



Wisconsin Electric
A WISCONSIN ENERGY COMPANY

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REC'D
BY THE SECRETARY
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FEDERAL ENERGY
REGULATORY
COMMISSION

April 10, 2000

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

RE: Chalk Hill Hydroelectric Project- FERC No. 2394-~~009~~ 044
White Rapids Hydroelectric Project - FERC No. 2357-~~009~~ 043
Article 405 - Water Quality Monitoring Report

Dear Mr. Boergers:

Wisconsin Electric is hereby filing one original and eight additional copies of the following data:

- Flowage water quality monitoring for the Chalk Hill and White Rapids projects performed during the months of January, February, and March 2000

Article 405 - The water quality monitoring plan as approved by FERC order dated January 21, 1998- included the following component:

Flowage Monitoring Plan

- Measurements to be made at 1.0 meter intervals in the deepest part of each flowage;
- Measurements to be taken during December, January, February and March of each year monitored;
- Measurements are to be filed no later than May 1 of each year.

As the attached tables indicate, neither flowages exhibited any sags in DO levels during the entire winter. As you can see, there is no data for December 1999. Abnormally warm conditions in this region affected ice formation in each flowages. Company staff attempted measurements on December 15, and 21, 1999. Unstable ice conditions prohibited safe access to the locations in the impoundments where measurements were to be made.

Attached is a proof of service to the agencies listed on the copy list.

Please call me at (414) 221-2413 if you have questions regarding this matter.

Sincerely,

Bill Rauscher/jr
Bill Rauscher, Manager
Hydroelectric Operations Division

Attachments

- cc: Tom Thuesler, WDNR
Kurt Newman, MDNR
Jim Fossum, USFWS
James Grant, MDEQ
Peggy Harding, FERC- Chicago office

CJ
FERC DOCKET#
APR 18 2000

000-419-01163

Wisconsin Electric Power Company
 Chalk Hill winter 2000 Hydroelectric Project
 Vertical Profile Data - Winter 1999-2000

Vertical Profile was taken in the deepest available area of flowage, at the navigation warming buoy float line, near the dam.

Depth in meters	5-Jan-00					16-Feb-00					21-Mar-00				
	Approximate air temp: -9.4 C					Approximate air temp: -7.4 C					Approximate air temp: 5 C				
	Secchi Depth: 5.5 ft.		Time: 1200 noon			Secchi Depth: 4.0 ft.		Time: 1215			Secchi Depth: 5.5 ft.		Time: 1530		
	Temp. (C)	D.O. (mg/l)	D.O. %	pH (S.U.)	Cond. (uS/cm)	Temp. (C)	D.O. (mg/l)	D.O. %	pH (S.U.)	Cond. (uS/cm)	Temp. (C)	D.O. (mg/l)	D.O. %	pH (S.U.)	Cond. (uS/cm)
0.0	0.1	14.1	99.1	7.9	256	0.1	14.0	98.2	7.9	244	2.9	13.3	100.2	8.1	190.0
0.5	0.1	14.1	99.1	7.9	256	0.1	14.0	98.5	7.9	245	2.9	13.2	100.3	8.1	192.0
1.0	0.1	14.0	97.6	7.9	256	0.1	14.1	99.4	7.9	248	2.8	13.3	100.1	8.1	189.0
1.5	0.1	13.9	97.1	8.0	256	0.1	14.3	101.1	7.9	250	2.8	13.2	99.6	8.1	191.0
2.0	0.1	13.9	97.2	7.9	243	0.1	14.6	103.0	7.9	253	2.8	13.2	99.4	8.1	192.0
2.5	0.1	13.9	97.4	7.9	261	0.1	14.9	104.8	7.8	248	2.8	13.1	99.0	8.1	187.0
3.0	0.1	13.9	97.7	7.9	240	0.1	15.1	106.1	7.9	253	2.8	13.1	98.8	8.1	189.0
3.5	0.1	14.0	98.4	8.0	260	0.1	15.3	107.7	7.9	253	2.8	13.1	98.6	8.1	192.0
4.0	0.1	14.1	98.6	7.9	251	0.1	15.5	108.8	7.9	256	2.8	13.0	98.4	8.1	190.0
4.5	0.1	14.1	98.8	7.9	262	0.0	15.6	109.5	7.9	245	2.8	13.0	98.3	8.1	192.0
5.0	0.1	14.2	99.4	7.9	252	0.1	15.7	110.5	7.9	249	2.7	13.0	98.4	8.1	191.0
5.5	0.1	14.3	100.1	7.9	252	0.1	15.9	111.4	7.9	244	2.7	13.1	98.4	8.1	193.0
6.0	0.1	14.3	100.6	7.9	263	0.1	15.9	111.7	7.9	249	2.8	13.1	98.9	8.1	187.0
6.5	0.1	14.4	101.0	7.9	256	0.1	15.5	108.1	7.9	264	2.8	13.1	99.0	8.1	190.0
7.0	0.1	14.4	100.8	7.9	264	0.1	15.3	107.6	7.9	251	2.8	13.1	99.1	8.1	187.0
7.5	0.1	14.4	100.8	7.9	271	0.0	15.4	108.1	7.9	253	2.8	13.1	99.0	8.1	191.0
8.0	0.1	14.5	101.3	7.9	250	0.1	15.5	108.9	7.9	262	2.7	13.1	98.9	8.1	191.0
8.5	0.1	13.4	93.4	7.9	269	0.1	15.6	109.3	7.9	266	2.8	13.1	99.0	8.1	188.0
8.9	0.2	13.1	91.9	7.9	269	0.1	15.6	109.7	7.9	259	2.7	13.0	98.4	8.1	187.0

Wisconsin Electric Power Company
 White Rapids winter 2000 Hydroelectric Project
 Vertical Profile Data - Winter 1999-2000


Vertical Profile was taken in the deepest available area of flowage, at the navigation warming buoy float line, near the dam.

Depth in meters	5-Jan-00 Approximate air temp: -9.4 C Secchi Depth: 5.0 ft. Time:1100					16-Feb-00 Approximate air temp: -7.2 C Secchi Depth: 5.5 ft. Time:1100					21-Mar-00 Approximate air temp: 5 C Secchi Depth: 6.0 ft. Time:1417				
	Temp. (C)	D.O. (mg/l)	D.O. % Saturation	pH (S.U.)	Cond. (uS/cm)	Temp. (C)	D.O. (mg/l)	D.O. % Saturation	pH (S.U.)	Cond. (uS/cm)	Temp. (C)	D.O. (mg/l)	D.O. % Saturation	pH (S.U.)	Cond. (uS/cm)
0.0	0.2	14.1	98.9	7.2	261	0.1	13.6	95.1	7.5	254.0	2.8	13.3	100.5	8	190.0
0.5	0.2	14.1	98.9	7.2	261	0.2	14.3	99.8	7.7	250.0	2.8	13.3	100.1	8.1	191.0
1.0	0.2	13.7	96.2	7.4	261	0.1	14.3	100.4	7.7	249.0	2.7	13.3	100.4	8.1	190.0
1.5	0.2	13.6	95.3	7.4	262	0.2	14.3	101.2	7.8	248.0	2.8	13.3	100.0	8.1	191.0
2.0	0.2	13.6	95.5	7.5	259	0.2	14.8	104.2	7.8	246.0	2.8	13.3	100.2	8.1	190.0
2.5	0.2	13.6	95.5	7.5	255	0.1	14.9	104.3	7.9	247.0	2.7	13.3	99.8	8.1	189.0
3.0	0.2	13.6	95.5	7.6	264	0.1	14.8	103.9	7.9	255.0	2.7	13.2	99.3	8.1	191.0
3.5	0.2	13.6	95.2	7.6	264	0.1	14.8	104.0	7.9	251.0	2.7	13.2	99.3	8.2	190.0
4.0	0.1	13.6	95.0	7.6	254	0.1	14.8	104.0	7.9	253.0	2.7	13.2	99.2	8.2	190.0
4.5	0.1	13.6	95.1	7.7	264	0.1	14.9	105.0	7.9	252.0	2.7	13.2	99.1	8.2	194.0
5.0	0.2	13.5	95.0	7.7	259	0.1	15.1	106.1	7.9	248.0	2.7	13.2	99.6	8.2	190.0
5.5	0.2	13.5	94.7	7.7	259	0.1	15.2	106.6	7.9	246.0	2.7	13.2	99.6	8.2	188.0
6.0	0.2	13.5	94.5	7.8	253	0.1	15.4	107.8	8.0	241.0	2.7	13.2	99.3	8.2	185.0
6.5	0.2	13.4	94.4	7.8	276	0.1	15.4	107.8	8.0	241.0	2.7	13.1	98.9	8.2	188.0
7.0	0.2	13.4	93.9	7.8	265	0.1	15.4	107.8	8.0	244.0	2.7	13.1	98.8	8.2	187.0
7.5	0.2	13.4	93.9	7.8	266	0.1	15.4	108.3	8.0	239.0	2.7	13.1	98.8	8.2	187.0
8.0	0.2	13.4	93.7	7.8	274	0.1	15.4	108.6	8.0	240.0	2.7	13.0	98.3	8.2	189.0
8.5	0.2	13.3	93.5	7.8	271	0.2	15.5	109.2	8.0	258.0	2.7	13.0	98.5	8.2	185.0
8.8	bottom					0.2	15.5	109.2	8.0	252.0	2.7	13.1	98.5	8.2	188.0

Certificate of Service

I hereby certify that I have this day served the foregoing document upon all entities specified in the order to issue license to be consulted on matters related to the Commission filing. Service was done pursuant to Rule 2010 of FERC's Rules of Practice and Procedure 18 CFR, Section 385.2010

Dated this day Monday, April 10, 2000.


Bill Rauscher
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Wisconsin Electric Power Co.

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