



**Upper Peninsula Power Company**

700 North Adams Street  
P.O. Box 19001  
Green Bay, WI 54307-9001  
www.uppco.com

February 25, 2011

FERC Project No. 10855  
NATDAM Nos. MI00197, MI00175, MI00183

Ms. Kimberly D. Bose, Secretary  
The Federal Energy Regulatory Commission  
888 First Street NE  
Washington, DC 20426

Dear Secretary Bose:

Dead River Hydroelectric Project  
License Article 405 – 2010 Annual Report - Operation Monitoring Plan

Article 405 of the Order Issuing License for the Dead River Hydroelectric Project dated October 2, 2002, and the Order Modifying and Approving Article 405 Operations Monitoring Plan dated March 11, 2010, requires Upper Peninsula Power Company (UPPCO) to submit an annual Operation Monitoring Report. The annual report is required to include the following items:

- 1) A summary of reservoir surface elevations and flow data (see Appendix 1).
- 2) A summary of all deviations from required flows and reservoir elevations that occurred during the year (see Appendix 2).
- 3) A description of any corrective measures implemented during the course of the year, and measures implemented or proposed to improve future compliance, if necessary (see below)
- 4) A record of flushing flows that occurred in the McClure Bypass reach indicating when and if wood debris was transported downstream during the event (see below).
- 5) Summary of all gate and valve openings (see Appendix 3).
- 6) Documentation of consultation on the draft report (see Appendix 4)

A number of outages are associated with disturbances on the transmission lines. In an attempt to reduce the number of trips associated with transmission lines, UPPCO Operations has begun consulting with the UPPCO Line Clearance Group to determine if any additional tree trimming activities can reduce the number of transmission line disturbances associated with trees contacting the lines.

During 2010, UPPCO was reconstructing the penstock at the McClure Development. As a result, a flushing flow (the entire river flow) was passed over the spillway continuously for the months of January through November. At times, this flow exceeded the 130 cfs level.

The flushing flows experienced in 2010 were sufficient to transport the woody debris that was accumulated below the spillway as a result of organic debris passage actions during the year. With the construction of the new penstock at McClure and passing water over the dam at McClure in 2010, UPPCO was unable to annually verify the flow through the siphon.

The Michigan Department of Natural Resources (MDNR), U. S. Fish and Wildlife Service (FWS) and the Michigan Department of Environmental Quality (MDEQ) were sent a draft e-mail on January 10, 2011 and given a 30-day comment period (see Appendix 4); no comments were received.

Ms. Kimberly D. Bose

February 25, 2011

Page 2 of 2

If you have any questions regarding this letter, please contact Robert Meyers at (906) 485-2419 or Virgil Schlorke at (906) 485-2465.

Sincerely,



Terry P. Jensky

Vice President - Energy Supply Operations  
for Wisconsin Public Service Corporation

RJM/ebr

Enc. 2010 Annual Report - Operation Monitoring Plan

cc:	Mr. Gil Snyder, WPSC - D2	Mr. Keith Moyle, UPPCO - UISC
	Mr. Shawn Puzen, IBS - D2	Mr. Virgil Schlorke, UPPCO - UISC
	Ms. Joan Johaneck, WPSC - D2	Ms. Peggy Harding, FERC - CRO
	Mr. Bob Juidici, IBS - D2	Mr. Peter Chapman, FERC - CRO
	Mr. Ben Trotter, IBS - D2	Ms. Patricia Grant, FERC - CRO
	Mr. John Myers, IBS - D2	Mr. Steve Casey, MDNRE
	Mr. Howard Giesler, WPSC - PUL	Mr. Kyle Krueger, MDNRE
	Mr. Robert Meyers, UPPCO - UISC	Ms. Christie Deloria-Sheffield, FWS

# Appendix 1

## Summary of Operations Data

### Point Info - UPPCO-SLK: Headwater Elevation



### Point Info - UPPCO-SLK: TOTAL CFS

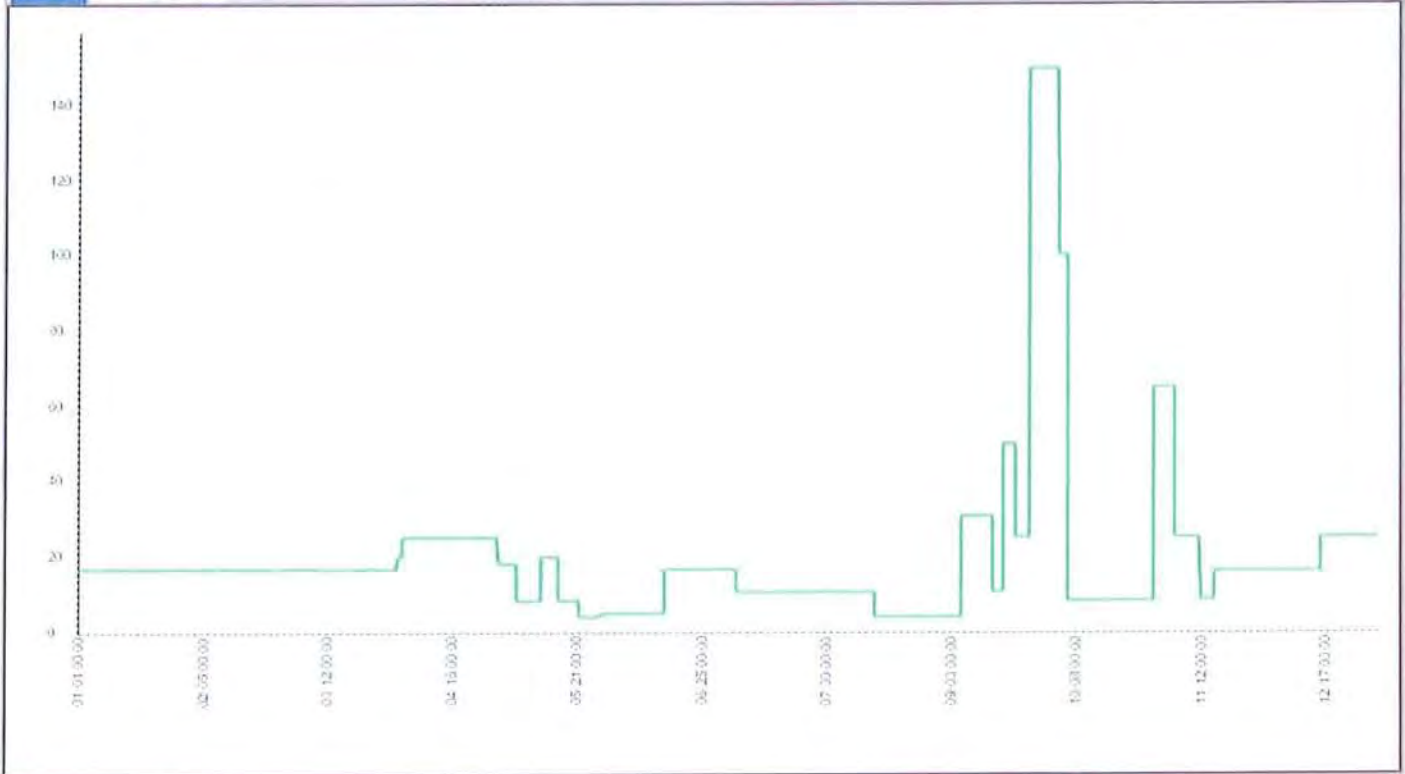
History Live Values Scheduled Values Alarm Tests Recent Events SCADA Documents Schema

Filter

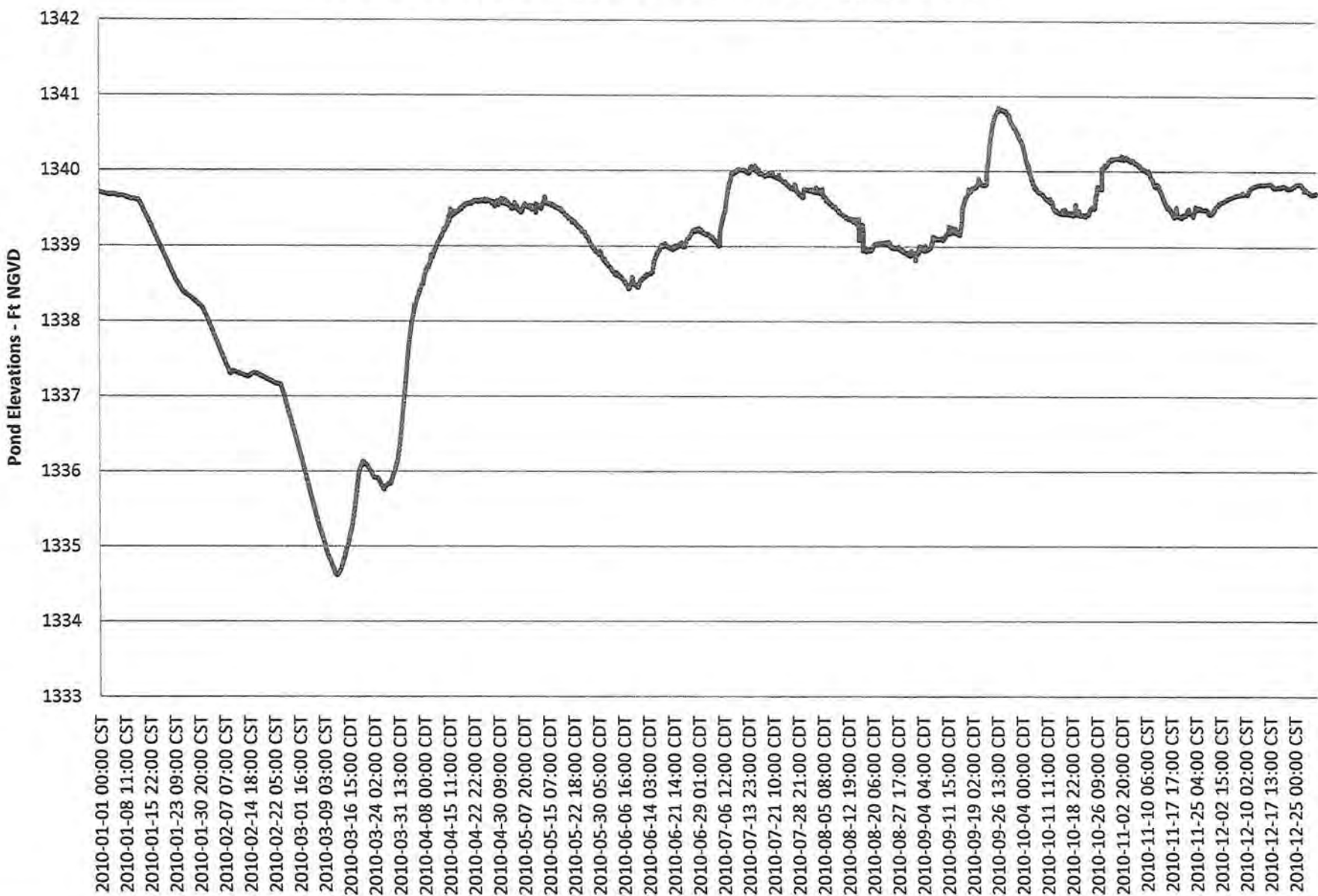
Source: Historical Quick Filter: Custom Line: Slope  Show Limits

Integration: Hour Start Time: 01/01/2010 00:00 End Time:  01/01/2011 00:00

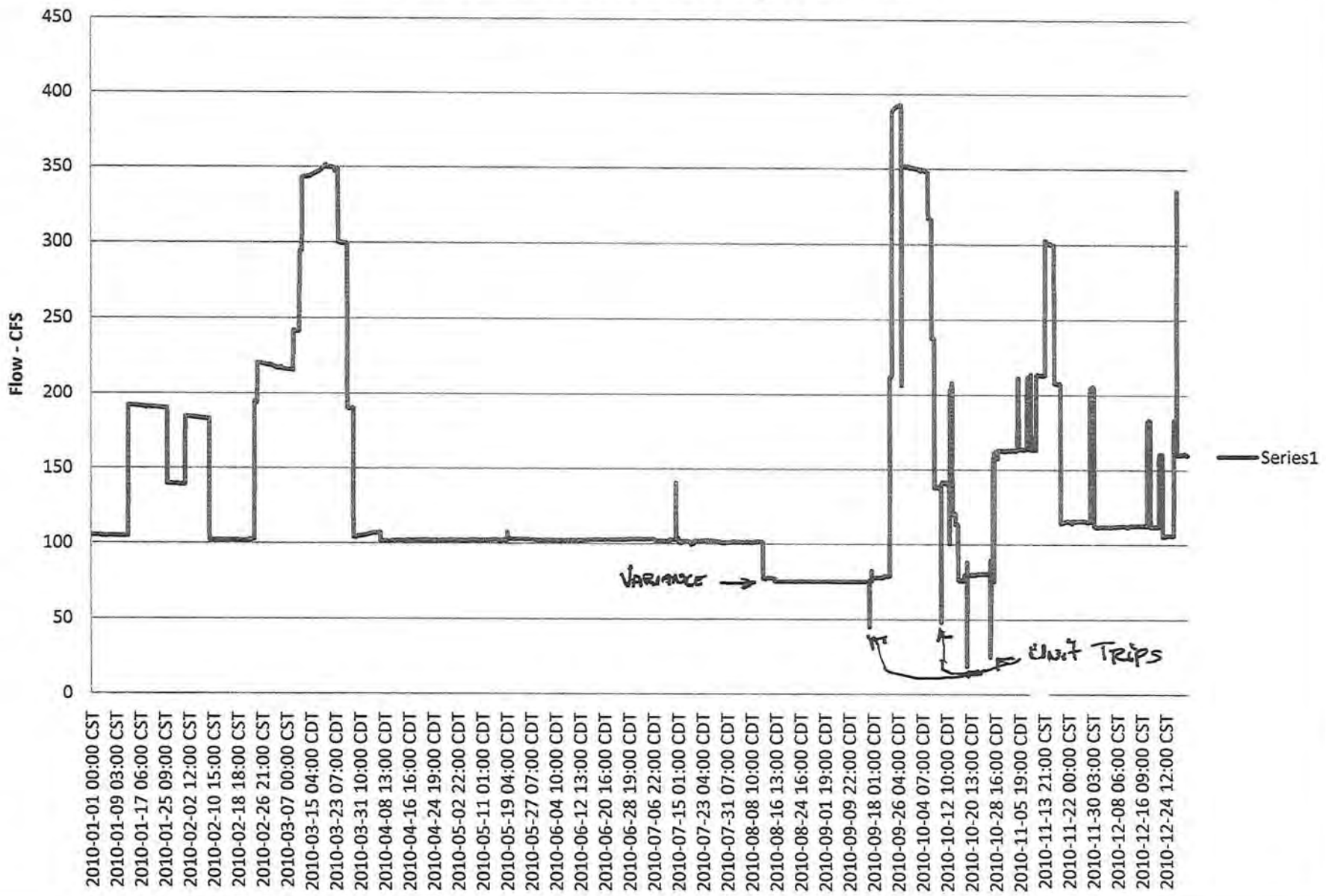
Graph Table States



# Hoist Pond Elevaitons 2010 Ferc Project 10855



# Hoist Flow Data Ferc Project 10855



### Point Info - UPPCO-MCLD: Pond Elevation *last 6 months*

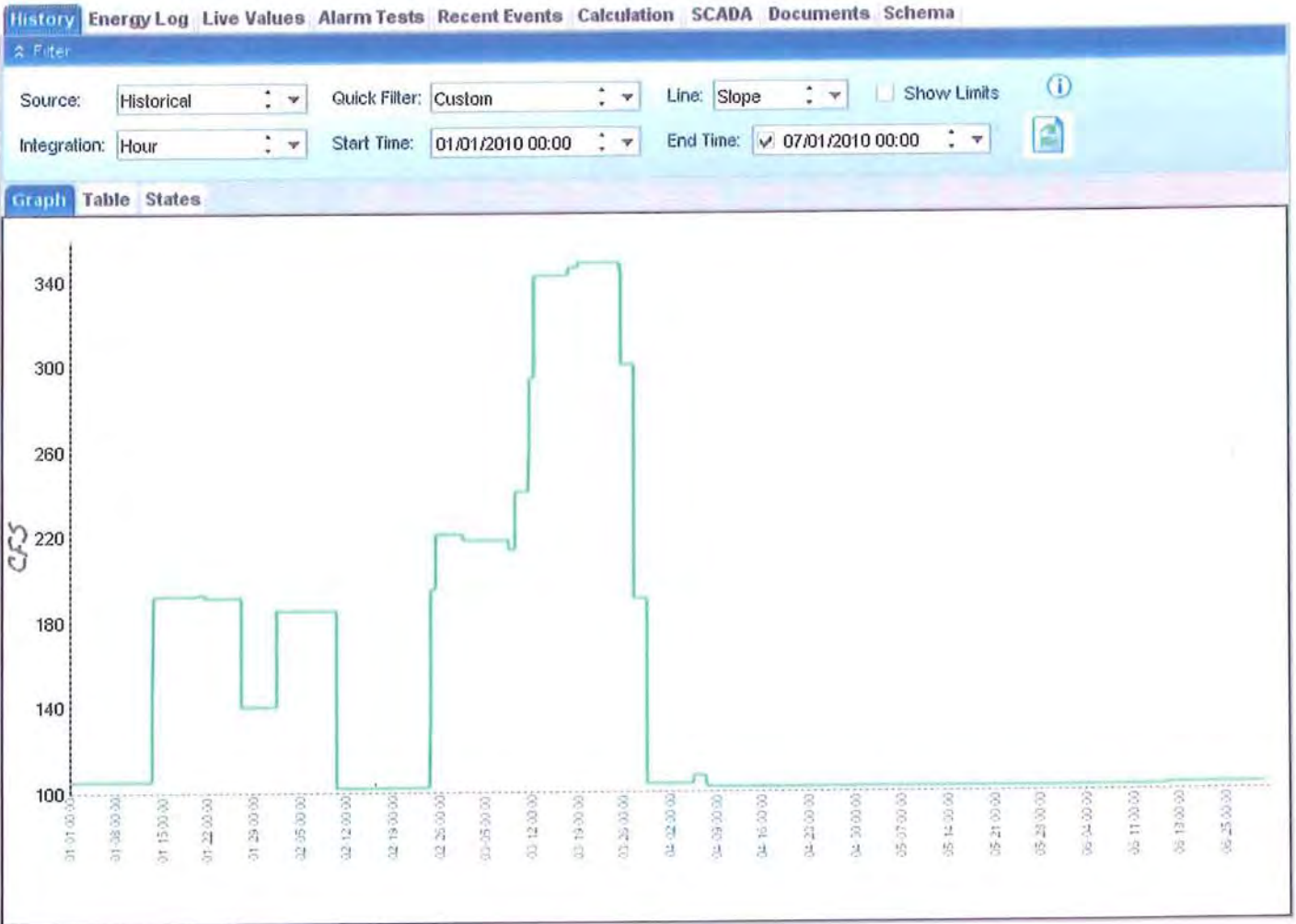




### Point Info - UPPCO-MCLD: Pond Elevation *2nd 6 months*



# Point Info - UPPCO-MCL: UPP MCCLURE GEN TOTAL CFS *let 6 months*



# Point Info - UPPCO-MCL: UPP MCCLURE GEN TOTAL CFS *2nd 6 months*



## Appendix 2

### Summary of Deviations

## Summary of Deviations for the Dead River Project FERC Project No. 10855

Project	Date	Deviation	Reason
Hoist	2/25/2010	Below End of Month Min Elevation	Min Release exceeded Inflow and Requested Lower Min Pond Elevation from Agencies
Hoist	4/3/2010	Returned above Month Min Elevation	Spring Runoff
Hoist	5/29/2010	Below Pond Min Elevation	Min Release exceeded inflow and requested Dry Year Consultation
Hoist	6/26/2010	Returned to required Min Elevation	Variance Filed
Hoist	9/16/2010	Min Flow from Powerhouse below Min	Generator voltage Regulator fault
Hoist	10/10/2010	Min Flow from Powerhouse below Min	Transmission Line Trip
Hoist	10/19/2010	Min Flow from Powerhouse below Min	Transmission Line Trip
Hoist	10/27/2010	Min Flow from Powerhouse below Min	Transmission Line Trip
Silver Lake	5/3/2010	Min Flow below end of Month	Consultation with Agencies - maintain run-of-river scenario to maintain pond elevation

Copy of FERC Correspondence attached



Upper Peninsula Power Company  
700 North Adams Street  
P.O. Box 19601  
Green Bay, WI 54307-9001  
www.uppeco.com

March 3, 2010

FERC Project No. 10855  
NATDAM No. MI00175

Ms. Kimberly D. Bose, Secretary  
The Federal Energy Regulatory Commission  
888 First Street NE  
Washington, DC 20426

Dear Secretary Bose:

Hoist Hydroelectric Project  
Article 402 Planned Deviation of Reservoir Elevation and Minimum Elevation

In accordance with Article 402 of the Order Issuing License for the Hoist Hydroelectric Project dated October 4, 2002, Upper Peninsula Power Company (UPPCO) is required to "strive to operate the existing project facilities to achieve the start of month target elevations". Storage basin elevations may also be modified for short periods upon mutual agreement among the licensee, the Michigan Department of Environmental Quality (MDEQ), the Michigan Department of Natural Resources (MDNR) and the U.S. Fish and Wildlife Service (FWS).

In addition, the licensee is to file a deviation report with the Federal Energy Regulatory Commission, the MDEQ, the MDNR and the FWS when pond elevation falls below the minimum level. Please consider this letter as fulfillment of the notification requirement for a planned deviation of reservoir elevation and a minimum elevation deviation.

On Thursday February 25, 2010 the Hoist Reservoir fell below the end of month minimum of 1337.0 ft NGVD because the required minimum flow release of 100 cfs exceeds the inflow to the reservoir for this season.

The agencies (MDEQ, MDNR and FWS) were informed of this event via e-mail on Thursday, February 25, 2010.

No adverse environmental impacts have been observed as a result of the low elevation condition.

In addition, comments on a planned deviation of the reservoir elevation to lower the reservoir in anticipation of the spring runoff and associated construction work at the McClure dam were requested from the agencies.

At McClure, the earthen embankment will be excavated with work progressing on the penstock replacement.

Ms. Kimberly D. Bose  
March 3, 2010  
Page 2 of 2

UPPCO requested agency comments on a drawdown of the Hoist Reservoir to an elevation of 1333 ft NGVD with a maximum rate not to exceed 0.3 ft per day. Drawing down the Hoist Reservoir will provide storage for spring runoff such that the reservoir at McClure will not need to rise as much to accommodate the spring runoff. Therefore, the stress on the earthen embankment at McClure during the construction will be reduced by the drawdown of the Hoist Reservoir.

UPPCO obtained mutual agreement among MDNR, and MDEQ on the planned deviation with no comments from the FWS. The documentation of consultation is enclosed.

No adverse environmental impacts are expected as a result of this planned deviation.

If you have any questions regarding this letter, please contact Shawn Puzen at (920) 433-1094 or Robert Meyers at (906) 485-2419.

Sincerely,



Terry P. Jensky  
Vice President - Energy Supply Operations  
for Wisconsin Public Service Corporation

RJM/ebr

Enc. E-mail correspondence from agencies

cc:	Mr. Gil Snyder, WPSC - D2	Mr. Keith Moyle, UPPCO - UISC
	Mr. Shawn Puzen, IBS - D2	Mr. Gene Mensch, KBIC
	Ms. Joan Johaneck, WPSC - D2	Ms. Peggy Harding, FERC (CRO)
	Mr. Bob Juidici, WPSC - REG	Mr. Steve Casey, MDEQ
	Mr. Ben Trotter, WPSC - REG	Ms. Jessica Mistak, MDNR
	Mr. John Myers, WPSC - REG	Ms. Christie Deloria-Sheffield, FWS
	Mr. Howard Giesler, WPSC - PUL	Mr. Peter Chapman, FERC (CRO)
	Mr. Robert Meyers, UPPCO - UISC	Ms. Patricia Grant, FERC (CRO)



Upper Peninsula Power Company

700 North Adams Street  
P.O. Box 19001  
Green Bay, WI 54307-9001  
www.uppco.com

April 13, 2010

FERC Project No. 10855  
NATDAM No. MI00175

Ms. Kimberly D. Bose, Secretary  
The Federal Energy Regulatory Commission  
888 First Street NE  
Washington, DC 20426

Dear Secretary Bose:

Hoist Hydroelectric Project  
Article 402 Minimum Elevation Return to Normal Operation

In accordance with Article 402 of the Order Issuing License for the Hoist Hydroelectric Project dated October 4, 2002, Upper Peninsula Power Company (UPPCO) is required to "strive to operate the existing project facilities to achieve the start of month target elevations". Storage basin elevations may also be modified for short periods upon mutual agreement among the licensee, the Michigan Department of Natural Resources & Environment (MDNRE) and the U.S. Fish and Wildlife Service (FWS).

In addition, the licensee is to file a deviation report with the Federal Energy Regulatory Commission, the MDNRE, and the FWS when pond elevation falls below the minimum level. The minimum elevation deviation report was submitted to the Commission on March 3, 2010.

As a follow-up to the March 3, 2010, deviation report, on Saturday April 3, 2010, the Hoist Reservoir rose above monthly minimum of 1337.0 ft NGVD. Inflow exceeded normal outflow due to spring runoff.

The agencies (MDNRE and FWS) were informed of returning to normal elevations via e-mail on Tuesday April 13, 2010.

No adverse environmental impacts were seen as a result of this deviation.

If you have any questions regarding this letter, please contact Robert Meyers at (906) 485-2419 or Shawn Puzen at (920) 433-1094.

Sincerely,

A handwritten signature in black ink, appearing to read "T. J. Jensky".

Terry P. Jensky  
Vice President - Energy Supply Operations  
for Wisconsin Public Service Corporation

RJM/ebr

cc: Mr. Gil Snyder, WPSC - D2  
Mr. Shawn Puzen, IBS - D2  
Ms. Joan Johaneck, WPSC - D2  
Mr. Bob Juidici, WPSC - REG  
Mr. Ben Trotter, WPSC - REG  
Mr. John Myers, WPSC - REG  
Mr. Howard Giesler, WPSC - PUL  
Mr. Robert Meyers, UPPCO - UISC

Mr. Keith Moyle, UPPCO - UISC  
Mr. Gene Mensch, KBIC  
Ms. Peggy Harding, FERC (CRO)  
Mr. Steve Casey, MDNRE  
Ms. Jessica Mistak, MDNRE  
Ms. Christie Deloria-Sheffield, FWS  
Mr. Peter Chapman, FERC (CRO)  
Ms. Patricia Grant, FERC (CRO)





Upper Peninsula Power Company  
700 North Adams Street  
P.O. Box 19001  
Green Bay, WI 54307-9001  
www.uppco.com

June 10, 2010

FERC Project No. 10855  
NATDAM No. MI00175

Ms. Kimberly D. Bose, Secretary  
The Federal Energy Regulatory Commission  
888 First Street NE  
Washington, DC 20426

Dear Secretary Bose:

Hoist Hydroelectric Project  
Article 402 Minimum Elevation Deviation

In accordance with Article 402 of the Order Issuing License for the Hoist Hydroelectric Project dated October 4, 2002, Upper Peninsula Power Company (UPPCO) is required to "at all times above the minimum elevations and strive to operate the existing project facilities to achieve the start of month target elevations." Storage basin elevations may also be modified for short periods upon mutual agreement among the licensee, Michigan Department of Natural Resources & Environment (MDNRE) and the U.S. Fish and Wildlife Service (FWS).

In addition, the licensee is to file a deviation report with the Federal Energy Regulatory Commission, the MDNRE, and the FWS when pond elevation falls below the minimum level. The minimum elevation deviation occurred on May 29, 2010. The MDNRE, FWS, Keweenaw Bay Indian Community (KBIC), and the Dead River Campers were notified by email on June 1, 2010, the first business day following the event. As of 07:00 EDT on June 1, 2010, the pond elevation was 1338.81 ft NGVD and continues to trend down.

Dry year consultation with the MDNRE, FWS, KBIC, and the Dead River Campers is ongoing because a mutual agreement has not been reached.

No adverse environmental impacts were seen as a result of this deviation.

Ms. Kimberly D. Bose  
June 10, 2010  
Page 2 of 2

If you have any questions regarding this letter, please contact Robert Meyers at (906) 485-2419 or Shawn Puzen at (920) 433-1094.

Sincerely,

A handwritten signature in black ink, appearing to read "T. Jensky", with the word "for" written below it.

Terry P. Jensky  
Vice President - Energy Supply Operations  
for Wisconsin Public Service Corporation

RJM/ebr

cc: Mr. Gil Snyder, WPSC - D2  
Mr. Shawn Puzen, IBS - D2  
Ms. Joan Johaneck, WPSC - D2  
Mr. Bob Juidici, IBS - REG  
Mr. Ben Trotter, IBS - REG  
Mr. John Myers, IBS - REG  
Mr. Howard Giesler, WPSC - PUL  
Mr. Robert Meyers, UPPCO - UISC  
Mr. Keith Moyle, UPPCO - UISC

Mr. Virgil Schlorke, UPPCO - UISC  
Ms. Peggy Harding, FERC - CRO  
Mr. Peter Chapman, FERC - CRO  
Ms. Patricia Grant, FERC - CRO  
Mr. Gene Mensch, KBIC  
Mr. Steve Casey, MDNRE  
Ms. Jessica Mistak, MDNRE  
Ms. Christie Deloria-Sheffield, FWS



Upper Peninsula Power Company  
700 North Adams Street  
P.O. Box 19001  
Green Bay, WI 54307-9001  
www.uppco.com

July 1, 2010

FERC Project No. 10855  
NATDAM No. MI00175

Ms. Kimberly D. Bose, Secretary  
The Federal Energy Regulatory Commission  
888 First Street NE  
Washington, DC 20426

Dear Secretary Bose:

Hoist Hydroelectric Project  
Article 402 Minimum Elevation Deviation

On June 10, 2010, Upper Peninsula Power Company (UPPCO) reported a deviation of the minimum headwater elevation at the Hoist Reservoir due to dry-year conditions. The minimum reservoir elevation deviation began on May 29, 2010.

On Saturday, June 26, at 08:30 EDT the Hoist Storage Basin rose above the required minimum elevation to an elevation of 1339.1 ft NGVD.

The Michigan Department of Natural Resources and Environment (MDNRE), Fish and Wildlife Service (FWS), Keweenaw Bay Indian Community (KBIC), and the Dead River Campers Inc. (DRCI) were notified by email on June 28th, 2010, the first business day following the event.

Dry year consultation with the MDNRE, FWS, KBIC, and the DRCI is ongoing, as the minimum elevation 1339.5 feet NGVD for July is not expected to be achieved before July 1, 2010. As a result, UPPCO filed for a variance on June 28, 2010.

If you have any questions regarding this letter, please contact Robert Meyers at (906) 485-2419 or Shawn Puzen at (920) 433-1094.

Sincerely,

A handwritten signature in black ink that reads "T. Jensky".

Terry P. Jensky  
Vice President - Energy Supply Operations  
for Wisconsin Public Service Corporation

RJM/ebr

cc: Mr. Gil Snyder, WPSC - D2  
Mr. Shawn Puzen, IBS - D2  
Ms. Joan Johaneck, WPSC - D2  
Mr. Bob Juidici, IBS - REG  
Mr. Ben Trotter, IBS - REG  
Mr. John Myers, IBS - REG  
Mr. Howard Giesler, WPSC - PUL  
Mr. Robert Meyers, UPPCO - UISC  
Mr. Keith Moyle, UPPCO - UISC  
Mr. Virgil Schlorke, UPPCO - UISC

Ms. Peggy Harding, FERC - CRO  
Mr. Peter Chapman, FERC - CRO  
Ms. Patricia Grant, FERC - CRO  
Mr. Gene Mensch, KBIC  
Mr. Steve Casey, MDNRE  
Ms. Jessica Mistak, MDNRE  
Ms. Christie Deloria-Sheffield, FWS  
Mr. James Grundstrum, DRCI  
Mr. Darryl Sundberg, DRCI  
Mr. Pete Dishow, DRCI



Upper Peninsula Power Company

700 North Adams Street  
P.O. Box 19001  
Green Bay, WI 54307-9001

www.uppco.com

FERC Project No. 10855  
NATDAM No. MI00175

July 12, 2010

Ms. Kimberly D. Bose, Secretary  
The Federal Energy Regulatory Commission  
888 First Street NE  
Washington, DC 20426

Dear Secretary Bose:

Hoist Hydroelectric Project  
Article 402 Minimum Elevation Return to Normal Operation

In accordance with Article 402 of the Order Issuing License for the Hoist Hydroelectric Project dated October 4, 2002, Upper Peninsula Power Company (UPPCO) is required to "strive to operate the existing project facilities to achieve the start of month target elevations". Storage basin elevations may also be modified for short periods upon mutual agreement among the licensee, the Michigan Department of Natural Resources & Environment (MDNRE) and the U.S. Fish and Wildlife Service (FWS).

In addition, the licensee is to file a deviation report with the Federal Energy Regulatory Commission, the MDNRE, and the FWS when pond elevation falls below the minimum level. The minimum elevation deviation report was submitted to the Commission on June 10, 2010.

On Wednesday July 7, 2010 at 16:00 hours EDT, the Hoist Reservoir rose above monthly minimum of 1339.5 ft NGVD. Recent rain fall increased the inflow and allowed the pond to recover.

The agencies (MDNRE and FWS) were informed of returning to normal elevations via e-mail on Thursday July 8, 2010.

No adverse environmental impacts were seen as a result of this deviation.

If you have any questions regarding this letter, please contact Robert Meyers at (906) 485-2419 or Shawn Puzen at (920) 433-1094.

Sincerely,

A handwritten signature in black ink, appearing to read "T. J. Snyder" with a flourish at the end. Below the signature, the word "for" is written in a smaller font.

Terry P. Jensky  
Vice President - Energy Supply Operations  
for Wisconsin Public Service Corporation

RJM/ebr

cc: Mr. Gil Snyder, WPSC - D2  
Mr. Shawn Puzen, IBS - D2  
Ms. Joan Johaneck, WPSC - D2  
Mr. Bob Juidici, WPSC - REG  
Mr. Ben Trotter, WPSC - REG  
Mr. John Myers, WPSC - REG  
Mr. Howard Giesler, WPSC - PUL  
Mr. Robert Meyers, UPPCO - UISC  
Mr. Robert Meyers, UPPCO - UISC  
Mr. Keith Moyle, UPPCO - UISC  
Mr. Virgil Schlorke, UPPCO - UISC

Ms. Peggy Harding, FERC (CRO)  
Mr. Peter Chapman, FERC (CRO)  
Ms. Patricia Grant, FERC (CRO)  
Mr. Steve Casey, MDNRE  
Ms. Jessica Mistak, MDNRE  
Ms. Christie Deloria-Sheffield, FWS  
Mr. Gene Mensch, KBIC  
Mr. Pete Dishow, DRCI  
Mr. Darryl Sundberg, DRCI  
Mr. James Grundstrum, DRCI



Upper Peninsula Power Company  
700 North Adams Street  
P.O. Box 19001  
Green Bay, WI 54307-9001  
www.uppco.com

September 30, 2010

FERC Project No. 10855  
NATDAM No. MI00175

**Contains Critical Energy Infrastructure Information – Do Not Release**

Ms. Kimberly D. Bose, Secretary  
The Federal Energy Regulatory Commission  
888 First Street NE  
Washington, DC 20426

Dear Secretary Bose:

Hoist Hydroelectric Project  
Article 403 Minimum Flows

In accordance with Article 403 of the Order Issuing License for the Hoist Hydroelectric Project dated October 4, 2002, the licensee is required to file a deviation report with the Federal Energy Regulatory Commission, Michigan Department of Natural Resources & Environment (MDNRE), U.S. Fish and Wildlife Services (USFWS), and the Dead River Campers Inc. (DRCI) when discharge from the powerhouse falls below the minimum flow requirement. Please consider this letter as fulfillment of the notification requirement for a minimum flow deviation.

On Thursday, September 16, 2010, at 16:00 EDT, the continuous flow of 75 cfs was disrupted following a turbine generator trip at the Hoist powerhouse. The Unit 3 turbine generator tripped after being returned to service following an outage for maintenance work at the intake. The low level outlet was opened at 17:00 EDT re-establishing a minimum flow of 75 cfs. Generation was restored at 14:10 EDT on Friday September 17, 2010, and the project was returned to normal service when the low level outlet was closed at 14:55 EDT. The cause of the outage was due to a faulty voltage regulator that controls the generator voltage. Once a spare regulator was installed, the unit returned to normal service.

No adverse environmental impacts were observed as a result of any of the low flow conditions.

The agencies (MDEQ, MDNR, USFWS and DRCI) were informed of this event via e-mail on Friday, September 17, 2010.

Ms. Kimberly D. Bose  
September 30, 2010  
Page 2 of 2

If you have any questions regarding this letter, please contact Robert Meyers at (906) 485-2419 or Virgil Schlorke at (906) 485-2465.

Sincerely,



Terry P. Jensky  
Vice President - Energy Supply Operations  
for Wisconsin Public Service Corporation

RJM/ebr

cc: Mr. Gil Snyder, WPSC - D2  
Mr. Shawn Puzen, IBS - D2  
Ms. Joan Johaneck, WPSC - D2  
Mr. Bob Juidici, IBS - REG  
Mr. Ben Trotter, IBS - REG  
Mr. John Myers, IBS - REG  
Mr. Howard Giesler, WPSC - PUL  
Mr. Keith Moyle, UPPCO - UISC  
Mr. Robert Meyers, UPPCO - UISC  
Mr. Virgil Schlorke, UPPCO - UISC  
Ms. Peggy Harding, FERC - CRO  
Mr. Steve Casey, MDNRE  
Ms. Jessica Mistak, MDNRE  
Ms. Christie Deloria-Sheffield, USFWS  
Mr. James Grundstrum, DRCI



Upper Peninsula Power Company  
700 North Adams Street  
P.O. Box 19001  
Green Bay, WI 54307-9001  
www.uppco.com

October 29, 2010

FERC Project No. 10855  
NATDAM No. MI00175

**Contains Critical Energy Infrastructure Information – Do Not Release**

Ms. Kimberly D. Bose, Secretary  
The Federal Energy Regulatory Commission  
888 First Street NE  
Washington, DC 20426

Dear Secretary Bose:

**Hoist Hydroelectric Project**  
**Article 403 Minimum Flows**

In accordance with Article 403 of the Order Issuing License for the Hoist Hydroelectric Project dated October 4, 2002, the licensee is required to file a deviation report with the Federal Energy Regulatory Commission, Michigan Department of Natural Resources & Environment (MDNRE), U.S. Fish and Wildlife Services (USFWS), and the Dead River Campers Inc. (DRCI) when discharge from the powerhouse falls below the minimum flow requirement. Please consider this letter as fulfillment of the notification requirement for a minimum flow deviation.

On Sunday October 10, 2010, at 15:15 EDT, the continuous flow of 75 cfs was disrupted following a turbine generator trip at the Hoist powerhouse. The Unit 3 turbine generator tripped when the transmission line tripped. The transmission line tripped when a bird flew into the substation causing the breaker to open. Once the dead bird (a raven) was removed, the breaker was returned to service. The low level outlet was opened at 16:30 EDT re-establishing a minimum flow of 75 cfs. Generation was restored at 17:40 EDT and the project was returned to normal service when the low level outlet was closed at 18:40 EDT. No adverse environmental impacts were observed as a result of any of the low flow conditions.

On Tuesday October 19<sup>th</sup>, 2010, at 07:00 EDT, the continuous flow of 75 cfs was disrupted following a turbine generator trip at the Hoist powerhouse. The Unit 3 turbine generator tripped when a fault occurred on the transmission line. Several dead trees hit the line causing the trip. Unit 2 was placed on line at 07:48 EDT re-establishing the minimum flow of 75 cfs. No adverse environmental impacts were observed as a result of any of the low flow conditions.

The agencies (MDEQ, MDNR, USFWS and DRCI) were informed of both events via e-mail.

Ms. Kimberly D. Bose  
October 29, 2010  
Page 2 of 2

If you have any questions regarding this letter, please contact Robert Meyers at (906) 485-2419 or Virgil Schlorke at (906) 485-2465.

Sincerely,



Terry P. Jensky  
Vice President - Energy Supply Operations  
for Wisconsin Public Service Corporation

RJM/cmw

cc: Mr. Gil Snyder, WPSC - D2  
Mr. Shawn Puzen, IBS - D2  
Ms. Joan Johaneck, WPSC - D2  
Mr. Bob Juidici, IBS - D2  
Mr. Ben Trotter, IBS - D2  
Mr. John Myers, IBS - D2  
Mr. Howard Giesler, WPSC - PUL  
Mr. Keith Moyle, UPPCO - UISC  
Mr. Robert Meyers, UPPCO - UISC  
Mr. Virgil Schlorke, UPPCO - UISC  
Ms. Peggy Harding, FERC - CRO  
Mr. Steve Casey, MDNRE  
Mr. Chris Freiburger, MDNRE  
Ms. Christie Deloria-Sheffield, USFWS  
Mr. James Grundstrum, DRCI





Upper Peninsula Power Company  
700 North Adams Street  
P.O. Box 19001  
Green Bay, WI 54307-9001  
www.uppcos.com

November 5, 2010

FERC Project No. 10855  
NATDAM No. MI00175

**Contains Critical Energy Infrastructure Information – Do Not Release**

Ms. Kimberly D. Bose, Secretary  
The Federal Energy Regulatory Commission  
888 First Street NE  
Washington, DC 20426

Dear Secretary Bose:

Hoist Hydroelectric Project  
Article 403 Minimum Flows

In accordance with Article 403 of the Order Issuing License for the Hoist Hydroelectric Project dated October 4, 2002, the licensee is required to file a deviation report with the Federal Energy Regulatory Commission, Michigan Department of Natural Resources & Environment (MDNRE), U.S. Fish and Wildlife Services (USFWS), and the Dead River Campers Inc. (DRCI) when discharge from the powerhouse falls below the minimum flow requirement. Please consider this letter as fulfillment of the notification requirement for a minimum flow deviation.

On Wednesday October 27, 2010, at 01:15 EDT, the continuous flow of 75 cfs was disrupted following a turbine generator trip at the Hoist powerhouse. The Unit 3 turbine generator tripped when the transmission line tripped. High winds caused numerous trees located off the right-of-way to fall into the lines. The low level outlet was opened at 02:55 EDT re-establishing a minimum flow of 75 cfs. Several attempts were made to restore the unit to service but failed due to the severe weather. Unit 3 was restored to service on Thursday October 28, 2010, at 08:19 EDT. With the number of outages and other severe weather conditions, the Low Level Outlet (LLO) remained open and was closed on October 29, 2010, at 10:30 EDT. No adverse environmental impacts were observed as a result of any of the low flow conditions.

The agencies (MDEQ, MDNR, USFWS and DRCI) were informed of the event via e-mail.

Ms. Kimberly D. Bose  
November 5, 2010  
Page 2 of 2

If you have any questions regarding this letter, please contact Robert Meyers at (906) 485-2419 or Virgil Schlorke at (906) 485-2465.

Sincerely,

A handwritten signature in cursive script that reads "Bruce Crocker for".

Terry P. Jensky  
Vice President - Energy Supply Operations  
for Wisconsin Public Service Corporation

RJM/ebr

cc: Mr. Gil Snyder, WPSC - D2  
Mr. Shawn Puzen, IBS - D2  
Ms. Joan Johaneck, WPSC - D2  
Mr. Bob Juidici, IBS - D2  
Mr. Ben Trotter, IBS - D2  
Mr. John Myers, IBS - D2  
Mr. Howard Giesler, WPSC - PUL  
Mr. Keith Moyle, UPPCO - UISC

Mr. Robert Meyers, UPPCO - UISC  
Mr. Virgil Schlorke, UPPCO - UISC  
Ms. Peggy Harding, FERC - CRO  
Mr. Steve Casey, MDNRE  
Mr. Chris Freiburger, MDNRE  
Ms. Christie Deloria-Sheffield, USFWS  
Mr. James Grundstrum, DRCI



Upper Peninsula Power Company  
700 North Adams Street  
P.O. Box 19001  
Green Bay, WI 54307 9001  
www.uppeco.com

May 7, 2010

FERC Project No. 10855  
NATDAM No. MI00197

Ms. Kimberly D. Bose, Secretary  
The Federal Energy Regulatory Commission  
888 First Street NE  
Washington, DC 20426

Dear Secretary Bose:

Dead River Hydroelectric Project - Silver Lake Development  
Article 403 Minimum Flow Deviation

In accordance with Article 402 of the Order Issuing License for the Hoist Hydroelectric Project dated October 4, 2002, and the Order Modifying and Approving Operations Monitoring Plan under Article 405 dated March 11, 2010, Upper Peninsula Power Company (UPPCO) is required to "maintain minimum flows at each of the three Dead River Project developments for the protection and enhancement of water quality, recreation, and aquatic resources in the Dead River as described below" (1) Maintain minimum flows from the Silver Lake dam for the month of May at 20 cfs.

Consultation during adverse conditions can be held with the Michigan Department of Natural Resources & Environment (MDNRE), Dead River Campers Inc. (DRCI), Keweenaw Bay Indian Community (KBIC), and U.S. Fish and Wildlife Service (FWS). In anticipation of the flow change in May, the MDEQ, MDNR, DRCI, KBIC and the FWS were consulted. The consultation was completed via e-mail.

The Michigan Department of Natural Resources and Environment (MDNRE) responded for the former MDEQ/ MDNR. The DRCI responded with a request to reduce the minimum flow from Hoist, and no replies were received from the others. The agreed upon plan was to maintain a run-of-river scenario trying to maintain a pond elevation.

On Saturday May 1, 2010, the outlet flow from Silver Lake was 18 cfs. On Monday May 3, the flow was reduced to 8 cfs. The MDNRE, KBIC and the FWS were notified of these conditions on Monday May 3, 2010, by email. The DRCI was notified by email on May 6, 2010. UPPCO is still reviewing the DRCI request for minimum flow reductions at Hoist, and consultation will continue at least weekly with the MDNRE, KBIC, DRCI and the FWS, based on the extreme dry conditions.

No adverse environmental impacts were seen as a result of this deviation.

Ms. Kimberly D. Bose  
May 7, 2010  
Page 2 of 2

If you have any questions regarding this letter, please contact Robert Meyers at (906) 485-2419 or Shawn Puzen at (920) 433-1094.

Sincerely,



Terry P. Jensky  
Vice President - Energy Supply Operations  
for Wisconsin Public Service Corporation

RJM/ebr

cc: Mr. Gil Snyder, WPSC - D2  
Mr. Shawn Puzen, IBS - D2  
Ms. Joan Johaneck, WPSC - D2  
Mr. Bob Juidici, IBS - REG  
Mr. Ben Trotter, IBS - REG  
Mr. John Myers, IBS - REG  
Mr. Howard Giesler, WPSC - PUL  
Mr. Robert Meyers, UPPCO - UISC  
Mr. Keith Moyle, UPPCO - UISC  
Ms. Peggy Harding, FERC - CRO  
Mr. Peter Chapman, FERC - CRO  
Ms. Patricia Grant, FERC - CRO  
Mr. Gene Mensch, KBIC  
Mr. Steve Casey, MDNRE  
Ms. Jessica Mistak, MDNRE  
Ms. Christie Deloria-Sheffield, FWS



Upper Peninsula Power Company  
700 North Adams Street  
P.O. Box 19001  
Green Bay, WI 54307-9001  
www.uppc.com

May 24, 2010

FERC Project No. 10855  
NATDAM No. MI00197

Ms. Kimberly D. Bose, Secretary  
The Federal Energy Regulatory Commission  
888 First Street NE  
Washington, DC 20426

Dear Secretary Bose:

Dead River Hydroelectric Project - Silver Lake Development  
Article 403 Minimum Flow Deviation

Per the Order Modifying and Approving Operations Monitoring Plan under Article 405 dated March 11, 2010, Upper Peninsula Power Company (UPPCO) is required to "maintain minimum flows at each of the three Dead River Project developments for the protection and enhancement of water quality, recreation, and aquatic resources in the Dead River as described below" (1) Maintain minimum flows from the Silver Lake dam for the month of May at 20 cfs.

In accordance with Article 402 of the Order Issuing License for the Dead River Hydroelectric Project dated October 4, 2002, Consultation during adverse conditions can be held with the Michigan Department of Natural Resources & Environment (MDNRE), Dead River Campers Inc. (DRCI), Keweenaw Bay Indian Community (KBIC), and U.S. Fish and Wildlife Service (FWS). In anticipation of the flow change in May, the MDNRE, DRCI, KBIC and the FWS were consulted. The consultation was completed via e-mail.

The Michigan Department of Natural Resources & Environment (MDNRE) responded in agreement for the former MDEQ/MDNR. The DRCI responded with a request to reduce the minimum flow from Hoist, and no replies were received from the others. The agreed upon plan was to maintain a run-of-river scenario trying to maintain a pond elevation.

On Monday, May 10, 2010, the outlet flow from Silver Lake was increased to the minimum of 20 cfs following snow fall over the weekend. On Saturday May 15<sup>th</sup> the flow was again reduced to 8 cfs when inflow could not match the outflow.

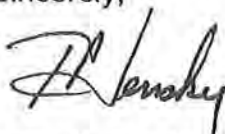
Ms. Kimberly D. Bose  
May 24, 2010  
Page 2 of 2

The MDNRE, KBIC, DRCI and the FWS were notified of these changes on Monday May 10, 2010, and Monday May 17, 2010, by e-mail. Consultation will continue at least weekly with the MDNRE, KBIC, DRCI and the FWS, based on the extreme dry conditions.

No adverse environmental impacts were seen as a result of this deviation.

If you have any questions regarding this letter, please contact Robert Meyers at (906) 485-2419 or Shawn Puzen at (920) 433-1094.

Sincerely,



Terry P. Jensky  
Vice President - Energy Supply Operations  
for Wisconsin Public Service Corporation

RJM/ebr

cc: Mr. Gil Snyder, WPSC - D2  
Mr. Shawn Puzen, IBS - D2  
Ms. Joan Johaneck, WPSC - D2  
Mr. Bob Juidici, IBS - REG  
Mr. Ben Trotter, IBS - REG  
Mr. John Myers, IBS - REG  
Mr. Howard Giesler, WPSC - PUL  
Mr. Robert Meyers, UPPCO - UISC  
Mr. Virgil Schlorke, UPPCO - WRP  
Mr. Keith Moyle, UPPCO - UISC  
Ms. Peggy Harding, FERC - CRO  
Mr. Peter Chapman, FERC - CRO  
Ms. Patricia Grant, FERC - CRO  
Mr. Gene Mensch, KBIC  
Mr. Steve Casey, MDNRE  
Ms. Jessica Mistak, MDNRE  
Ms. Christie Deloria-Sheffield, FWS

## Appendix 3

### Summary of Gate and Valve Openings





## Appendix 4

### Documentation of Consultation

**Meyers, Robert J**

---

**From:** Meyers, Robert J  
**Sent:** Monday, January 10, 2011 12:16 PM  
**To:** 'Casey, Steve (DNRE)'; Kruger, Kyle (DNRE); 'Christie\_Deloria@fws.gov'  
**Cc:** Puzen, Shawn C; Schlorke, Virgil E; Rushford, Emily B; Meyers, Robert J  
**Subject:** Dead River Lic Article 405 - 2010 Annual Operations Monitoring Plan - Draft Report - Attached  
**Attachments:** Dead River Annual Operations Report Draft to Agencies 2010.pdf  
  
**Expires:** Saturday, July 09, 2011 12:00 AM

Gang,

Attached is the Draft Report for your review and comments.

Please review and comment back by February 11<sup>th</sup>, 2010 so we can prepare the submittal for the FERC Commission.

Any Questions Call, or Email me.

Thanks

Bob

Robert J. Meyers  
UPPCO - Project Manager  
500 N.Washington St.  
Ishpeming, MI 49849  
phone desk: (906) 485-2419  
phone cell: (906) 362-8249  
email: [rjmeyers@uppcoco.com](mailto:rjmeyers@uppcoco.com)

This email and any of its attachments may contain proprietary information, which is privileged, confidential, protected by attorney-client privilege or subject to copyright belonging to WPSC/UPPCO/Integrus. This email is intended solely for the use of the individual or entity to which it is addressed. If you are not the intended recipient of this email, you are hereby notified that any dissemination, distribution, copying, or action taken in relation to the contents of and attachments to this email is strictly prohibited and may be unlawful. If you have received this email in error, please notify the sender immediately and permanently delete the original and any copy of this email and any attachment. Thank you.



Upper Peninsula Power Company

700 North Adams Street  
P.O. Box 19001  
Green Bay, WI 54307-9001  
www.uppc.com

January 10, 2011

FERC Project No. 10855  
NATDAM No. MI00197,  
MI00175, MI00183

MDEQ – Steve Casey  
MDNR – Kyle Krueger  
US Fish and Wildlife – Christie Deloria

Dear (agency - representative):

Dead River Hydroelectric Project  
License Article 405 - 2010 Annual Operation Monitoring Plan – DRAFT report

Article 405 of the Order Issuing License for the Dead River Hydroelectric Project dated October 4, 2002, and the Order Modifying and Approving Article 405 Operations Monitoring Plan dated March 11, 2010 requires Upper Peninsula Power Company to submit an annual operations Monitoring Report. The annual report is required to include the following items:

- 1) A summary of reservoir surface elevations and flow data (See Appendix 1).
- 2) A summary of all deviations from required flows and reservoir elevations that occurred during the year (See Appendix 2).
- 3) A description of any corrective measures implemented during the course of the year, and measures implemented or proposed to improve future compliance, if necessary (See Below).
- 4) A record of flushing flows that occurred in the McClure Bypass reach indicating when and if woody debris was transported downstream during the event (See Below).
- 5) Summary of all gate and valve openings (See Appendix 3).
- 6) Documentation of consultation on the draft report (See Appendix 4).

A number of outages are associated with disturbances on the transmission lines. To attempt to reduce the number of trips associated with the transmission lines, UPPCO Operations has begun consulting with the UPPCO Line Clearance Group to determine if any additional tree trimming activities can reduce the number of transmission line disturbances associated with trees contacting the lines.

During 2010, UPPCO was reconstructing the penstock at the McClure Development. As a result, a flushing flow (the entire river flow) was passed over the spillway continuously for the Months of January through November. At times, this flow exceeded the 130 cfs level.

The flushing flows experienced in 2010 were sufficient to transport the woody debris that was accumulated below the spillway downstream.

With the construction of the new penstock at McClure and passing water over the dam at McClure in 2010, UPPCO was unable to annually verify the flow through the siphon.

Please provide comments on this draft report no later than February 11, 2011.

If you have any questions regarding this letter, please contact Robert J. Meyers at (906) 485-2419 or Virgil E. Schlorke at (906) 485-2465.

Sincerely,

Robert J. Meyers

Project Manager  
500 N. Washington St.  
Ishpeming, MI 49849

RJM/ebr

Enc: **DRAFT** Report - Attachments

cc:

Mr. Shawn Puzen, IBS  
Mr. Virgil Schlorke, UPPCO

# Appendix 1

## Summary of Operations Data

### Point Info - UPPCO-SLK: Headwater Elevation

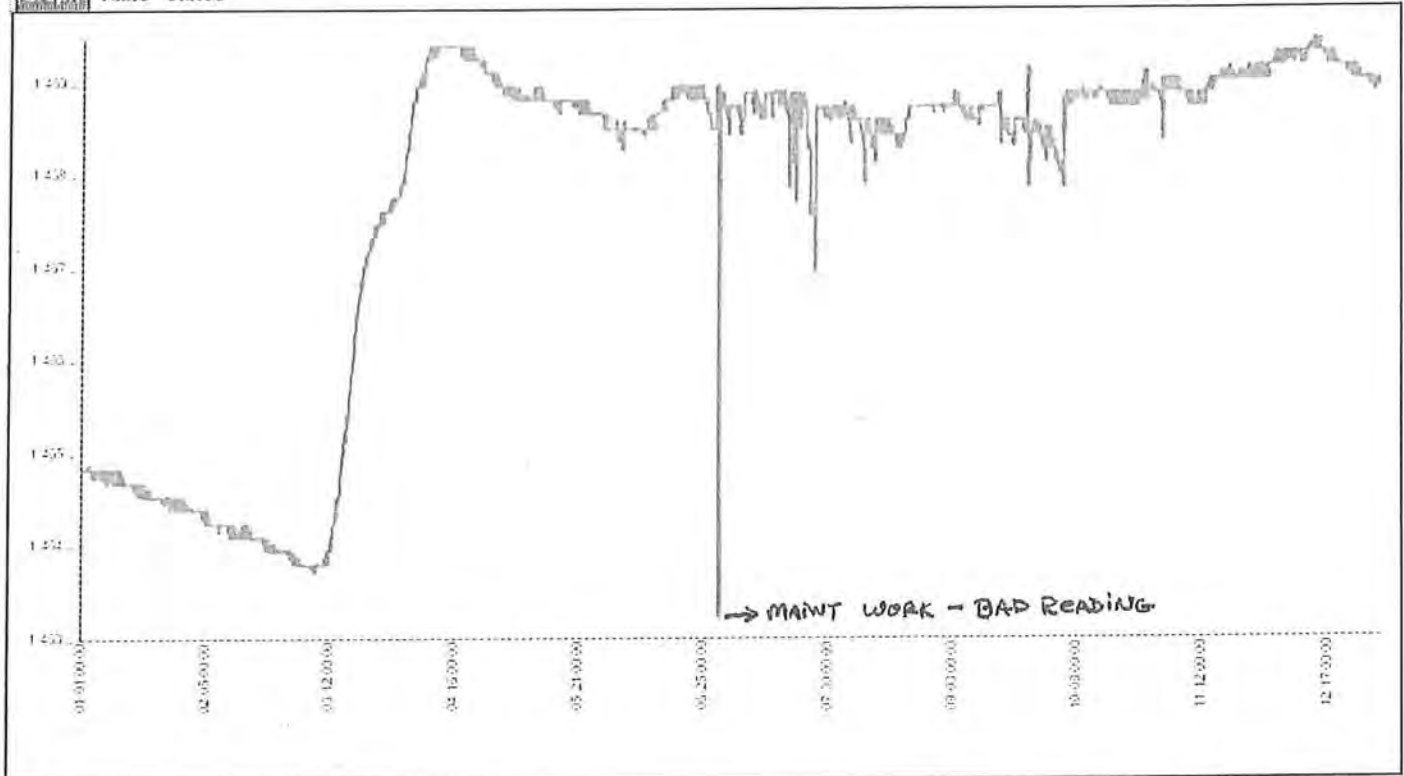
History Live Values Alarm Tests Recent Events SCADA Documents Schema

Filter

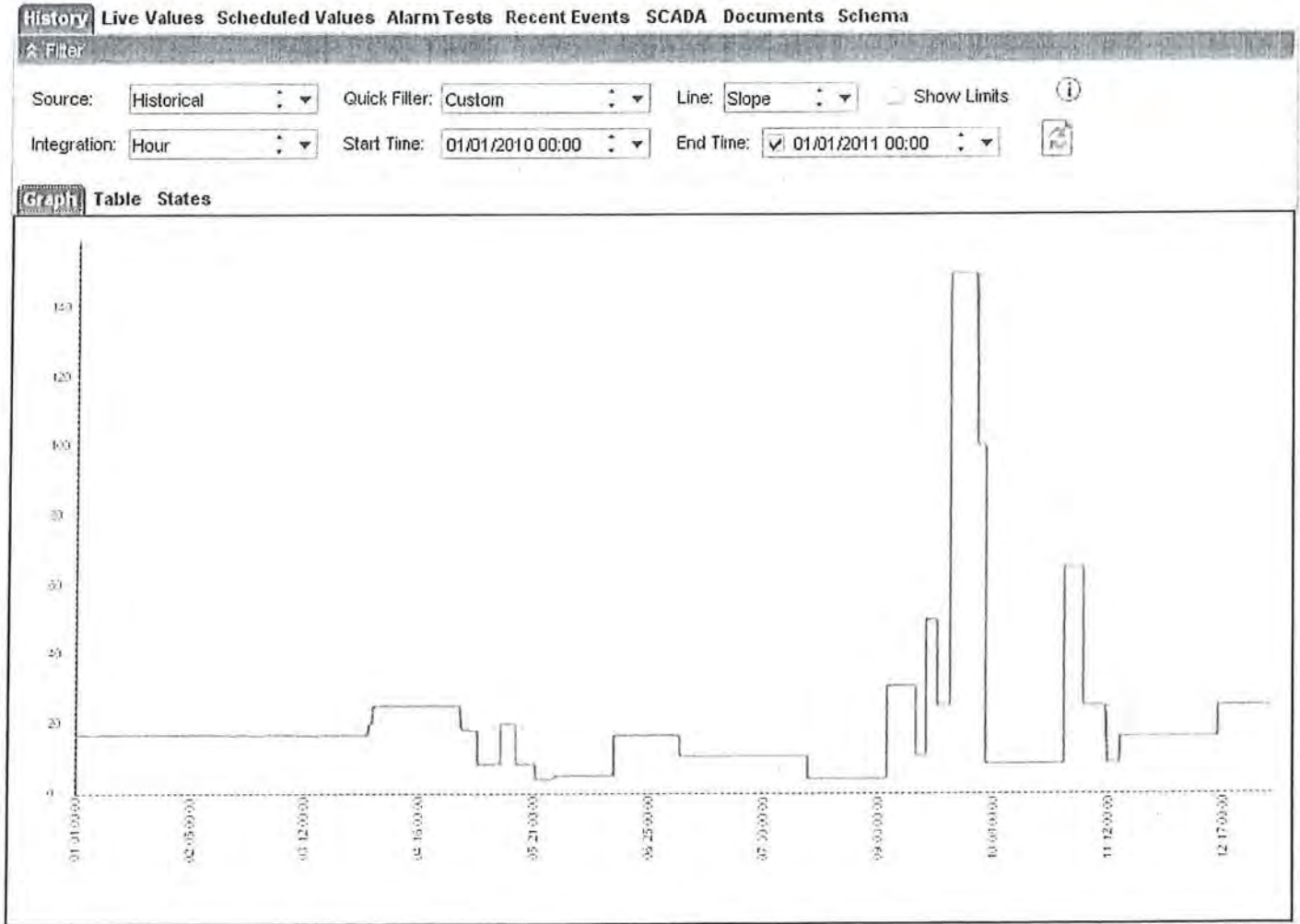
Source:  Quick Filter:  Line:  Show Limits

Integration:  Start Time:  End Time:

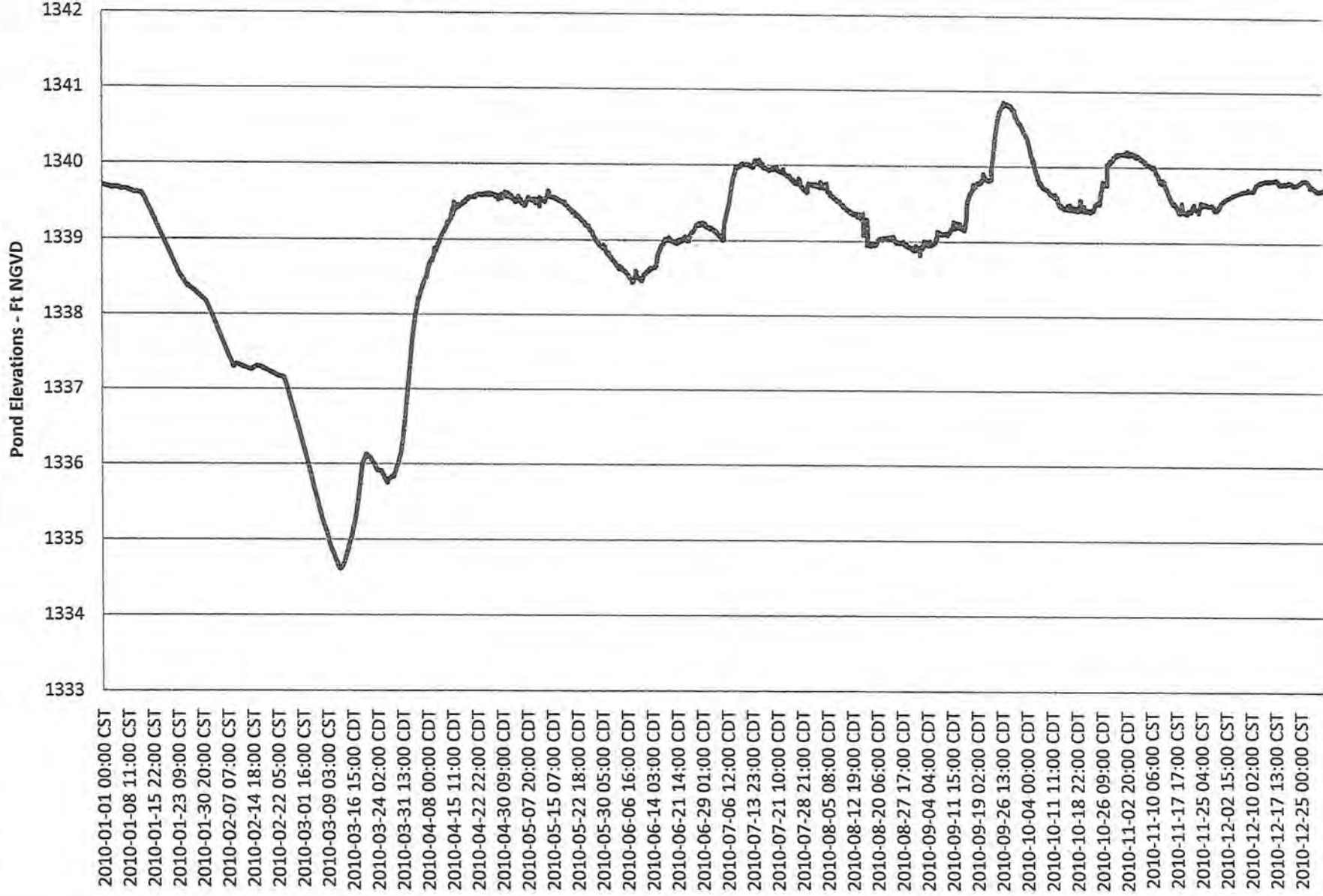
Graph Table States



### Point Info - UPPCO-SLK: TOTAL CFS

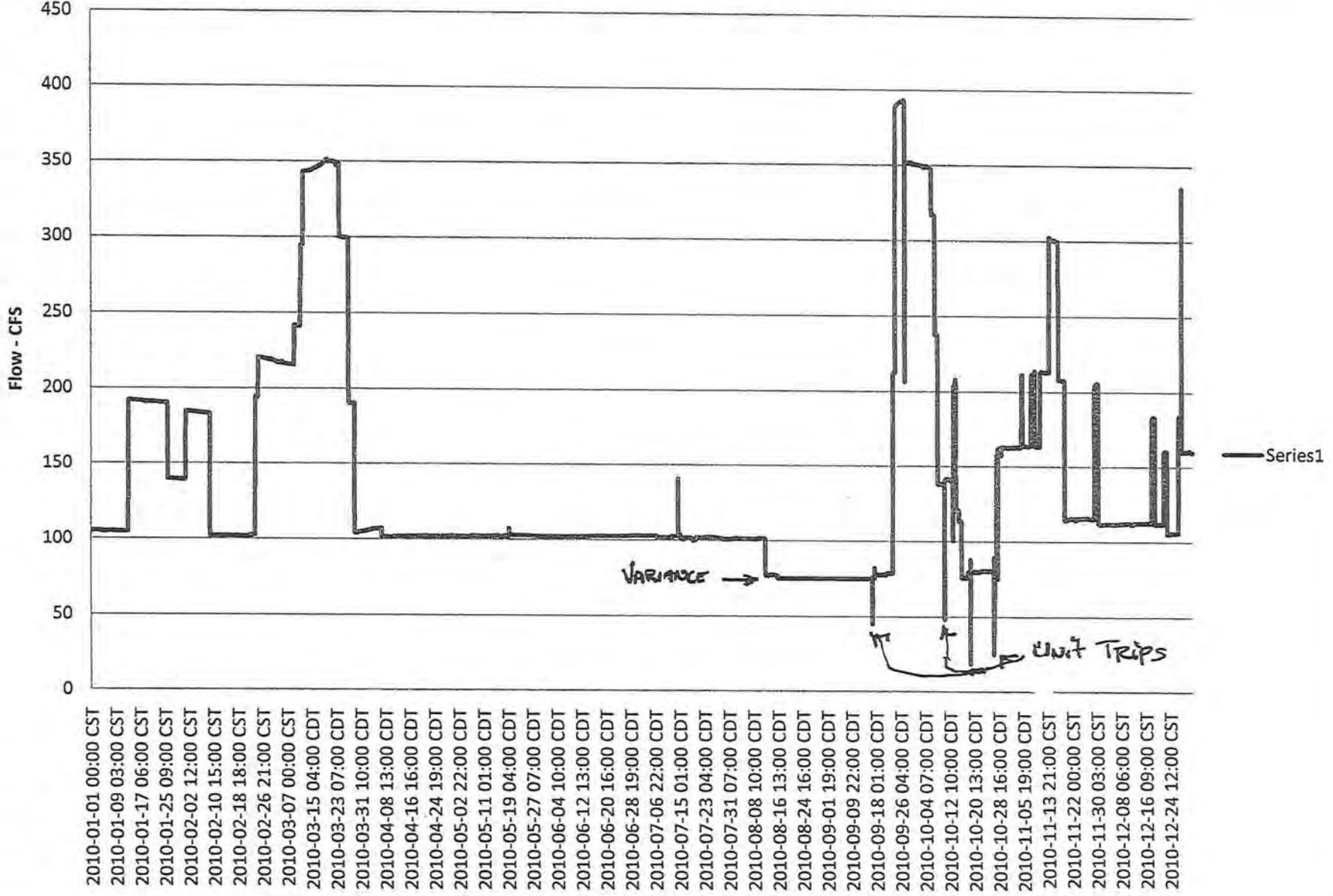


# Hoist Pond Elevaitons 2010 Ferc Project 10855

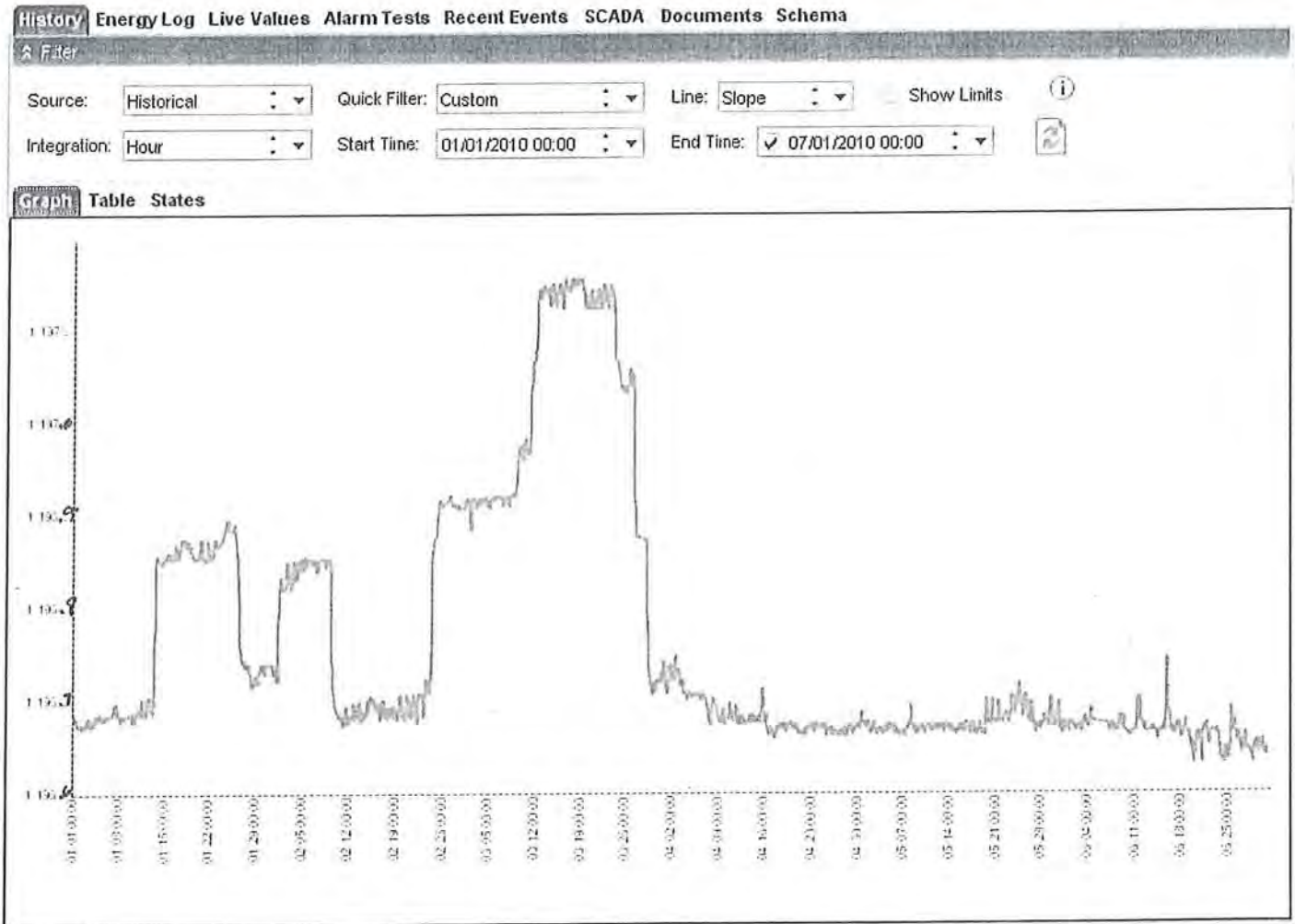




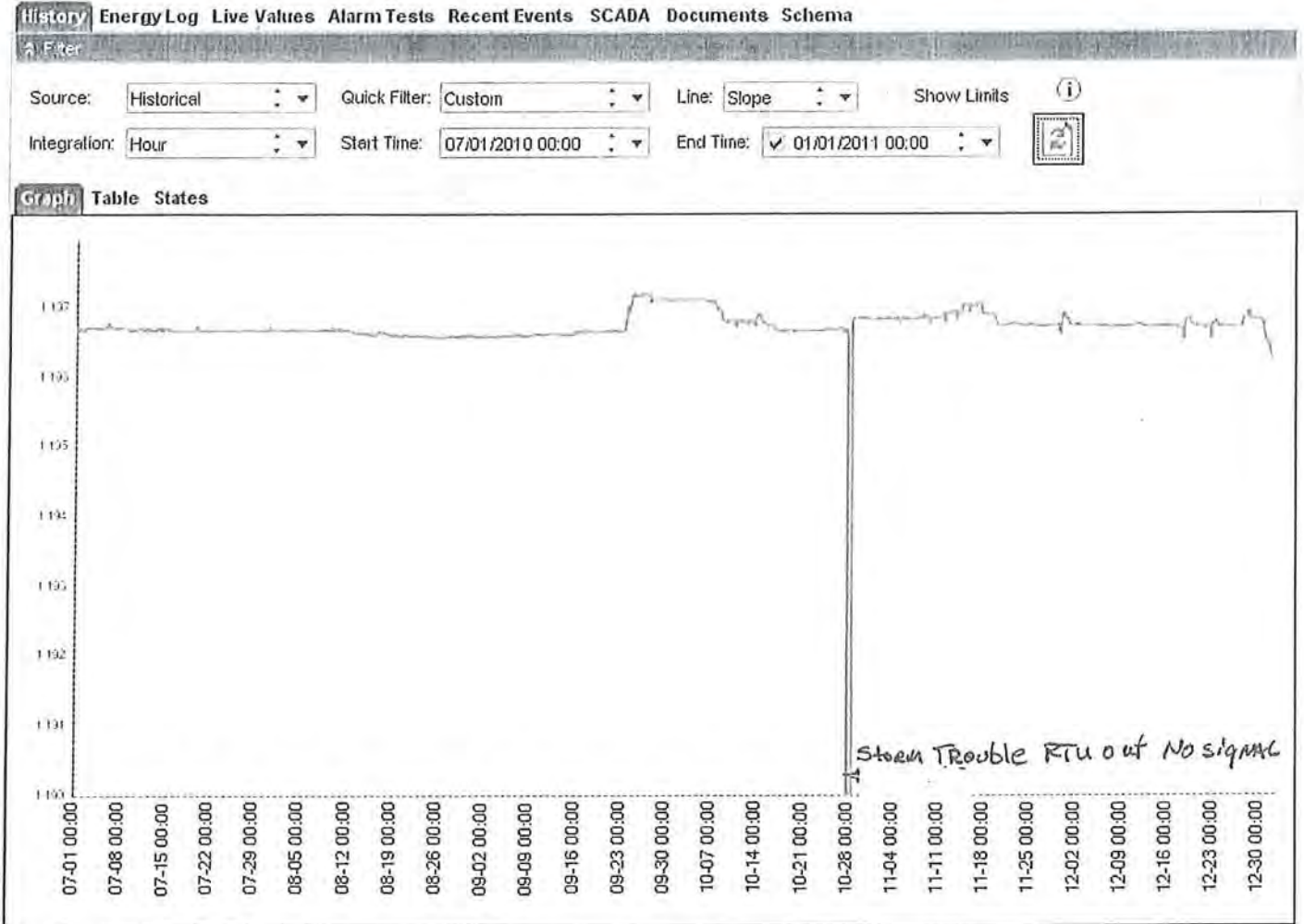
# Hoist Flow Data Ferc Project 10855



# Point Info - UPPCO-MCLD: Pond Elevation *last 6 months*



### Point Info - UPPCO-MCLD: Pond Elevation *2nd 6 months*



### Point Info - UPPCO-MCL: UPP MCCLURE GEN TOTAL CFS *1st 6 months*

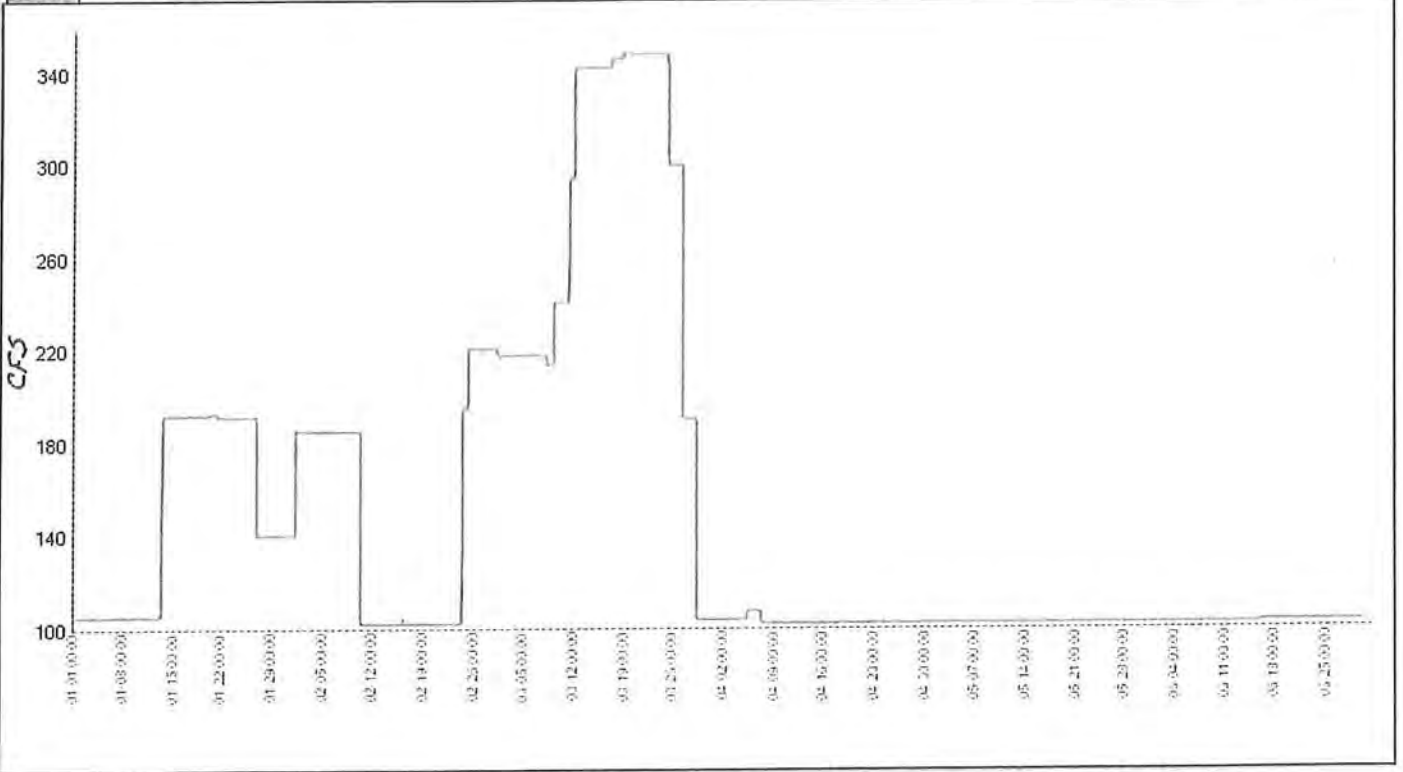
History Energy Log Live Values Alarm Tests Recent Events Calculation SCADA Documents Schema

Filter

Source:  Quick Filter:  Line:   Show Limits (i)

Integration:  Start Time:  End Time:  07/01/2010 00:00 (P)



Graph Table States



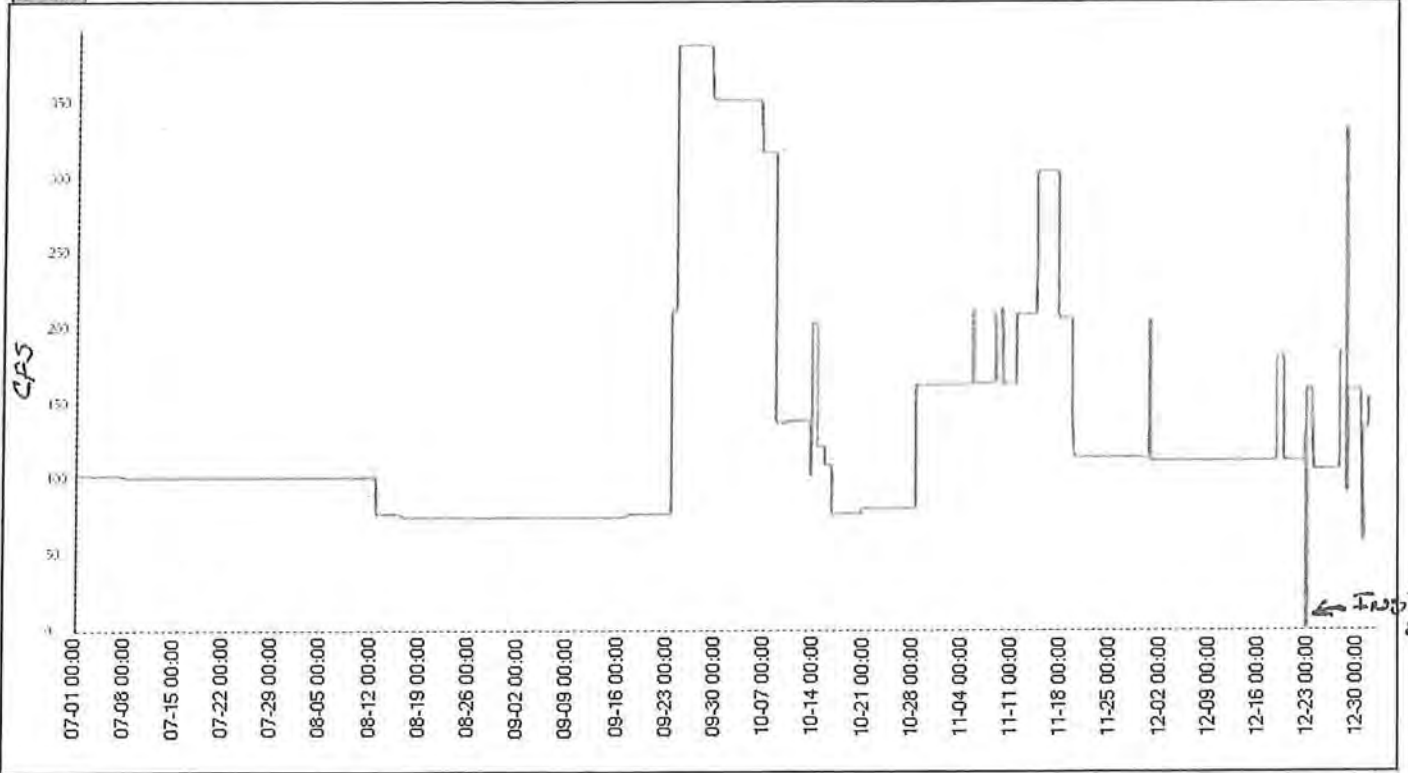
# Point Info - UPPCO-MCL: UPP MCCLURE GEN TOTAL CFS *2nd 6 months*

History Energy Log Live Values Alarm Tests Recent Events Calculation SCADA Documents Schema

Filter

Source:  Quick Filter:  Line:  Show Limits   
Integration:  Start Time:  End Time:   

Graph Table States



## Appendix 2

### Summary of Deviations

## Summary of Deviations for the Dead River Project FERC Project No. 10855

Project	Date	Deviation	Reason
Hoist	2/25/2010	Below End of Month Min Elevation	Min Release exceeded Inflow and Requested Lower Min Pond Elevation from Agencies
Hoist	4/3/2010	Returned above Month Min Elevation	Spring Runoff
Hoist	5/29/2010	Below Pond Min Elevation	Min Release exceeded inflow and requested Dry Year Consultation
Hoist	6/26/2010	Returned to required Min Elevation	Variance Filed
Hoist	9/16/2010	Min Flow from Powerhouse below Min	Generator voltage Regulator fault
Hoist	10/10/2010	Min Flow from Powerhouse below Min	Transmission Line Trip
Hoist	10/19/2010	Min Flow from Powerhouse below Min	Transmission Line Trip
Hoist	10/27/2010	Min Flow from Powerhouse below Min	Transmission Line Trip
Silver Lake	5/3/2010	Min Flow below end of Month	Consultation with Agencies - maintain run-of -river scenario to maintain pond elevation

Copy of FERC Correspondence attached



Upper Peninsula Power Company  
700 North Adams Street  
P.O. Box 19001  
Green Bay, WI 54307-9001  
www.uppc.com

March 3, 2010

FERC Project No. 10855  
NATDAM No. MI00175

Ms. Kimberly D. Bose, Secretary  
The Federal Energy Regulatory Commission  
888 First Street NE  
Washington, DC 20426

Dear Secretary Bose:

Hoist Hydroelectric Project  
Article 402 Planned Deviation of Reservoir Elevation and Minimum Elevation

In accordance with Article 402 of the Order Issuing License for the Hoist Hydroelectric Project dated October 4, 2002, Upper Peninsula Power Company (UPPCO) is required to "strive to operate the existing project facilities to achieve the start of month target elevations". Storage basin elevations may also be modified for short periods upon mutual agreement among the licensee, the Michigan Department of Environmental Quality (MDEQ), the Michigan Department of Natural Resources (MDNR) and the U.S. Fish and Wildlife Service (FWS).

In addition, the licensee is to file a deviation report with the Federal Energy Regulatory Commission, the MDEQ, the MDNR and the FWS when pond elevation falls below the minimum level. Please consider this letter as fulfillment of the notification requirement for a planned deviation of reservoir elevation and a minimum elevation deviation.

On Thursday February 25, 2010 the Hoist Reservoir fell below the end of month minimum of 1337.0 ft NGVD because the required minimum flow release of 100 cfs exceeds the inflow to the reservoir for this season.

The agencies (MDEQ, MDNR and FWS) were informed of this event via e-mail on Thursday, February 25, 2010.

No adverse environmental impacts have been observed as a result of the low elevation condition.

In addition, comments on a planned deviation of the reservoir elevation to lower the reservoir in anticipation of the spring runoff and associated construction work at the McClure dam were requested from the agencies.

At McClure, the earthen embankment will be excavated with work progressing on the penstock replacement.



Ms. Kimberly D. Bose  
March 3, 2010  
Page 2 of 2

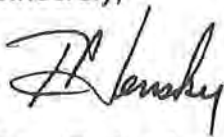
UPPCO requested agency comments on a drawdown of the Hoist Reservoir to an elevation of 1333 ft NGVD with a maximum rate not to exceed 0.3 ft per day. Drawing down the Hoist Reservoir will provide storage for spring runoff such that the reservoir at McClure will not need to rise as much to accommodate the spring runoff. Therefore, the stress on the earthen embankment at McClure during the construction will be reduced by the drawdown of the Hoist Reservoir.

UPPCO obtained mutual agreement among MDNR, and MDEQ on the planned deviation with no comments from the FWS. The documentation of consultation is enclosed.

No adverse environmental impacts are expected as a result of this planned deviation.

If you have any questions regarding this letter, please contact Shawn Puzen at (920) 433-1094 or Robert Meyers at (906) 485-2419.

Sincerely,



Terry P. Jensky  
Vice President - Energy Supply Operations  
for Wisconsin Public Service Corporation

RJM/ebr

Enc. E-mail correspondence from agencies

cc: Mr. Gil Snyder, WPSC - D2	Mr. Keith Moyle, UPPCO - UISC
Mr. Shawn Puzen, IBS - D2	Mr. Gene Mensch, KBIC
Ms. Joan Johaneck, WPSC - D2	Ms. Peggy Harding, FERC (CRO)
Mr. Bob Juidici, WPSC - REG	Mr. Steve Casey, MDEQ
Mr. Ben Trotter, WPSC - REG	Ms. Jessica Mistak, MDNR
Mr. John Myers, WPSC - REG	Ms. Christie Deloria-Sheffield, FWS
Mr. Howard Giesler, WPSC - PUL	Mr. Peter Chapman, FERC (CRO)
Mr. Robert Meyers, UPPCO - UISC	Ms. Patricia Grant, FERC (CRO)



Upper Peninsula Power Company

700 North Adams Street  
P.O. Box 19001  
Green Bay, WI 54307-9001  
www.uppco.com

April 13, 2010

FERC Project No. 10855  
NATDAM No. MI00175

Ms. Kimberly D. Bose, Secretary  
The Federal Energy Regulatory Commission  
888 First Street NE  
Washington, DC 20426

Dear Secretary Bose:

Hoist Hydroelectric Project  
Article 402 Minimum Elevation Return to Normal Operation

In accordance with Article 402 of the Order Issuing License for the Hoist Hydroelectric Project dated October 4, 2002, Upper Peninsula Power Company (UPPCO) is required to "strive to operate the existing project facilities to achieve the start of month target elevations". Storage basin elevations may also be modified for short periods upon mutual agreement among the licensee, the Michigan Department of Natural Resources & Environment (MDNRE) and the U.S. Fish and Wildlife Service (FWS).

In addition, the licensee is to file a deviation report with the Federal Energy Regulatory Commission, the MDNRE, and the FWS when pond elevation falls below the minimum level. The minimum elevation deviation report was submitted to the Commission on March 3, 2010.

As a follow-up to the March 3, 2010, deviation report, on Saturday April 3, 2010, the Hoist Reservoir rose above monthly minimum of 1337.0 ft NGVD. Inflow exceeded normal outflow due to spring runoff.

The agencies (MDNRE and FWS) were informed of returning to normal elevations via e-mail on Tuesday April 13, 2010.

No adverse environmental impacts were seen as a result of this deviation.

If you have any questions regarding this letter, please contact Robert Meyers at (906) 485-2419 or Shawn Puzen at (920) 433-1094.

Sincerely,

A handwritten signature in cursive script, appearing to read "T. Jensky".

Terry P. Jensky  
Vice President - Energy Supply Operations  
for Wisconsin Public Service Corporation

RJM/ebr

cc: Mr. Gil Snyder, WPSC - D2  
Mr. Shawn Puzen, IBS - D2  
Ms. Joan Johaneck, WPSC - D2  
Mr. Bob Juidici, WPSC - REG  
Mr. Ben Trotter, WPSC - REG  
Mr. John Myers, WPSC - REG  
Mr. Howard Giesler, WPSC - PUL  
Mr. Robert Meyers, UPPCO - UISC

Mr. Keith Moyle, UPPCO - UISC  
Mr. Gene Mensch, KBIC  
Ms. Peggy Harding, FERC (CRO)  
Mr. Steve Casey, MDNRE  
Ms. Jessica Mistak, MDNRE  
Ms. Christie Deloria-Sheffield, FWS  
Mr. Peter Chapman, FERC (CRO)  
Ms. Patricia Grant, FERC (CRO)



Upper Peninsula Power Company  
700 North Adams Street  
P.O. Box 19001  
Green Bay, WI 54307-9001  
www.uppco.com

June 10, 2010

FERC Project No. 10855  
NATDAM No. MI00175

Ms. Kimberly D. Bose, Secretary  
The Federal Energy Regulatory Commission  
888 First Street NE  
Washington, DC 20426

Dear Secretary Bose:

Hoist Hydroelectric Project  
Article 402 Minimum Elevation Deviation

In accordance with Article 402 of the Order Issuing License for the Hoist Hydroelectric Project dated October 4, 2002, Upper Peninsula Power Company (UPPCO) is required to "at all times above the minimum elevations and strive to operate the existing project facilities to achieve the start of month target elevations." Storage basin elevations may also be modified for short periods upon mutual agreement among the licensee, Michigan Department of Natural Resources & Environment (MDNRE) and the U.S. Fish and Wildlife Service (FWS).

In addition, the licensee is to file a deviation report with the Federal Energy Regulatory Commission, the MDNRE, and the FWS when pond elevation falls below the minimum level. The minimum elevation deviation occurred on May 29, 2010. The MDNRE, FWS, Keweenaw Bay Indian Community (KBIC), and the Dead River Campers were notified by email on June 1, 2010, the first business day following the event. As of 07:00 EDT on June 1, 2010, the pond elevation was 1338.81 ft NGVD and continues to trend down.

Dry year consultation with the MDNRE, FWS, KBIC, and the Dead River Campers is ongoing because a mutual agreement has not been reached.

No adverse environmental impacts were seen as a result of this deviation.

Ms. Kimberly D. Bose  
June 10, 2010  
Page 2 of 2

If you have any questions regarding this letter, please contact Robert Meyers at (906) 485-2419 or Shawn Puzen at (920) 433-1094.

Sincerely,



Terry P. Jensky  
Vice President - Energy Supply Operations  
for Wisconsin Public Service Corporation

RJM/ebr

cc: Mr. Gil Snyder, WPSC - D2  
Mr. Shawn Puzen, IBS - D2  
Ms. Joan Johaneck, WPSC - D2  
Mr. Bob Juidici, IBS - REG  
Mr. Ben Trotter, IBS - REG  
Mr. John Myers, IBS - REG  
Mr. Howard Giesler, WPSC - PUL  
Mr. Robert Meyers, UPPCO - UISC  
Mr. Keith Moyle, UPPCO - UISC  
Mr. Virgil Schlorke, UPPCO - UISC  
Ms. Peggy Harding, FERC - CRO  
Mr. Peter Chapman, FERC - CRO  
Ms. Patricia Grant, FERC - CRO  
Mr. Gene Mensch, KBIC  
Mr. Steve Casey, MDNRE  
Ms. Jessica Mistak, MDNRE  
Ms. Christie Deloria-Sheffield, FWS



Upper Peninsula Power Company  
700 North Adams Street  
P.O. Box 19001  
Green Bay, WI 54307 9001  
www.uppco.com

July 1, 2010

FERC Project No. 10855  
NATDAM No. MI00175

Ms. Kimberly D. Bose, Secretary  
The Federal Energy Regulatory Commission  
888 First Street NE  
Washington, DC 20426

Dear Secretary Bose:

Hoist Hydroelectric Project  
Article 402 Minimum Elevation Deviation

On June 10, 2010, Upper Peninsula Power Company (UPPCO) reported a deviation of the minimum headwater elevation at the Hoist Reservoir due to dry-year conditions. The minimum reservoir elevation deviation began on May 29, 2010.

On Saturday, June 26, at 08:30 EDT the Hoist Storage Basin rose above the required minimum elevation to an elevation of 1339.1 ft NGVD.

The Michigan Department of Natural Resources and Environment (MDNRE), Fish and Wildlife Service (FWS), Keweenaw Bay Indian Community (KBIC), and the Dead River Campers Inc. (DRCI) were notified by email on June 28th, 2010, the first business day following the event.

Dry year consultation with the MDNRE, FWS, KBIC, and the DRCI is ongoing, as the minimum elevation 1339.5 feet NGVD for July is not expected to be achieved before July 1, 2010. As a result, UPPCO filed for a variance on June 28, 2010.

If you have any questions regarding this letter, please contact Robert Meyers at (906) 485-2419 or Shawn Puzen at (920) 433-1094.

Sincerely,

A handwritten signature in black ink, appearing to read "T. J. Jensky", written over a white background.

Terry P. Jensky  
Vice President - Energy Supply Operations  
for Wisconsin Public Service Corporation

RJM/ebr

cc: Mr. Gil Snyder, WPSC - D2  
Mr. Shawn Puzen, IBS - D2  
Ms. Joan Johaneck, WPSC - D2  
Mr. Bob Juidici, IBS - REG  
Mr. Ben Trotter, IBS - REG  
Mr. John Myers, IBS - REG  
Mr. Howard Giesler, WPSC - PUL  
Mr. Robert Meyers, UPPCO - UISC  
Mr. Keith Moyle, UPPCO - UISC  
Mr. Virgil Schlorke, UPPCO - UISC  
Ms. Peggy Harding, FERC - CRO  
Mr. Peter Chapman, FERC - CRO  
Ms. Patricia Grant, FERC - CRO  
Mr. Gene Mensch, KBIC  
Mr. Steve Casey, MDNRE  
Ms. Jessica Mistak, MDNRE  
Ms. Christie Deloria-Sheffield, FWS  
Mr. James Grundstrum, DRCI  
Mr. Darryl Sundberg, DRCI  
Mr. Pete Dishow, DRCI



Upper Peninsula Power Company

201 North Adams Street  
P.O. Box 19001  
Green Bay, WI 54302-9001

www.uppc.com

FERC Project No. 10855  
NATDAM No. MI00175

July 12, 2010

Ms. Kimberly D. Bose, Secretary  
The Federal Energy Regulatory Commission  
888 First Street NE  
Washington, DC 20426

Dear Secretary Bose:

Hoist Hydroelectric Project  
Article 402 Minimum Elevation Return to Normal Operation

In accordance with Article 402 of the Order Issuing License for the Hoist Hydroelectric Project dated October 4, 2002, Upper Peninsula Power Company (UPPCO) is required to "strive to operate the existing project facilities to achieve the start of month target elevations". Storage basin elevations may also be modified for short periods upon mutual agreement among the licensee, the Michigan Department of Natural Resources & Environment (MDNRE) and the U.S. Fish and Wildlife Service (FWS).

In addition, the licensee is to file a deviation report with the Federal Energy Regulatory Commission, the MDNRE, and the FWS when pond elevation falls below the minimum level. The minimum elevation deviation report was submitted to the Commission on June 10, 2010.

On Wednesday July 7, 2010 at 16:00 hours EDT, the Hoist Reservoir rose above monthly minimum of 1339.5 ft NGVD. Recent rain fall increased the inflow and allowed the pond to recover.

The agencies (MDNRE and FWS) were informed of returning to normal elevations via e-mail on Thursday July 8, 2010.

No adverse environmental impacts were seen as a result of this deviation.

If you have any questions regarding this letter, please contact Robert Meyers at (906) 485-2419 or Shawn Puzen at (920) 433-1094.

Sincerely,

Terry P. Jensky  
Vice President - Energy Supply Operations  
for Wisconsin Public Service Corporation

RJM/ebr

cc: Mr. Gil Snyder, WPSC - D2  
Mr. Shawn Puzen, IBS - D2  
Ms. Joan Johaneck, WPSC - D2  
Mr. Bob Juidici, WPSC - REG  
Mr. Ben Trotter, WPSC - REG  
Mr. John Myers, WPSC - REG  
Mr. Howard Giesler, WPSC - PUL  
Mr. Robert Meyers, UPPCO - UISC  
Mr. Robert Meyers, UPPCO - UISC  
Mr. Keith Moyle, UPPCO - UISC  
Mr. Virgil Schlorke, UPPCO - UISC

Ms. Peggy Harding, FERC (CRO)  
Mr. Peter Chapman, FERC (CRO)  
Ms. Patricia Grant, FERC (CRO)  
Mr. Steve Casey, MDNRE  
Ms. Jessica Mistak, MDNRE  
Ms. Christie Deloria-Sheffield, FWS  
Mr. Gene Mensch, KBIC  
Mr. Pete Dishow, DRCI  
Mr. Darryl Sundberg, DRCI  
Mr. James Grundstrum, DRCI



Upper Peninsula Power Company  
700 North Adams Street  
P.O. Box 19001  
Green Bay, WI 54307-9001  
www.uppco.com

September 30, 2010

FERC Project No. 10855  
NATDAM No. MI00175

**Contains Critical Energy Infrastructure Information – Do Not Release**

Ms. Kimberly D. Bose, Secretary  
The Federal Energy Regulatory Commission  
888 First Street NE  
Washington, DC 20426

Dear Secretary Bose:

Hoist Hydroelectric Project  
Article 403 Minimum Flows

In accordance with Article 403 of the Order Issuing License for the Hoist Hydroelectric Project dated October 4, 2002, the licensee is required to file a deviation report with the Federal Energy Regulatory Commission, Michigan Department of Natural Resources & Environment (MDNRE), U.S. Fish and Wildlife Services (USFWS), and the Dead River Campers Inc. (DRCI) when discharge from the powerhouse falls below the minimum flow requirement. Please consider this letter as fulfillment of the notification requirement for a minimum flow deviation.

On Thursday, September 16, 2010, at 16:00 EDT, the continuous flow of 75 cfs was disrupted following a turbine generator trip at the Hoist powerhouse. The Unit 3 turbine generator tripped after being returned to service following an outage for maintenance work at the intake. The low level outlet was opened at 17:00 EDT re-establishing a minimum flow of 75 cfs. Generation was restored at 14:10 EDT on Friday September 17, 2010, and the project was returned to normal service when the low level outlet was closed at 14:55 EDT. The cause of the outage was due to a faulty voltage regulator that controls the generator voltage. Once a spare regulator was installed, the unit returned to normal service.

No adverse environmental impacts were observed as a result of any of the low flow conditions.

The agencies (MDEQ, MDNR, USFWS and DRCI) were informed of this event via e-mail on Friday, September 17, 2010.

Ms. Kimberly D. Bose  
September 30, 2010  
Page 2 of 2

If you have any questions regarding this letter, please contact Robert Meyers at (906) 485-2419 or Virgil Schlorke at (906) 485-2465.

Sincerely,



Terry P. Jensky  
Vice President - Energy Supply Operations  
for Wisconsin Public Service Corporation

RJM/ebr

cc: Mr. Gil Snyder, WPSC - D2  
Mr. Shawn Puzen, IBS - D2  
Ms. Joan Johaneck, WPSC - D2  
Mr. Bob Juidici, IBS - REG  
Mr. Ben Trotter, IBS - REG  
Mr. John Myers, IBS - REG  
Mr. Howard Giesler, WPSC - PUL  
Mr. Keith Moyle, UPPCO - UISC  
Mr. Robert Meyers, UPPCO - UISC  
Mr. Virgil Schlorke, UPPCO - UISC  
Ms. Peggy Harding, FERC - CRO  
Mr. Steve Casey, MDNRE  
Ms. Jessica Mistak, MDNRE  
Ms. Christie Deloria-Sheffield, USFWS  
Mr. James Grundstrum, DRCI





Upper Peninsula Power Company  
700 North Adams Street  
P.O. Box 19001  
Green Bay, WI 54307-9001  
www.uppc.com

October 29, 2010

FERC Project No. 10855  
NATDAM No. MI00175

**Contains Critical Energy Infrastructure Information – Do Not Release**

Ms. Kimberly D. Bose, Secretary  
The Federal Energy Regulatory Commission  
888 First Street NE  
Washington, DC 20426

Dear Secretary Bose:

Hoist Hydroelectric Project  
Article 403 Minimum Flows

In accordance with Article 403 of the Order Issuing License for the Hoist Hydroelectric Project dated October 4, 2002, the licensee is required to file a deviation report with the Federal Energy Regulatory Commission, Michigan Department of Natural Resources & Environment (MDNRE), U.S. Fish and Wildlife Services (USFWS), and the Dead River Campers Inc. (DRCI) when discharge from the powerhouse falls below the minimum flow requirement. Please consider this letter as fulfillment of the notification requirement for a minimum flow deviation.

On Sunday October 10, 2010, at 15:15 EDT, the continuous flow of 75 cfs was disrupted following a turbine generator trip at the Hoist powerhouse. The Unit 3 turbine generator tripped when the transmission line tripped. The transmission line tripped when a bird flew into the substation causing the breaker to open. Once the dead bird (a raven) was removed, the breaker was returned to service. The low level outlet was opened at 16:30 EDT re-establishing a minimum flow of 75 cfs. Generation was restored at 17:40 EDT and the project was returned to normal service when the low level outlet was closed at 18:40 EDT. No adverse environmental impacts were observed as a result of any of the low flow conditions.

On Tuesday October 19<sup>th</sup>, 2010, at 07:00 EDT, the continuous flow of 75 cfs was disrupted following a turbine generator trip at the Hoist powerhouse. The Unit 3 turbine generator tripped when a fault occurred on the transmission line. Several dead trees hit the line causing the trip. Unit 2 was placed on line at 07:48 EDT re-establishing the minimum flow of 75 cfs. No adverse environmental impacts were observed as a result of any of the low flow conditions.

The agencies (MDEQ, MDNR, USFWS and DRCI) were informed of both events via e-mail.

Ms. Kimberly D. Bose  
October 29, 2010  
Page 2 of 2

If you have any questions regarding this letter, please contact Robert Meyers at (906) 485-2419 or Virgil Schlorke at (906) 485-2465.

Sincerely,

Handwritten signature of Terry P. Jensky in black ink, with the word "for" written below the signature.

Terry P. Jensky  
Vice President - Energy Supply Operations  
for Wisconsin Public Service Corporation

RJM/cmw

cc: Mr. Gil Snyder, WPSC - D2  
Mr. Shawn Puzen, IBS - D2  
Ms. Joan Johaneck, WPSC - D2  
Mr. Bob Juidici, IBS - D2  
Mr. Ben Trotter, IBS - D2  
Mr. John Myers, IBS - D2  
Mr. Howard Giesler, WPSC - PUL  
Mr. Keith Moyle, UPPCO - UISC

Mr. Robert Meyers, UPPCO - UISC  
Mr. Virgil Schlorke, UPPCO - UISC  
Ms. Peggy Harding, FERC - CRO  
Mr. Steve Casey, MDNRE  
Mr. Chris Freiburger, MDNRE  
Ms. Christie Deloria-Sheffield, USFWS  
Mr. James Grundstrum, DRCI



Upper Peninsula Power Company  
700 North Adams Street  
P.O. Box 19001  
Green Bay, WI 54307-9001  
www.uppc.com

November 5, 2010

FERC Project No. 10855  
NATDAM No. MI00175

**Contains Critical Energy Infrastructure Information – Do Not Release**

Ms. Kimberly D. Bose, Secretary  
The Federal Energy Regulatory Commission  
888 First Street NE  
Washington, DC 20426

Dear Secretary Bose:

Hoist Hydroelectric Project  
Article 403 Minimum Flows

In accordance with Article 403 of the Order Issuing License for the Hoist Hydroelectric Project dated October 4, 2002, the licensee is required to file a deviation report with the Federal Energy Regulatory Commission, Michigan Department of Natural Resources & Environment (MDNRE), U.S. Fish and Wildlife Services (USFWS), and the Dead River Campers Inc. (DRCI) when discharge from the powerhouse falls below the minimum flow requirement. Please consider this letter as fulfillment of the notification requirement for a minimum flow deviation.

On Wednesday October 27, 2010, at 01:15 EDT, the continuous flow of 75 cfs was disrupted following a turbine generator trip at the Hoist powerhouse. The Unit 3 turbine generator tripped when the transmission line tripped. High winds caused numerous trees located off the right-of-way to fall into the lines. The low level outlet was opened at 02:55 EDT re-establishing a minimum flow of 75 cfs. Several attempts were made to restore the unit to service but failed due to the severe weather. Unit 3 was restored to service on Thursday October 28, 2010, at 08:19 EDT. With the number of outages and other severe weather conditions, the Low Level Outlet (LLO) remained open and was closed on October 29, 2010, at 10:30 EDT. No adverse environmental impacts were observed as a result of any of the low flow conditions.

The agencies (MDEQ, MDNR, USFWS and DRCI) were informed of the event via e-mail.

Ms. Kimberly D. Bose  
November 5, 2010  
Page 2 of 2

If you have any questions regarding this letter, please contact Robert Meyers at (906) 485-2419 or Virgil Schlorke at (906) 485-2465.

Sincerely,

Handwritten signature of Terry P. Jensky in cursive script.

Terry P. Jensky  
Vice President - Energy Supply Operations  
for Wisconsin Public Service Corporation

RJM/ebr

cc:	Mr. Gil Snyder, WPSC - D2	Mr. Robert Meyers, UPPCO - UISC
	Mr. Shawn Puzen, IBS - D2	Mr. Virgil Schlorke, UPPCO - UISC
	Ms. Joan Johaneck, WPSC - D2	Ms. Peggy Harding, FERC - CRO
	Mr. Bob Juidici, IBS - D2	Mr. Steve Casey, MDNRE
	Mr. Ben Trotter, IBS - D2	Mr. Chris Freiburger, MDNRE
	Mr. John Myers, IBS - D2	Ms. Christie Deloria-Sheffield, USFWS
	Mr. Howard Giesler, WPSC - PUL	Mr. James Grundstrum, DRCI
	Mr. Keith Moyle, UPPCO - UISC	



Upper Peninsula Power Company

700 North Adams Street  
P.O. Box 19001  
Green Bay, WI 54307-9001

www.uppc.com

May 7, 2010

FERC Project No. 10855  
NATDAM No. MI00197

Ms. Kimberly D. Bose, Secretary  
The Federal Energy Regulatory Commission  
888 First Street NE  
Washington, DC 20426

Dear Secretary Bose:

Dead River Hydroelectric Project - Silver Lake Development  
Article 403 Minimum Flow Deviation

In accordance with Article 402 of the Order Issuing License for the Hoist Hydroelectric Project dated October 4, 2002, and the Order Modifying and Approving Operations Monitoring Plan under Article 405 dated March 11, 2010, Upper Peninsula Power Company (UPPCO) is required to "maintain minimum flows at each of the three Dead River Project developments for the protection and enhancement of water quality, recreation, and aquatic resources in the Dead River as described below" (1) Maintain minimum flows from the Silver Lake dam for the month of May at 20 cfs.

Consultation during adverse conditions can be held with the Michigan Department of Natural Resources & Environment (MDNRE), Dead River Campers Inc. (DRCI), Keweenaw Bay Indian Community (KBIC), and U.S. Fish and Wildlife Service (FWS). In anticipation of the flow change in May, the MDEQ, MDNR, DRCI, KBIC and the FWS were consulted. The consultation was completed via e-mail.

The Michigan Department of Natural Resources and Environment (MDNRE) responded for the former MDEQ/ MDNR. The DRCI responded with a request to reduce the minimum flow from Hoist, and no replies were received from the others. The agreed upon plan was to maintain a run-of-river scenario trying to maintain a pond elevation.

On Saturday May 1, 2010, the outlet flow from Silver Lake was 18 cfs. On Monday May 3, the flow was reduced to 8 cfs. The MDNRE, KBIC and the FWS were notified of these conditions on Monday May 3, 2010, by email. The DRCI was notified by email on May 6, 2010. UPPCO is still reviewing the DRCI request for minimum flow reductions at Hoist, and consultation will continue at least weekly with the MDNRE, KBIC, DRCI and the FWS, based on the extreme dry conditions.

No adverse environmental impacts were seen as a result of this deviation.

Ms. Kimberly D. Bose  
May 7, 2010  
Page 2 of 2

If you have any questions regarding this letter, please contact Robert Meyers at (906) 485-2419 or Shawn Puzen at (920) 433-1094.

Sincerely,



Terry P. Jensky  
Vice President - Energy Supply Operations  
for Wisconsin Public Service Corporation

RJM/ebr

cc: Mr. Gil Snyder, WPSC - D2                      Mr. Keith Moyle, UPPCO - UISC  
Mr. Shawn Puzen, IBS - D2                      Ms. Peggy Harding, FERC - CRO  
Ms. Joan Johaneck, WPSC - D2                Mr. Peter Chapman, FERC - CRO  
Mr. Bob Juidici, IBS - REG                      Ms. Patricia Grant, FERC - CRO  
Mr. Ben Trotter, IBS - REG                      Mr. Gene Mensch, KBIC  
Mr. John Myers, IBS - REG                      Mr. Steve Casey, MDNRE  
Mr. Howard Giesler, WPSC - PUL              Ms. Jessica Mistak, MDNRE  
Mr. Robert Meyers, UPPCO - UISC            Ms. Christie Deloria-Sheffield, FWS



Upper Peninsula Power Company  
700 North Adams Street  
P.O. Box 19601  
Green Bay, WI 54307-9001  
www.uppc.com

May 24, 2010

FERC Project No. 10855  
NATDAM No. MI00197

Ms. Kimberly D. Bose, Secretary  
The Federal Energy Regulatory Commission  
888 First Street NE  
Washington, DC 20426

Dear Secretary Bose:

Dead River Hydroelectric Project - Silver Lake Development  
Article 403 Minimum Flow Deviation

Per the Order Modifying and Approving Operations Monitoring Plan under Article 405 dated March 11, 2010, Upper Peninsula Power Company (UPPCO) is required to "maintain minimum flows at each of the three Dead River Project developments for the protection and enhancement of water quality, recreation, and aquatic resources in the Dead River as described below" (1) Maintain minimum flows from the Silver Lake dam for the month of May at 20 cfs.

In accordance with Article 402 of the Order Issuing License for the Dead River Hydroelectric Project dated October 4, 2002, Consultation during adverse conditions can be held with the Michigan Department of Natural Resources & Environment (MDNRE), Dead River Campers Inc. (DRCI), Keweenaw Bay Indian Community (KBIC), and U.S. Fish and Wildlife Service (FWS). In anticipation of the flow change in May, the MDNRE, DRCI, KBIC and the FWS were consulted. The consultation was completed via e-mail.

The Michigan Department of Natural Resources & Environment (MDNRE) responded in agreement for the former MDEQ/MDNR. The DRCI responded with a request to reduce the minimum flow from Hoist, and no replies were received from the others. The agreed upon plan was to maintain a run-of-river scenario trying to maintain a pond elevation.

On Monday, May 10, 2010, the outlet flow from Silver Lake was increased to the minimum of 20 cfs following snow fall over the weekend. On Saturday May 15<sup>th</sup> the flow was again reduced to 8 cfs when inflow could not match the outflow.

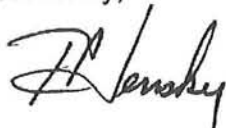
Ms. Kimberly D. Bose  
May 24, 2010  
Page 2 of 2

The MDNRE, KBIC, DRCI and the FWS were notified of these changes on Monday May 10, 2010, and Monday May 17, 2010, by e-mail. Consultation will continue at least weekly with the MDNRE, KBIC, DRCI and the FWS, based on the extreme dry conditions.

No adverse environmental impacts were seen as a result of this deviation.

If you have any questions regarding this letter, please contact Robert Meyers at (906) 485-2419 or Shawn Puzen at (920) 433-1094.

Sincerely,



Terry P. Jensky  
Vice President - Energy Supply Operations  
for Wisconsin Public Service Corporation

RJM/ebr

cc: Mr. Gil Snyder, WPSC - D2  
Mr. Shawn Puzen, IBS - D2  
Ms. Joan Johaneck, WPSC - D2  
Mr. Bob Juidici, IBS - REG  
Mr. Ben Trotter, IBS - REG  
Mr. John Myers, IBS - REG  
Mr. Howard Giesler, WPSC - PUL  
Mr. Robert Meyers, UPPCO - UISC  
Mr. Virgil Schlorke, UPPCO - WRP  
Mr. Keith Moyle, UPPCO - UISC  
Ms. Peggy Harding, FERC - CRO  
Mr. Peter Chapman, FERC - CRO  
Ms. Patricia Grant, FERC - CRO  
Mr. Gene Mensch, KBIC  
Mr. Steve Casey, MDNRE  
Ms. Jessica Mistak, MDNRE  
Ms. Christie Deloria-Sheffield, FWS



## Appendix 3

### Summary of Gate and Valve Openings



## Appendix 4

### Documentation of Consultation

Document Content(s)

20110225 DRV out.PDF.....1-2

20110225 DRV out attach a.PDF.....3-67