGE 8/22/98

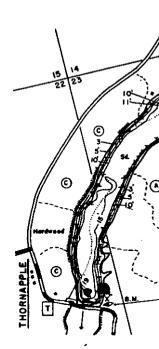
PRESENT PRESENT **ABUNDANT**





TOPOGRAPHIC SYMBOLS BRUSH REFUGE _____ SAPILING TANGLE______ SPAWNING BOX_____ == MINNOW SPAWNER______* WEED BED______ @ ROCKY SHOAL_____ DWELLING..... ABANDONED DWELLING______ RESORT______ STEEP SLOPE_____ = = = SPRING_____O--INTERMITTENT INLET____ BRUSH______ WOODED_____ PASTURED_____ CULTIVATED_____ ENCROACH. SHORE.____ /---PERMANENT INLET____ PERMANENT OUTLET____ MARSH_____ PARTIALLY WOODED_____ CLEARED_____ BENCH MARK______ LAKE BOTTOM SYMBOLS PULPY PEAT____P MUCK_____K CLAY_____C SAND..._S RUBBLE____R EMERGENT VaGET_____ FIBROUS PEAT____F DETRITUS_____D MARL _____M GRAVEL____G BEDROCK____Br. SUBMERGENT VEGET ____T





lake <mark>available,</mark> of Natural Re-

e from us showcent to this lake. RUSK COUNTY

MAP NO.

5129

Country of the state of the sta

TRASH ROCKS.
ASSUMED ELEV. 70.81

WATER ELEV. 66.61 NORMAL LEVEL 67.76

Power Dom 13 bood

Traver Dom 15 Hees

© HHHHH ◆ACCESS

ACEESS WITH PARKING

SOAT LIVE

AREA 260.2 ACRE

0

(

MAX DEPTH 19 FEFT

UNDER 3' 19.4% OVER 20' 0%

CLARKSON MAP CO.

724 DESNOYER STREET Kaukauna, Wisconsin 54130

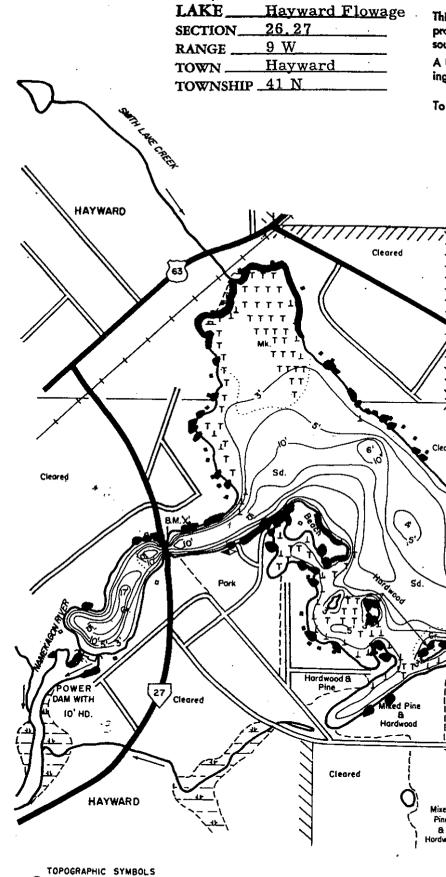
FIGURE 2

PURPLE LOOSESTRIFE **ASSESSMENT HAYWARD FLOWAGE** 8/8/98

PRESENT ABUNDANT

PROPERTY AND AND ADMINISTRATION OF THE PARTY OF THE PARTY





Brush

IIIIII Steep slope

W Partially wooded _____ Indefinite shoreline
W Waaded _____ Marsh Marsh

© Cleared

◆ Spring

P. Peat Mk,Muck

LAKE BOTTOM SYMBOLS Gr. Gravel R. Rubble

Paŝtured (A) Agricultural 8.M. Bench Mark

........... Intermittent stream Permanent inlet Permanent outlet

C. Clay M, Marl Br. Bedrock T Submergent vegetation

Sd. Sand St. Silt **Dwelling ♣** pom Resort

1 Emergent vegetation A Floating vegetation

