



**Upper Peninsula Power Company**

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

February 28, 2013

FERC Project No. 10855  
NATDAM Nos. MI00197, MI00175  
and 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  
2012 Annual Report - Operation Monitoring Plan & Report of Deviations Less Than Sixty Minutes

The Order Amending License for the Dead River Hydroelectric Project (FERC Project No. 10855) dated September 1, 2011 and the Order Modifying and Approving Article 405 Operations Monitoring Plan dated March 11, 2010 both require Upper Peninsula Power Company (UPPCO) to submit annual Operation Monitoring Reports.

UPPCO is required by the September 1, 2011 Order to provide the annual report to the resource agencies by January 31 each year and to the Commission by February 28 of each year.

UPPCO is also required by the March 11, 2010 Order to provide the annual report after a 30-day comment period and then to the Commission by February 28 of each year.

Furthermore, the 2011 Order's annual report requires UPPCO to submit all deviations less than 60 minutes that did not result in the observation or reporting of any negative environmental effects.

Consistent with the requirements of the 2011 and 2010 Orders, the following information has also been enclosed at this time to fulfill the annual reporting requirements:

- A summary of reservoir surface elevations and flow data;
- Operational data necessary to determine compliance with the operating range requirement;
- A summary of all deviation(s) from required flows and reservoir elevations that occurred during the year (This includes the deviations less than 60 minutes as required by the 2011 Order);
- A description of any corrective measures implemented during the course of the year, and measures implemented or proposed to improve future compliance (if necessary) or a description of any corrective measures implemented at the time of the occurrence and the measures implemented or proposed to ensure that similar incidents do not recur;
- A record of flushing flows that occurred in the McClure Bypass reach indicating when and if wood debris was transported downstream during the event;
- Summary of all gate and valve openings;
- Documentation of consultation on the draft report.

Ms. Kimberly D. Bose

February 28, 2013

Page 2 of 2

The report, to the extent possible, identifies the cause, severity and duration of the incidents, and any observed or reported adverse environmental impacts resulting from the incidents,

During 2012, there was a one-week period when the McClure substation was out-of-service for upgrades. As a result, flushing flows (the entire river flow) were passed over the spillway during this event. At times, the flows exceeded the 100 cfs level.

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

Sincerely,



Terry P. Jensky  
Vice President - Generation Assets  
for Wisconsin Public Service Corporation

VES/ebr

Enc: Appendix 1 - UPPCO Agency Correspondence  
Appendix 2 - UPPCO Annual Deviation Report

cc: Mr. Gil Snyder, WPSC - D2  
Mr. Shawn Puzen, IBS - D2  
Ms. Joan Johaneck, WPSC - D2  
Mr. Dave Giesler, IBS - D2  
Mr. Ben Trotter, IBS - D2  
Mr. John Myers, IBS - D2  
Mr. Keith Moyle, UPPCO - UISC  
Mr. Virgil Schlorke, UPPCO - UISC  
Mr. Robert Meyers, UPPCO - UISC  
Mr. John Zygaj, FERC - CRO  
Ms. Patricia Grant, FERC - CRO

## Appendix 1

### Documentation of Consultation



**Upper Peninsula Power Company**

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

[www.uppco.com](http://www.uppco.com)

January 25, 2013

FERC Project No. 10855

Mr. Kyle Kruger – MDNR  
Mr. Burr Fisher – USFWS  
Mr. William Taft - MDEQ

Dear Agency Representative(s):

**Dead River Hydroelectric Project**  
**2012 Annual Report - Operation Monitoring Plan & Report of Deviations Less Than Sixty Minutes**

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- A record of flushing flows that occurred in the McClure Bypass reach indicating when and if wood debris was transported downstream during the event;
- Summary of all gate and valve openings;
- Documentation of consultation on the draft report.

The report, to the extent possible, identifies the cause, severity, and duration of the incidents, and any observed or reported adverse environmental impacts resulting from the incidents,

During 2012, there was a one week period when the McClure substation was out of service for upgrades. As a result, flushing flows (the entire river flow) were passed over the spillway during this event. At times, the flows exceeded the 100 cfs level.

Please provide your comments on the annual report no later than February 24, 2013. Should you have any questions, please do not hesitate to contact me at (906) 485-2419.

Sincerely,

*Robert J. Meyers*

Robert J. Meyers  
Project Manager – Regional Generation

## Appendix 2

### Annual Report

Point Info - UPPCO-SLK: Headwater Elevation

Silver Lake  
POND ELEVATION

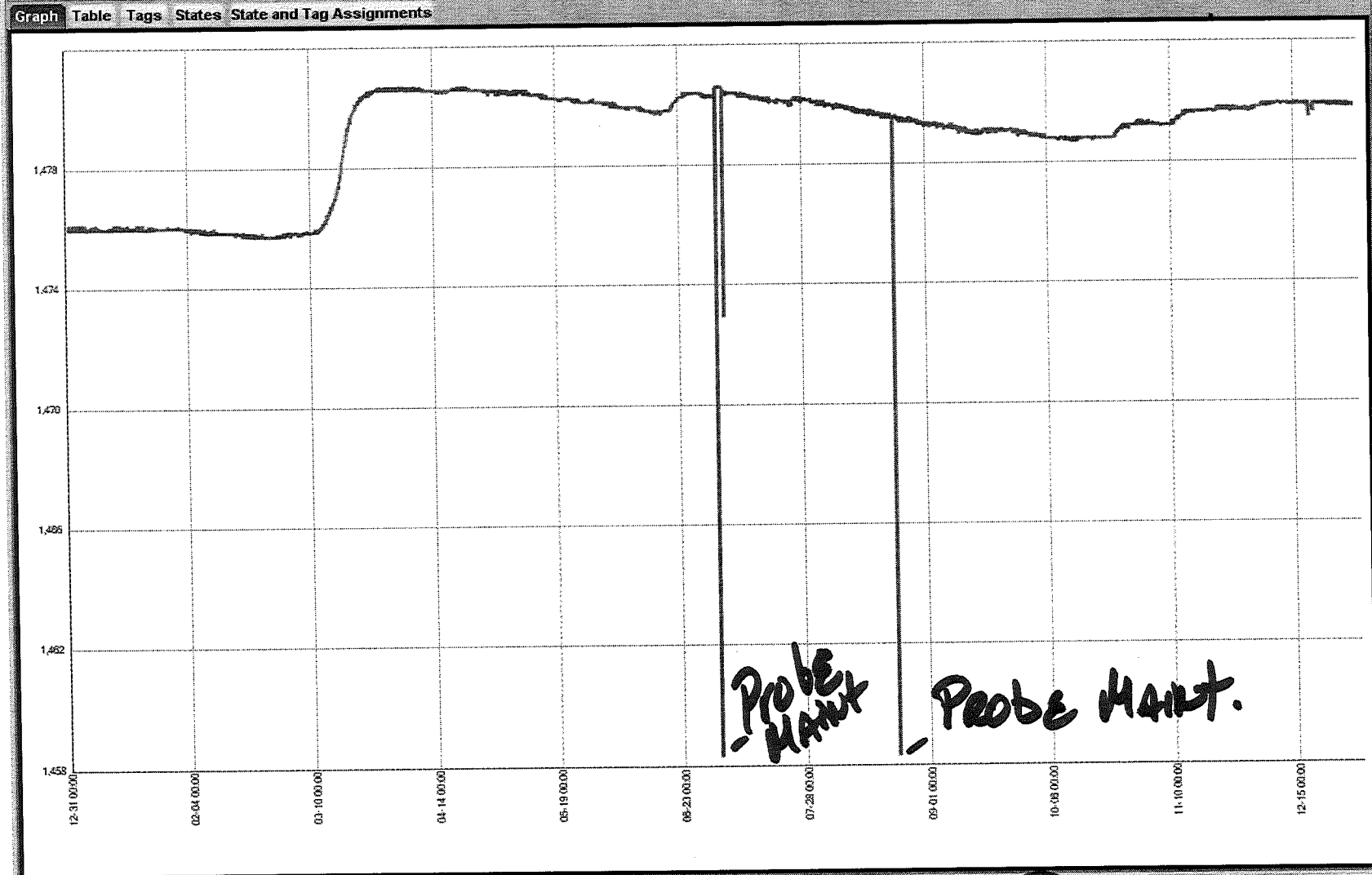
History Live Values Alarm Config Recent Events SCADA Documents Schema

Filter

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

Integration: Hour Start Time: 12/31/2011 23:59 End Time:  01/01/2013 00:00

Shortcuts: Last Hour Last 4 Hrs Last 8 Hrs Last 24 Hrs Cur Day Cur Gas Day Last 7 Days Last 14 Days Last 30 Days Prev Next



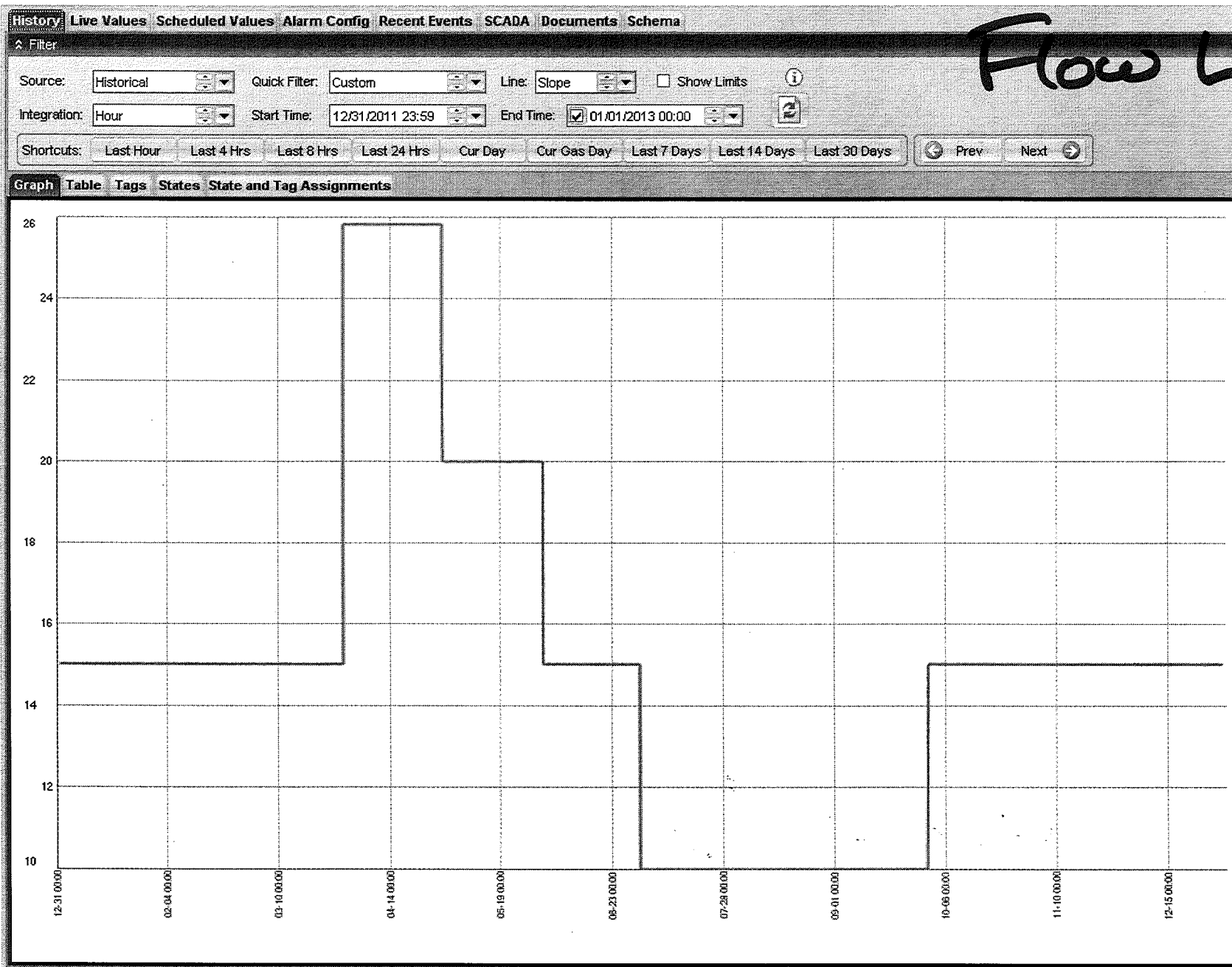
PROBE MAINT. PROBE MAINT.

FERC Project 10855

20130228-5229 FERC PDF (Unofficial) 2/28/2013 2:17:55 PM

Point Info - UPPCO-SLK: Total Flow

SILVER LAKE  
Flow LLO



1/14/2013 11:42 AM

FERC Project 10855



# HOIST PLANT

## Flow

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

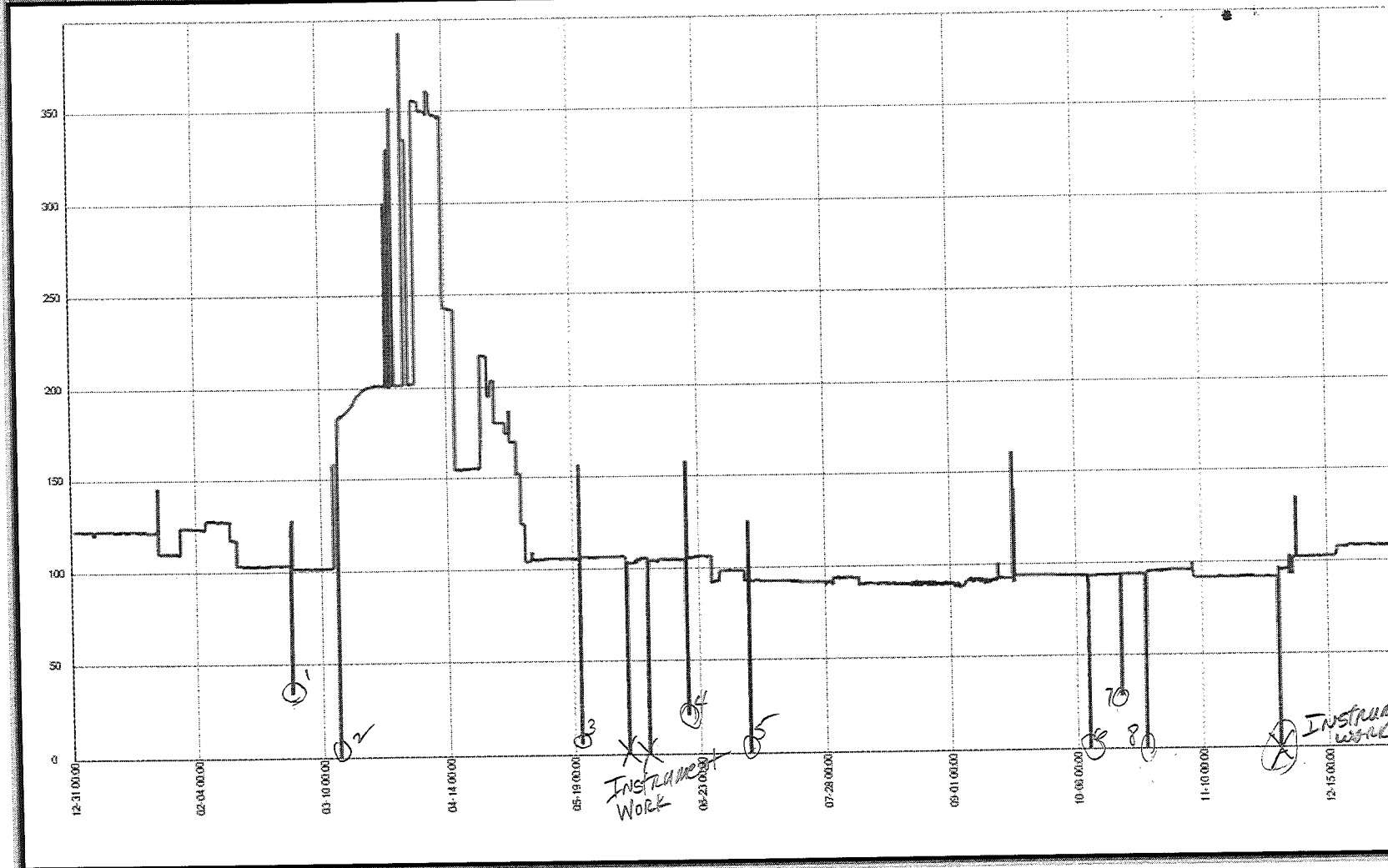
Filter

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

Integration: Hour Start Time: 12/31/2011 23:59 End Time: 01/01/2013 00:00

Shortcuts: Last Hour Last 4 Hrs Last 8 Hrs Last 24 Hrs Cur Day Cur Gas Day Last 7 Days Last 14 Days Last 30 Days Prev Next

Graph Table Tags States State and Tag Assignments

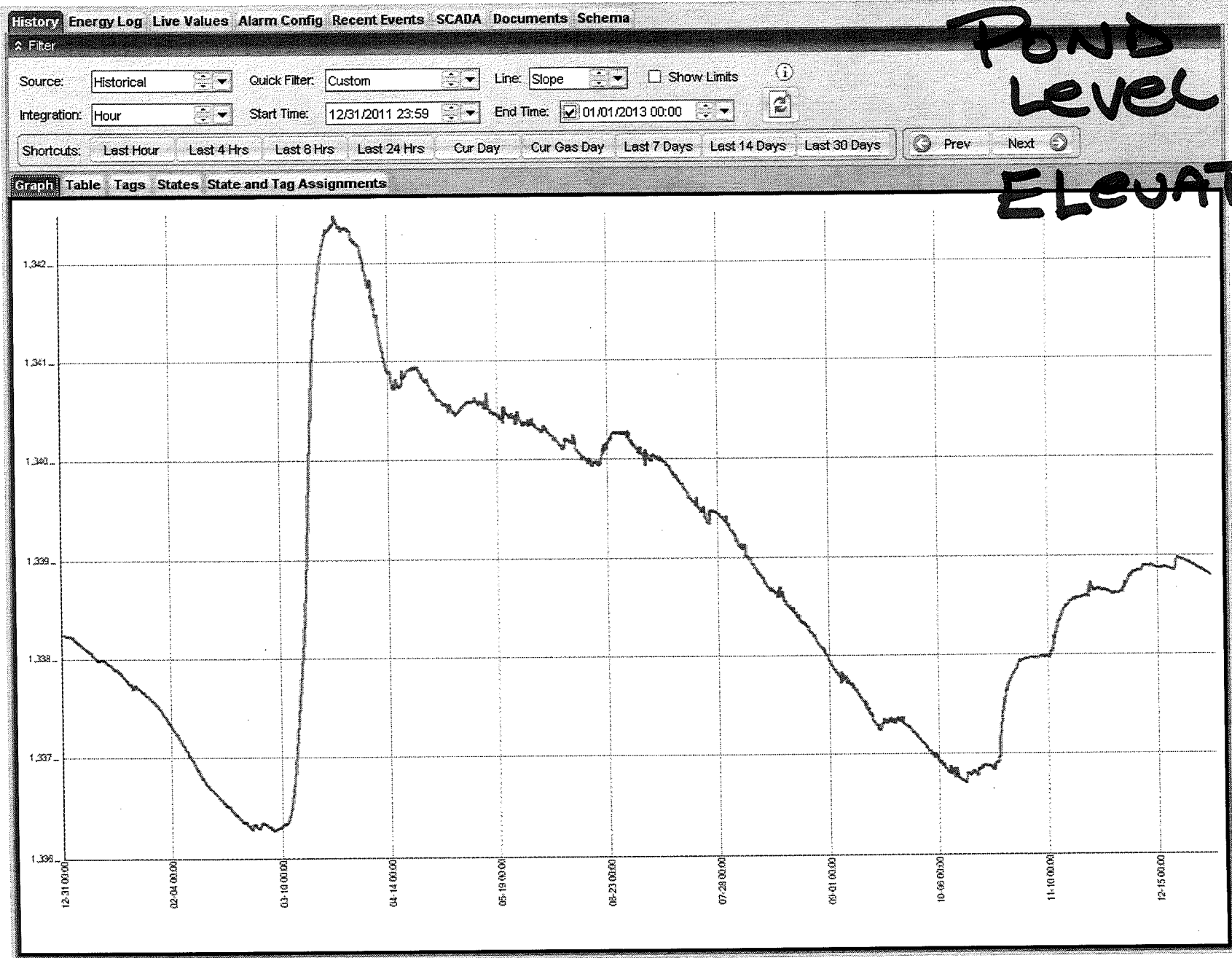


1/14/2013 11:41 AM

# FERC Project 10855

Point Info - UPPCO-HST: Headwater Elevation

Hoist  
POND  
LEVEL  
ELEVATION



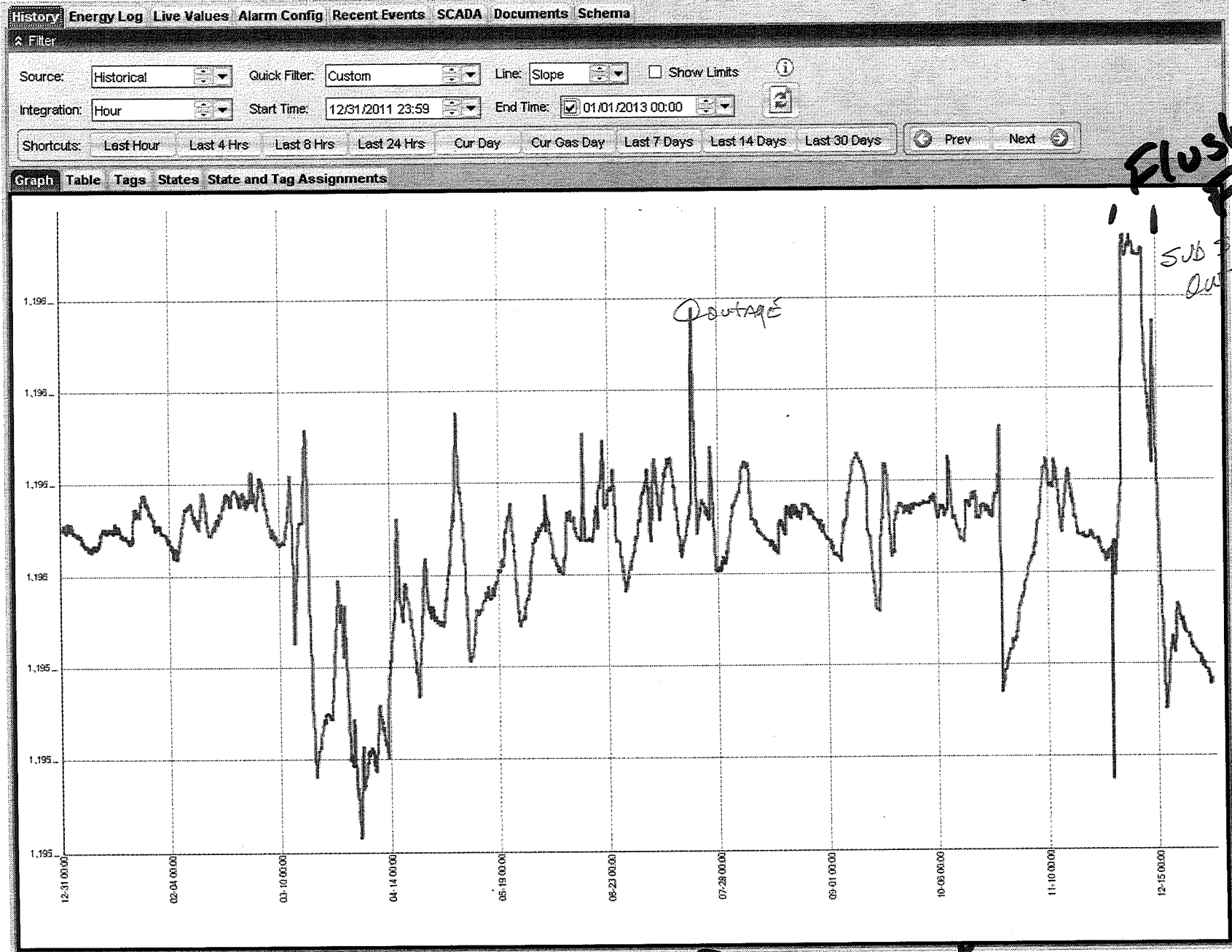
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FERC Project 10855

20130228-5229 FERC PDF (Unofficial) 2/28/2013 2:17:55 PM

# McClure Headwater Elevation - Pond

Point Info - UPPCO-MCLD: Headwater Elevation



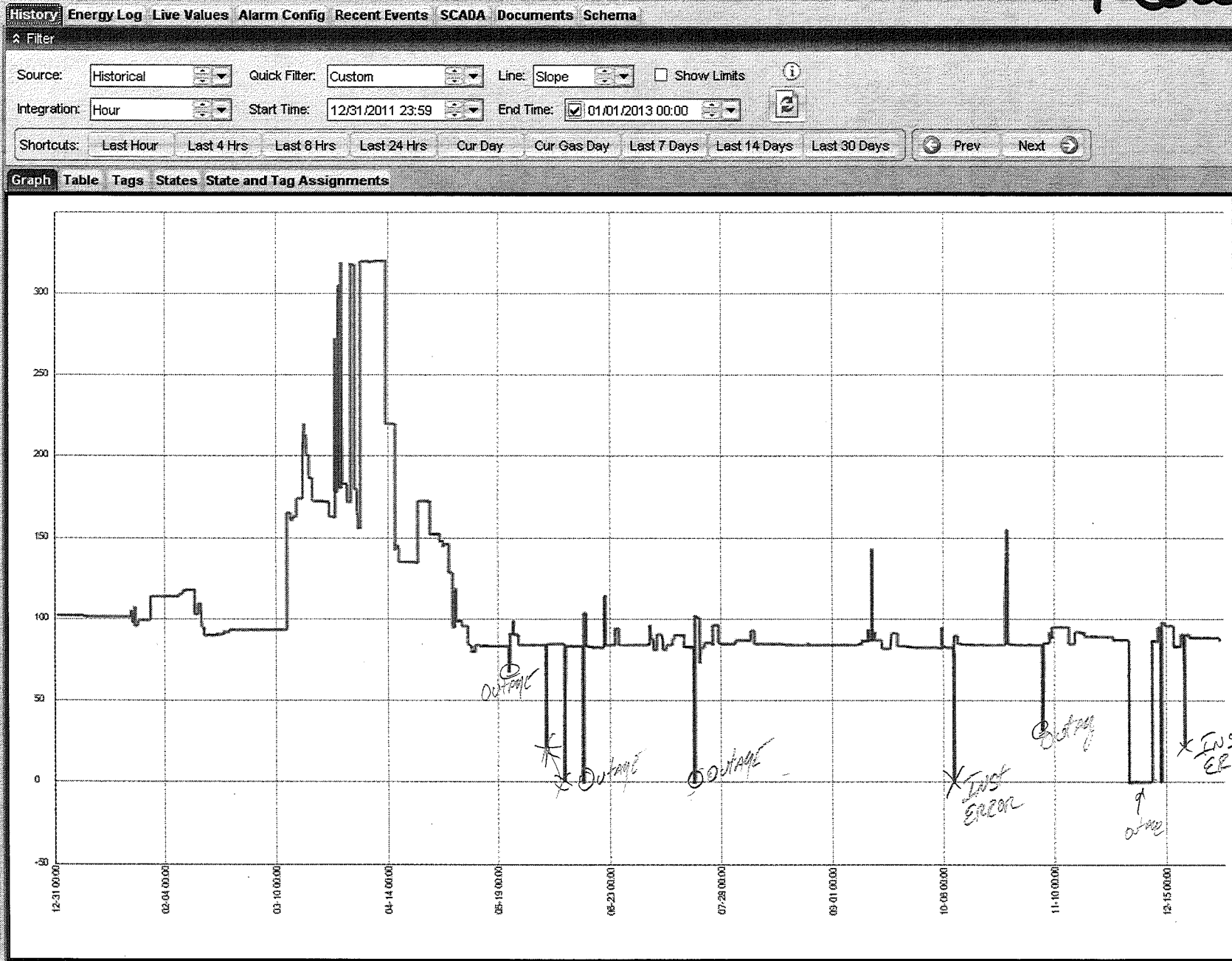
1/14/2013 11:44 AM

## FERC Project # 10855

20130228-5229 FERC PDF (Unofficial) 2/28/2013 2:17:55 PM

McClure Penstock  
Flow - EPS

Point Info - UPPCO-MCL: Powerhouse Penstock Flow



20130228-5229 FERC PDF (Unofficial) 2/28/2013 2:17:55 PM

1/14/2013 11:45 AM

FERC Project # 10855

## Appendix 2

### Summary of Deviations & Deviation Reports

**Mad River Project FERC Project No. 10855 for 2012**

Project	Date	Deviation < 60 minutes	Reason
McClure	5/22/2012	Less than 80 CFS output from Plant	Mechanical Failure of Governor
McClure	7/21/2012	Less than 80 CFS output from Plant	Governor Feedback Switch
McClure	11/6/2012	Less than 80 CFS output from Plant	Plugged Cooling water line
Hoist	3/1/2012	Less than 100 CFS output from Plant	Transmission Problem Line trip/Storm
Hoist	3/14/2012	Less than 100 CFS output from Plant	Transmission Problem Line Trip/Storm
Hoist	6/19/2012	Less than 100 CFS output from Plant	Transmission Problem Line Trip/Storm
Hoist	7/6/2012	Less than 100 CFS output from Plant	Transmission Problem Line Trip/Low Voltage
Hoist	10/18/2012	Less than 100 CFS output from Plant	Transmission Problem Line Trip/Tree

		Deviations > 60 minutes	
--	--	-------------------------	--

McClure	6/14/2012	Less than 80 CFS output from Plant	Transmission Problem Line Trip/Tree
Hoist/McClure	7/6/2012	Planned Deviation, 100 CFS & 80 CFS	Reduction in Flow from Dry Year
McClure	7/19/2012	Planned Deviation, 80 CFS & Pond Elevation	Work being done in Substation - Planned
Hoist	2/23/2012	End of Month Target Minimum	Low inflow
Hoist	4/13/2012	Planned Deviation Pond Elevation	Low inflow
Hoist	5/20/2012	Less than 100 CFS output from Plant	Transmission Problem Line Trip/Trees

Hoist	6/19/2012	Less than 100 CFS & DO & Temp DS Plant	Transmission Problem Line Trip/Low Flow
Hoist	10/25/2012	Less than 100 CFS output from Plant	Transmission Problem Line Trip/Trees
McClure	12/3/2012	Planned Deviation - Flows & Pond Elevation & Did Flushing Flow in Bypass	Substation Outage - New Equipment
Hoist/McClure	12/5/2012	Reduction in Flows Ended	Dry Year Consultation Over
McClure	12/13/2012	Less than 80 CFS output from Plant	Bearing Cooling Water Problem/Turbine Bearing

CCAT125

Print Date: 01/03/2013

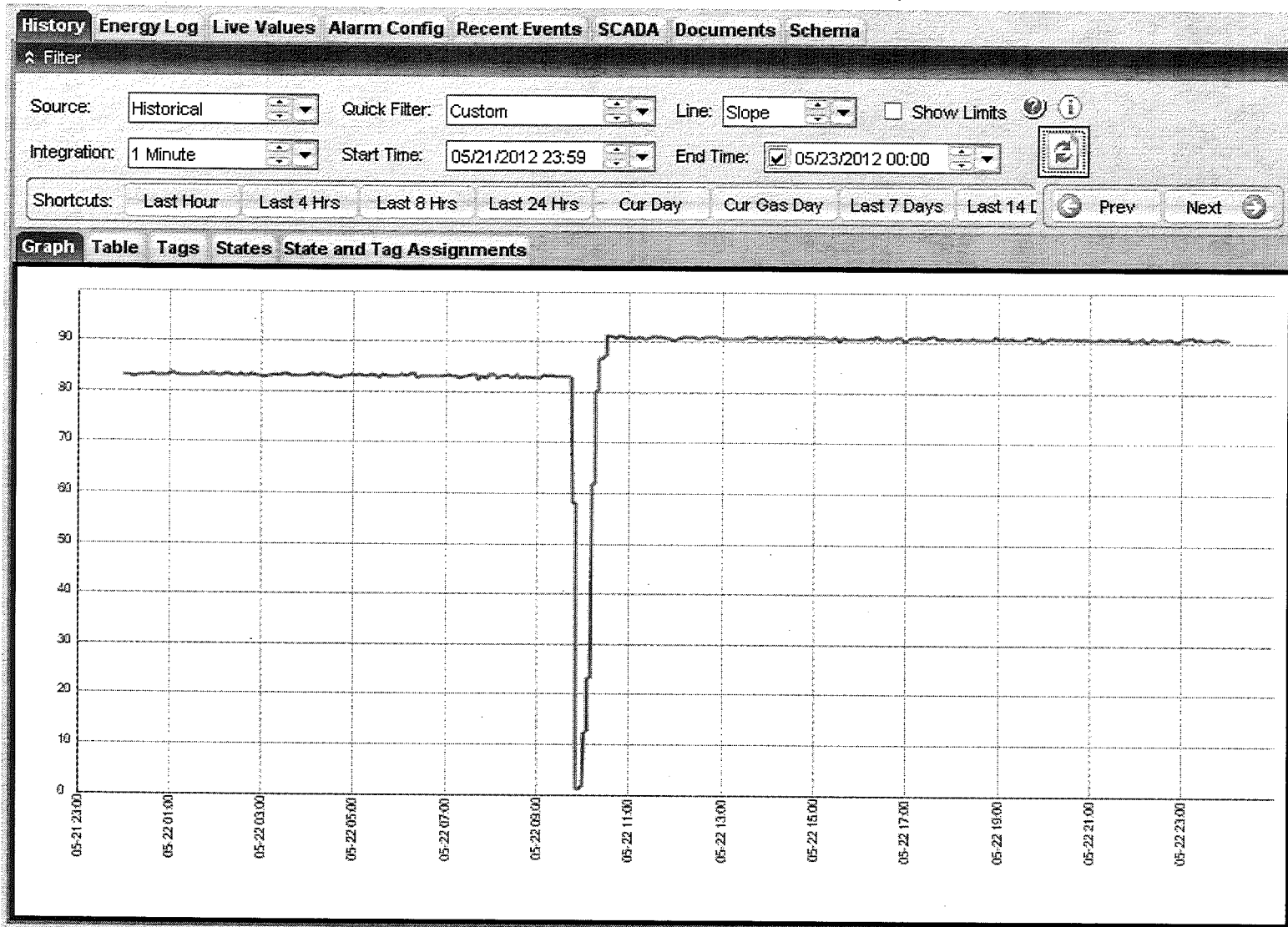
## Non-Conformance Event Record Detail



<b>NC Record Number:</b> NCREG3864		<b>Entity:</b> Regional Generation	
<b>Company - Level 1 - Level 2:</b> UPP-McClure Hydro			
<b>Event Date:</b>	05/22/2012	<b>Discovery Date/Time:</b>	5/22/12 9:47
<b>Event Title:</b>	McClure #2 trip		
<b>Event Details:</b>	Operator was adjusting unit output on the unit and the unit tripped while doing so		
<b>Immediate Action:</b>	Operator put the other unit online		
<b>Recommendations:</b>	n/a		
<b>Potential Causes/Contributors to incident</b>	n/a		
<b>Entered By Name:</b>	David C Paananen	<b>Creation Date/Time:</b>	5/22/12 10:07
<b>Entered By Department:</b>	Energy Supply & Control-GenCo	<b>Status:</b>	Closed
<b>Reportable to External Agency:</b>	no	<b>Basis for Reportability:</b>	Less than 60 minute deviation, agencies were give an Email notice of the event, and informed it would be included in the annual submittal
<b>Additional Followup Required:</b>	no		
<b>Category:</b>	Regulatory	<b>Type:</b>	FERC Deviation
<b>Sub Type:</b>	Plant equip. failure	<b>Description:</b>	governor
<b>Causal Analysis Level:</b>	Closed - No further action required	<b>Causal Analysis Basis:</b>	Operator was at plant, adjusting load and governor caused the unit to go down and unit tripped. Operator started the other unit, and established flow. <i>Crew tore apart the governor, cleaned and oiled parts, ran it and it functioned OK</i>
<b>Event Start:</b>	5/22/2012 9:47 AM	<b>Event End:</b>	5/22/2012 10:19 AM
<b>Evaluator Name:</b>	Meyers, Robert J	<b>Evaluator Dept:</b>	UPPCO-GENCO
<b>Evaluation Accepted:</b>		<b>Acceptance Comments:</b>	
<b>Eval Due Date:</b>		<b>Eval Completion Date:</b>	
<b>Approver Name:</b>		<b>Corrective Action Approver Name:</b>	
<b>Analysis Description:</b>			
<b>Causes:</b>			
<b>Primary Causes:</b>			
<b>Does Eval Require Sceening Committee Approval upon Completion</b>	no		
<b>Evaluation Reviewed/Approved by Screening Committee</b>			



# Point Info - UPPCO-MCL: Powerhouse Penstock Flow



CCAT125

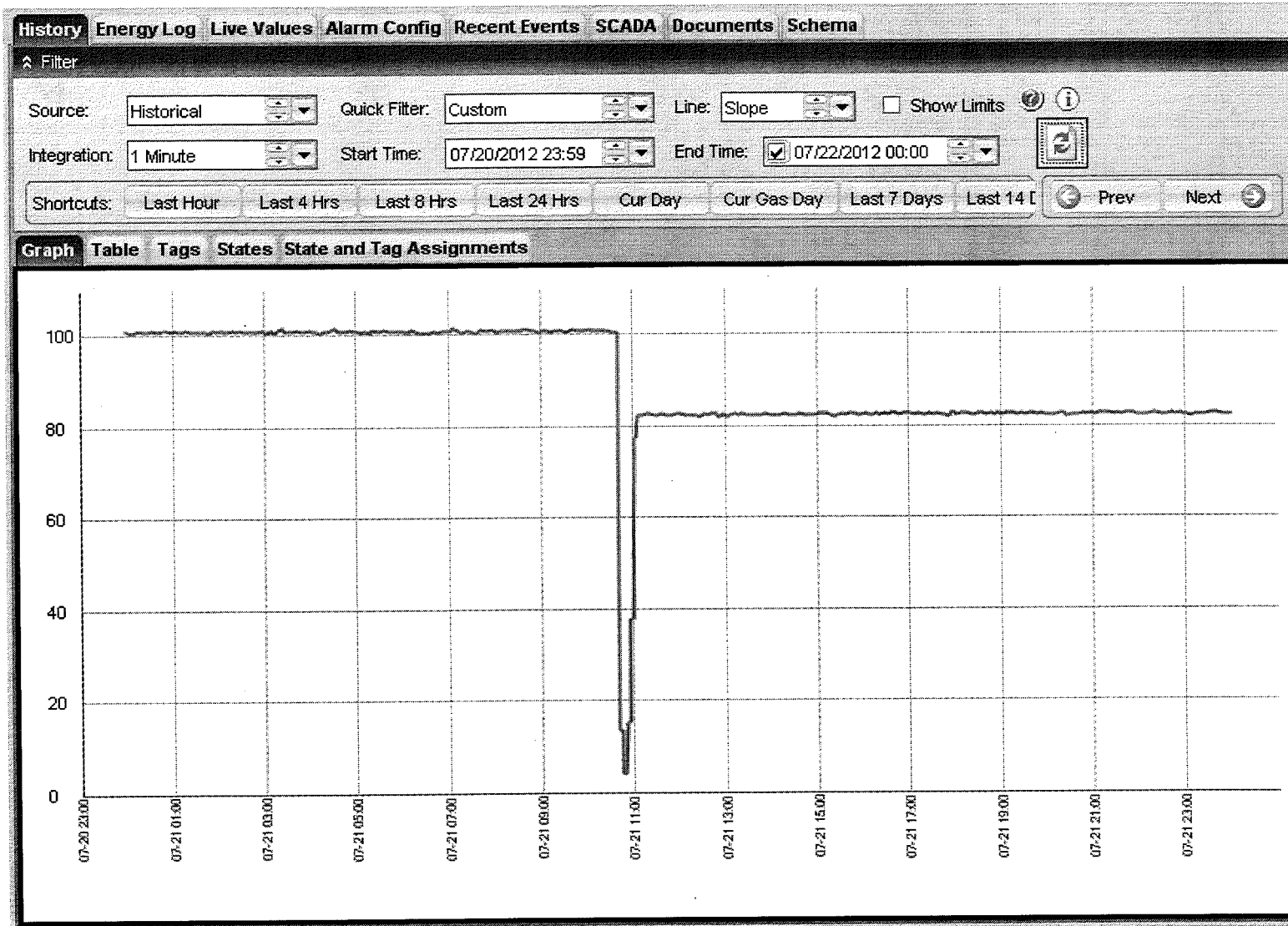
Print Date: 01/03/2013

## Non-Conformance Event Record Detail



<b>NC Record Number:</b>	NCREG4105	<b>Entity:</b>	Regional Generation
<b>Company - Level 1 - Level 2:</b>	UPP-McClure Hydro		
<b>Event Date:</b>	07/21/2012	<b>Discovery Date/Time:</b>	7/21/12 10:41
<b>Event Title:</b>	Unit #2 tripped		
<b>Event Details:</b>	operator was on site performing a cfs reduction and in doing so the unit tripped		
<b>Immediate Action:</b>	operator began the process of putting #1 online and will leave #2 offline for further analysis		
<b>Recommendations:</b>	n/a		
<b>Potential Causes/Contributors to incident</b>	n/a		
<b>Entered By Name:</b>	David C Paananen	<b>Creation Date/Time:</b>	7/21/12 10:47
<b>Entered By Department:</b>	Energy Supply & Control-GenCo	<b>Status:</b>	Closed
<b>Reportable to External Agency:</b>	yes	<b>Basis for Reportability:</b>	Less than 60 minute event, will be included in yearly report
<b>Additional Followup Required:</b>	no		
<b>Category:</b>	Regulatory	<b>Type:</b>	FERC Deviation
<b>Sub Type:</b>	Plant equip. failure	<b>Description:</b>	Less than 60 min event
<b>Causal Analysis Level:</b>	Closed - No further action required	<b>Causal Analysis Basis:</b>	Unit tripped other unit put in service, governor problem
<b>Event Start:</b>	7/21/2012 10:41 AM	<b>Event End:</b>	7/21/2012 11:10 AM
		<b>Event Duration (HH:MM):</b>	00:29
<b>Evaluator Name:</b>		<b>Evaluator Dept:</b>	
<b>Evaluation Accepted:</b>		<b>Acceptance Comments</b>	
<b>Eval Due Date:</b>		<b>Eval Completion Date:</b>	
<b>Approver Name:</b>		<b>Corrective Action Approver Name</b>	
<b>Analysis Description:</b>			
<b>Causes:</b>			
<b>Primary Causes:</b>			
<b>Does Eval Require Scening Committee Approval upon Completion</b>	no		
<b>Evaluation Reviewed/Approved by Screening Committee</b>			

# Point Info - UPPCO-MCL: Powerhouse Penstock Flow



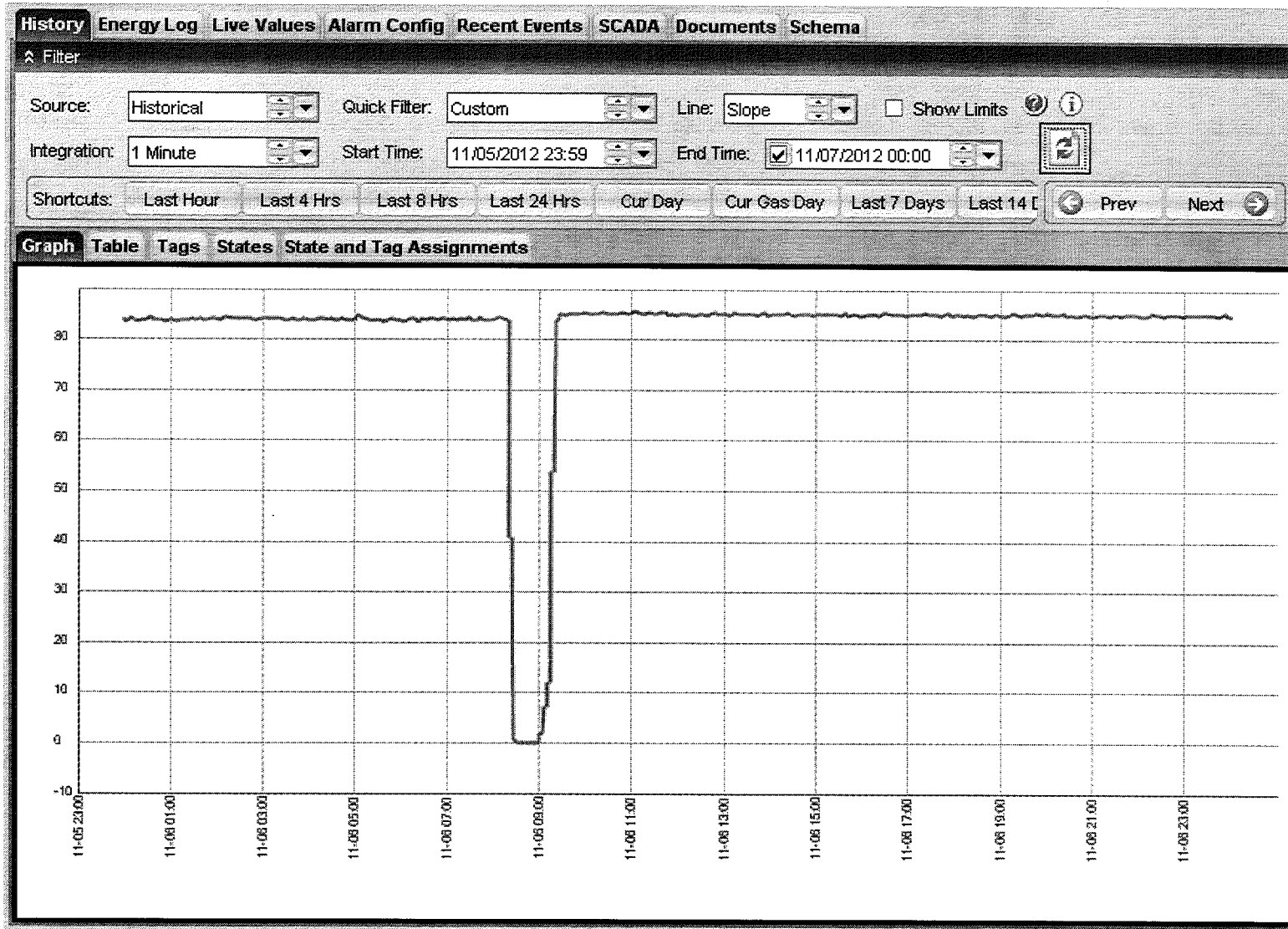
CCAT125

Print Date: 01/03/2013

**Non-Conformance Event Record Detail**

<b>NC Record Number:</b>	NCREG4394	<b>Entity:</b>	Regional Generation
<b>Company - Level 1 - Level 2:</b>	UPP-McClure Hydro		
<b>Event Date:</b>	11/06/2012	<b>Discovery Date/Time:</b>	11/6/12 8:21
<b>Event Title:</b>	CFS <80 during generation outage		
<b>Event Details:</b>	Unit 1 was taken offline for maintenance from 0821 to 0916 cst. Flow was limited to the siphon tube 10 cfs as unit 2 was unavailable		
<b>Immediate Action:</b>	No actionable response necessary		
<b>Recommendations:</b>	Allow for flow continuation during generation outages		
<b>Potential Causes/Contributors to incident</b>	Maintenance		
<b>Entered By Name:</b>	Garry D Gentry	<b>Creation Date/Time:</b>	11/6/12 9:46
<b>Entered By Department:</b>	Energy Supply & Control-GenCo	<b>Status:</b>	Closed
<b>Reportable to External Agency:</b>	no	<b>Basis for Reportability:</b>	Will be done as part of end of year
<b>Additional Followup Required:</b>	no		
<b>Category:</b>	Regulatory	<b>Type:</b>	FERC Deviation
<b>Sub Type:</b>	Other	<b>Description:</b>	Un planned outage for bearing cooling water line plugged
<b>Causal Analysis Level:</b>	Closed - No further action required	<b>Causal Analysis Basis:</b>	Unit had to come off line to fix bearing cooling water line, as it was plugged, normally we would change units to do this, but with the substation work, we could not take the other unit off, so we had to take unit out of service to fix the plugged water cooling line.
<b>Event Start:</b>	11/6/2012 8:21 AM	<b>Event End:</b>	11/6/2012 9:16 AM
<b>Event Duration (HH:MM):</b>			00:55
<b>Evaluator Name:</b>		<b>Evaluator Dept:</b>	
<b>Evaluation Accepted:</b>		<b>Acceptance Comments</b>	
<b>Eval Due Date:</b>		<b>Eval Completion Date:</b>	
<b>Approver Name:</b>		<b>Corrective Action Approver Name</b>	
<b>Analysis Description:</b>			
<b>Causes:</b>			
<b>Primary Causes:</b>			
<b>Does Eval Require Screening Committee Approval upon Completion</b>			no
<b>Evaluation Reviewed/Approved by Screening Committee</b>			

# Point Info - UPPCO-MCL: Powerhouse Penstock Flow



CCAT125

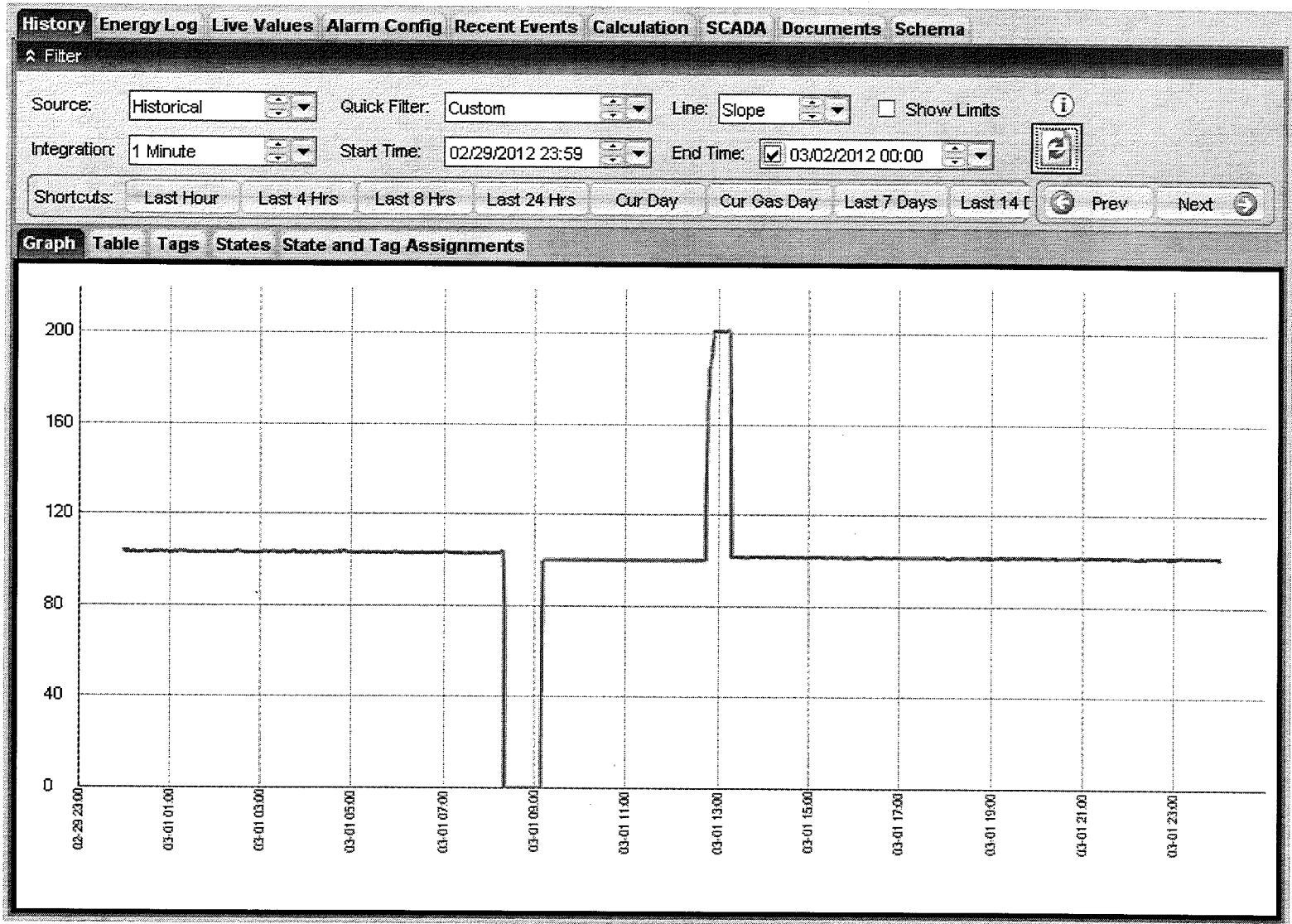
Print Date: 01/03/2013

# Non-Conformance Event Record Detail



<b>NC Record Number:</b> NCREG3657		<b>Entity:</b> Regional Generation	
<b>Company - Level 1 - Level 2:</b> UPP-Hoist Hydro			
<b>Event Date:</b>	03/01/2012	<b>Discovery Date/Time:</b>	3/1/12 8:19
<b>Event Title:</b>	Loss of Off-site power to Hoist		
<b>Event Details:</b>	At 0819, the Hoist station lost off-site power which caused the running unit (#2) to trip off line and generated many station alarms.		
<b>Immediate Action:</b>	Talked to the local Operator (who happened to be at the Hoist station) and contacted the DOC.		
<b>Recommendations:</b>	none		
<b>Potential Causes/Contributors to incident</b>	unknown		
<b>Entered By Name:</b>	Thomas R Grow	<b>Creation Date/Time:</b>	3/1/12 9:02
<b>Entered By Department:</b>	Energy Supply & Control-GenCo	<b>Status:</b>	Closed
<b>Reportable to External Agency:</b>	no	<b>Basis for Reportability:</b>	Will be reported in Annual Report
<b>Additional Followup Required:</b>	no		
<b>Category:</b>	Regulatory	<b>Type:</b>	FERC Deviation
<b>Sub Type:</b>	Trans. Sys. (storm related)	<b>Description:</b>	
<b>Causal Analysis Level:</b>	Closed - No further action required	<b>Causal Analysis Basis:</b>	Deviation of 100 cfs from Hoist, plant tripped, LLO opened, restoring flow, Annual report
<b>Event Start:</b>	2/1/2012 7:19 AM	<b>Event End:</b>	2/1/2012 8:13 AM
		<b>Event Duration (HH:MM):</b>	00:54
<b>Evaluator Name:</b>		<b>Evaluator Dept:</b>	
<b>Evaluation Accepted:</b>		<b>Acceptance Comments</b>	
<b>Eval Due Date:</b>		<b>Eval Completion Date:</b>	
<b>Approver Name:</b>		<b>Corrective Action Approver Name</b>	
<b>Analysis Description:</b>			
<b>Causes:</b>			
<b>Primary Causes:</b>			
<b>Does Eval Require Scening Committee Approval upon Completion</b>		<b>no</b>	
<b>Evaluation Reviewed/Approved by Screening Committee</b>			

# Point Info - UPPCO-HST: Total Plant Flow



CCAT125

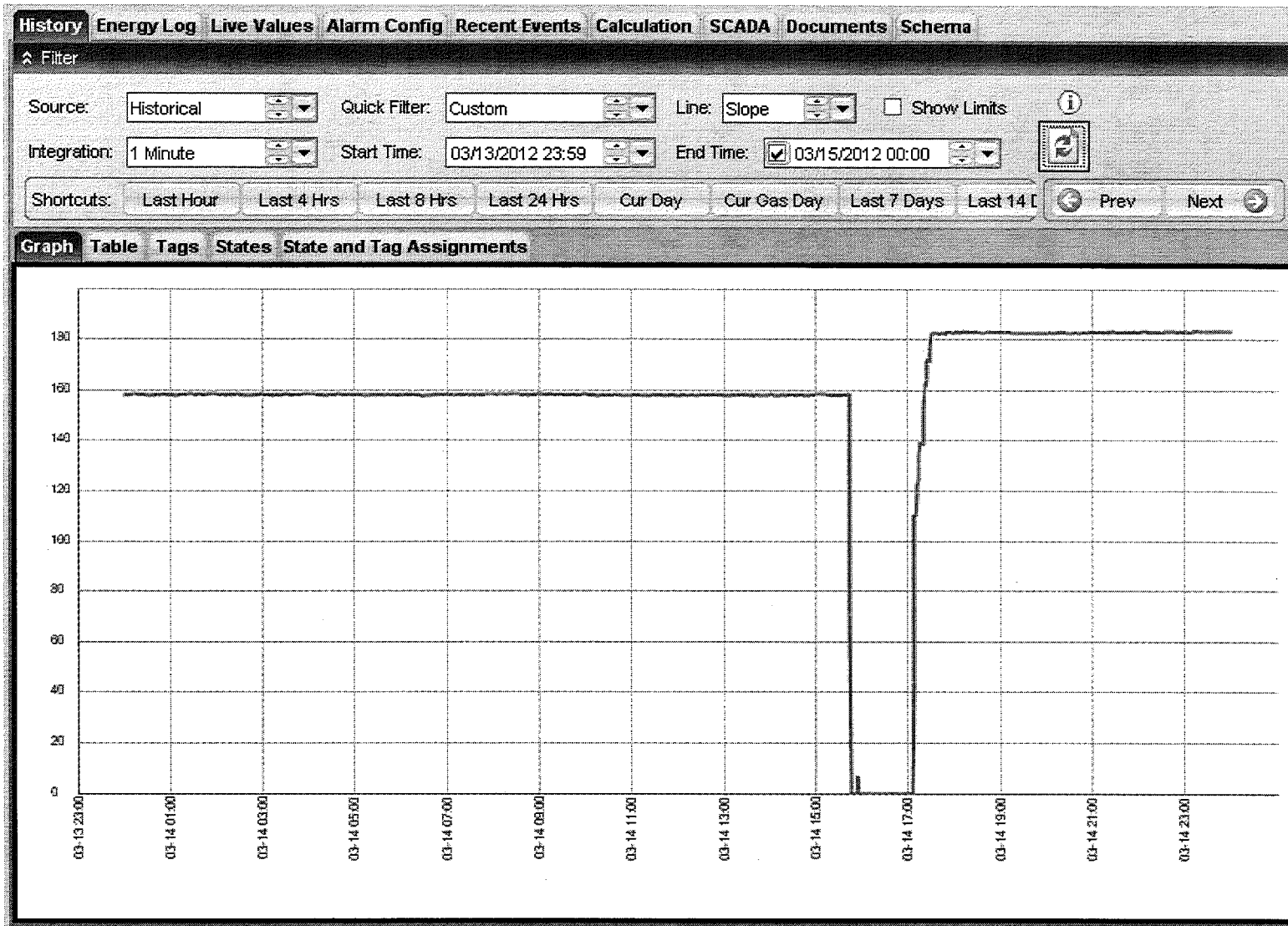
Print Date: 01/03/2013

**Non-Conformance Event Record Detail**

<b>NC Record Number:</b> NCREG3680		<b>Entity:</b> Regional Generation	
<b>Company - Level 1 - Level 2:</b> UPP-Hoist Hydro			
<b>Event Date:</b>	03/14/2012	<b>Discovery Date/Time:</b>	3/14/12 16:07
<b>Event Title:</b>	Hoist Plant trip		
<b>Event Details:</b>	Hoist plant tripped off line.		
<b>Immediate Action:</b>	Called out local operator.		
<b>Recommendations:</b>	none		
<b>Potential Causes/Contributors to incident</b>	Distribution line trip.		
<b>Entered By Name:</b>	Jonathon J Jenkins	<b>Creation Date/Time:</b>	3/14/12 16:28
<b>Entered By Department:</b>	Energy Supply & Control-GenCo	<b>Status:</b>	Closed
<b>Reportable to External Agency:</b>	no	<b>Basis for Reportability:</b>	Report in Annual report
<b>Additional Followup Required:</b>	no		
<b>Category:</b>	Regulatory	<b>Type:</b>	FERC Deviation
<b>Sub Type:</b>	Trans. Sys. (storm related)	<b>Description:</b>	
<b>Causal Analysis Level:</b>	Closed - No further action required	<b>Causal Analysis Basis:</b>	Unit Trip/Plant trip, LLO opened, plant restored
<b>Event Start:</b>	3/14/2012 4:07 PM	<b>Event End:</b>	3/14/2012 4:49 PM
<b>Event Duration (HH:MM):</b>	00:42		
<b>Evaluator Name:</b>		<b>Evaluator Dept:</b>	
<b>Evaluation Accepted:</b>		<b>Acceptance Comments</b>	
<b>Eval Due Date:</b>		<b>Eval Completion Date:</b>	
<b>Approver Name:</b>		<b>Corrective Action Approver Name</b>	
<b>Analysis Description:</b>			
<b>Causes:</b>			
<b>Primary Causes:</b>			
<b>Does Eval Require Screening Committee Approval upon Completion</b>	no		
<b>Evaluation Reviewed/Approved by Screening Committee</b>			



# Point Info - UPPCO-HST: Total Plant Flow



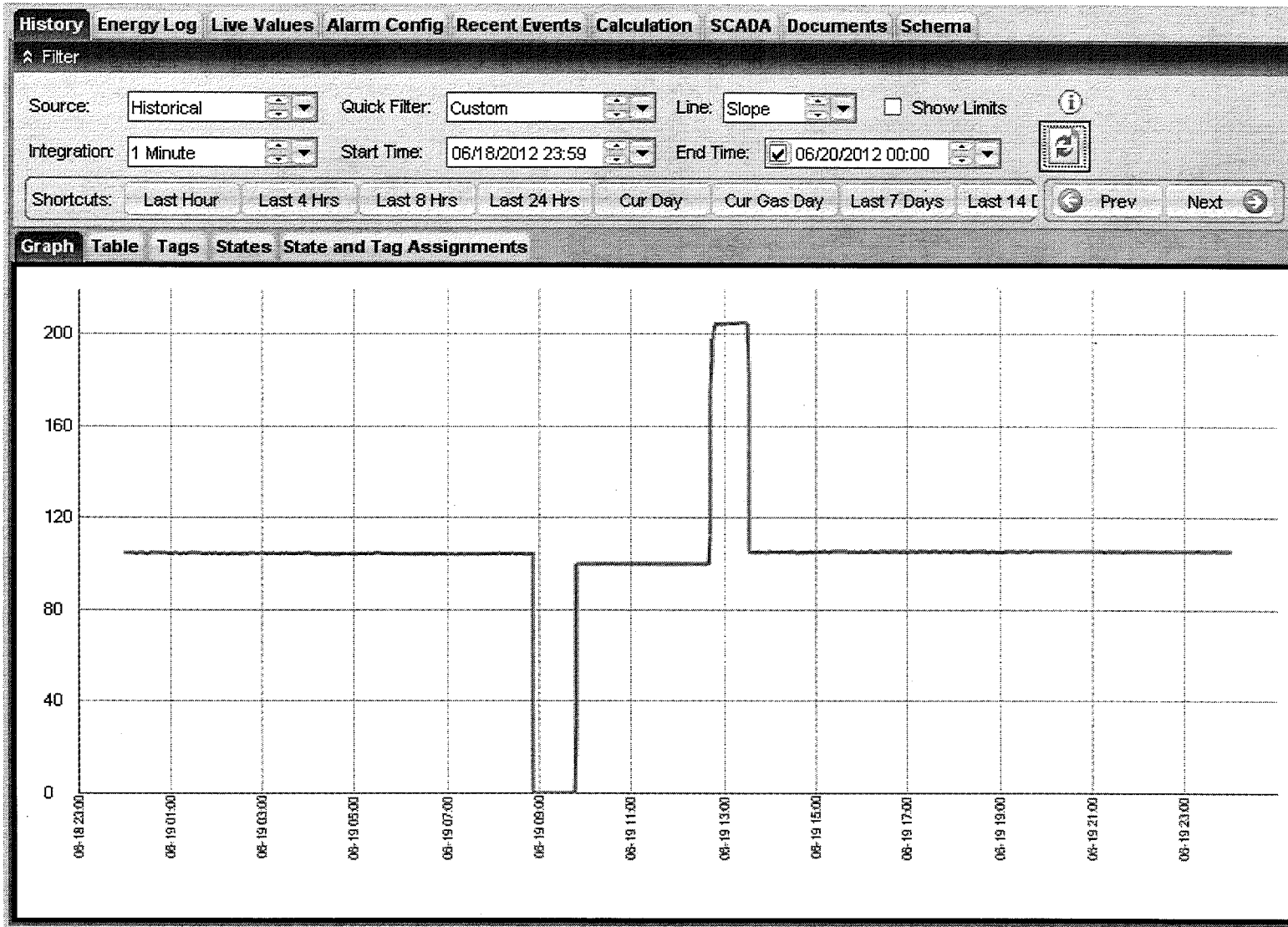
CCAT125

Print Date: 01/03/2013

**Non-Conformance Event Record Detail**

<b>NC Record Number:</b>	NCREG3963		<b>Entity:</b>	Regional Generation	
<b>Company - Level 1 - Level 2:</b>	UPP-Hoist Hydro				
<b>Event Date:</b>	06/19/2012	<b>Discovery Date/Time:</b>	6/19/12 8:52		
<b>Event Title:</b>	Deviation from minimum flow / unplanned loss of generation				
<b>Event Details:</b>	At 08:52 CPT on 6/19/2012 a loss of power to the Hoist plant caused generation to trip offline, reducing flow to zero cfs.				
<b>Immediate Action:</b>	A local operator was contacted and dispatched to the plant. At 09:40 CPT the lower level outlet was opened to achieve a flow of 100 cfs. Power was restored to the plant at 12:18 CPT. Generator #3 was restarted at 12:41 and a flow of approximately 104 cfs was then reestablished through the generator. The lower level outlet was closed at 13:25.				
<b>Recommendations:</b>	-				
<b>Potential Causes/Contributors to incident</b>	A tree fell into a distribution line during a local weather event.				
<b>Entered By Name:</b>	Kevin S Willey	<b>Creation Date/Time:</b>	6/19/12 14:34		
<b>Entered By Department:</b>	Energy Supply & Control-GenCo	<b>Status:</b>	Closed		
<b>Reportable to External Agency:</b>	yes	<b>Basis for Reportability:</b>	Agencies notified by Email, and since there was a DO deviation also, FERC letter was submitted		
<b>Additional Followup Required:</b>	no				
<b>Category:</b>	Regulatory	<b>Type:</b>	FERC Deviation		
<b>Sub Type:</b>	Trans. Sys. (storm related)	<b>Description:</b>			
<b>Causal Analysis Level:</b>	Closed - No further action required	<b>Causal Analysis Basis:</b>	Tree on Line, operator got to plant,		
<b>Event Start:</b>	6/19/2012 9:57 AM	<b>Event End:</b>	6/19/2012 10:50 AM	<b>Event Duration (HH:MM):</b>	00:53
<b>Evaluator Name:</b>		<b>Evaluator Dept:</b>			
<b>Evaluation Accepted:</b>		<b>Acceptance Comments</b>			
<b>Eval Due Date:</b>		<b>Eval Completion Date:</b>			
<b>Approver Name:</b>		<b>Corrective Action Approver Name</b>			
<b>Analysis Description:</b>					
<b>Causes:</b>					
<b>Primary Causes:</b>					
<b>Does Eval Require Scening Committee Approval upon Completion</b>	no				
<b>Evaluation Reviewed/Approved by Screening Committee</b>					

# Point Info - UPPCO-HST: Total Plant Flow



CCAT125

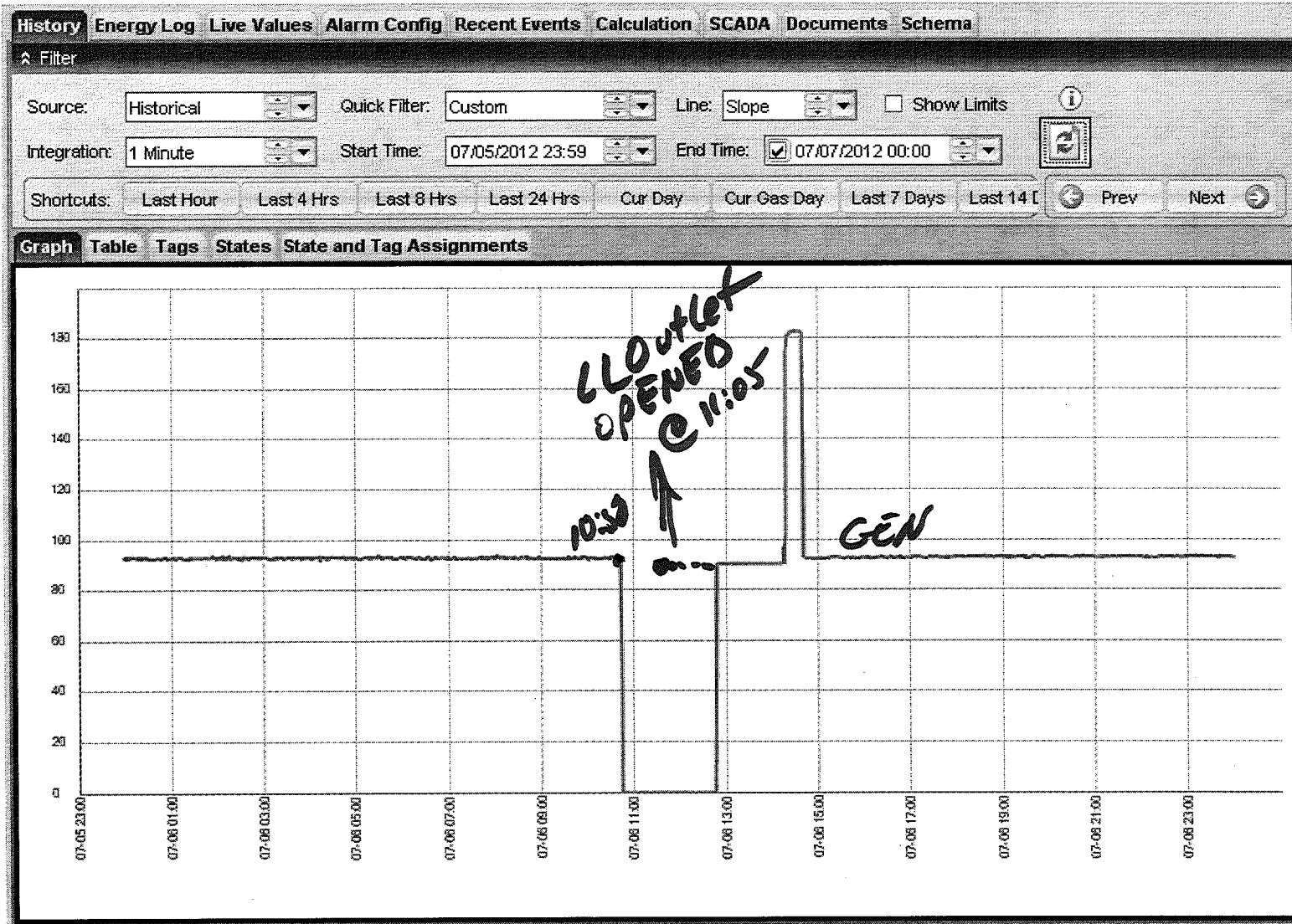
Print Date: 01/03/2013

## Non-Conformance Event Record Detail



<b>NC Record Number:</b>	NCREG4028	<b>Entity:</b>	Regional Generation
<b>Company - Level 1 - Level 2:</b>	UPP-Hoist Hydro		
<b>Event Date:</b>	07/06/2012	<b>Discovery Date/Time:</b>	7/6/12 10:56
<b>Event Title:</b>	Hoist 241CB [opened]		
<b>Event Details:</b>	Hoist generation tripped off-line as a result of a transmission line issue.		
<b>Immediate Action:</b>	Spoke to John Rondeau, who was at Hoist when the trip occurred.		
<b>Recommendations:</b>	NA		
<b>Potential Causes/Contributors to incident</b>	NA		
<b>Entered By Name:</b>	Mark A Nemetz	<b>Creation Date/Time:</b>	7/6/12 10:59
<b>Entered By Department:</b>	Energy Supply & Control-GenCo	<b>Status:</b>	Closed
<b>Reportable to External Agency:</b>	yes	<b>Basis for Reportability:</b>	Agencies notified by Email on 7/6/2012 - FERC letter will be annually
<b>Additional Followup Required:</b>	no		
<b>Category:</b>	Regulatory	<b>Type:</b>	FERC Deviation
<b>Sub Type:</b>	Trans. Sys. (non-storm related)	<b>Description:</b>	less than 60 minutes deviation
<b>Causal Analysis Level:</b>	Closed - No further action required	<b>Causal Analysis Basis:</b>	LLO opened after the unit trip restoring minimum flow to the river, so less than 60 minute deviation occurred
<b>Event Start:</b>	7/6/2012 10:45 AM	<b>Event End:</b>	7/6/2012 11:05 AM
		<b>Event Duration (HH:MM):</b>	00:20
<b>Evaluator Name:</b>		<b>Evaluator Dept:</b>	
<b>Evaluation Accepted:</b>		<b>Acceptance Comments</b>	
<b>Eval Due Date:</b>		<b>Eval Completion Date:</b>	
<b>Approver Name:</b>		<b>Corrective Action Approver Name</b>	
<b>Analysis Description:</b>			
<b>Causes:</b>			
<b>Primary Causes:</b>			
<b>Does Eval Require Screening Committee Approval upon Completion</b>		no	
<b>Evaluation Reviewed/Approved by Screening Committee</b>			

# Point Info - UPPCO-HST: Total Plant Flow



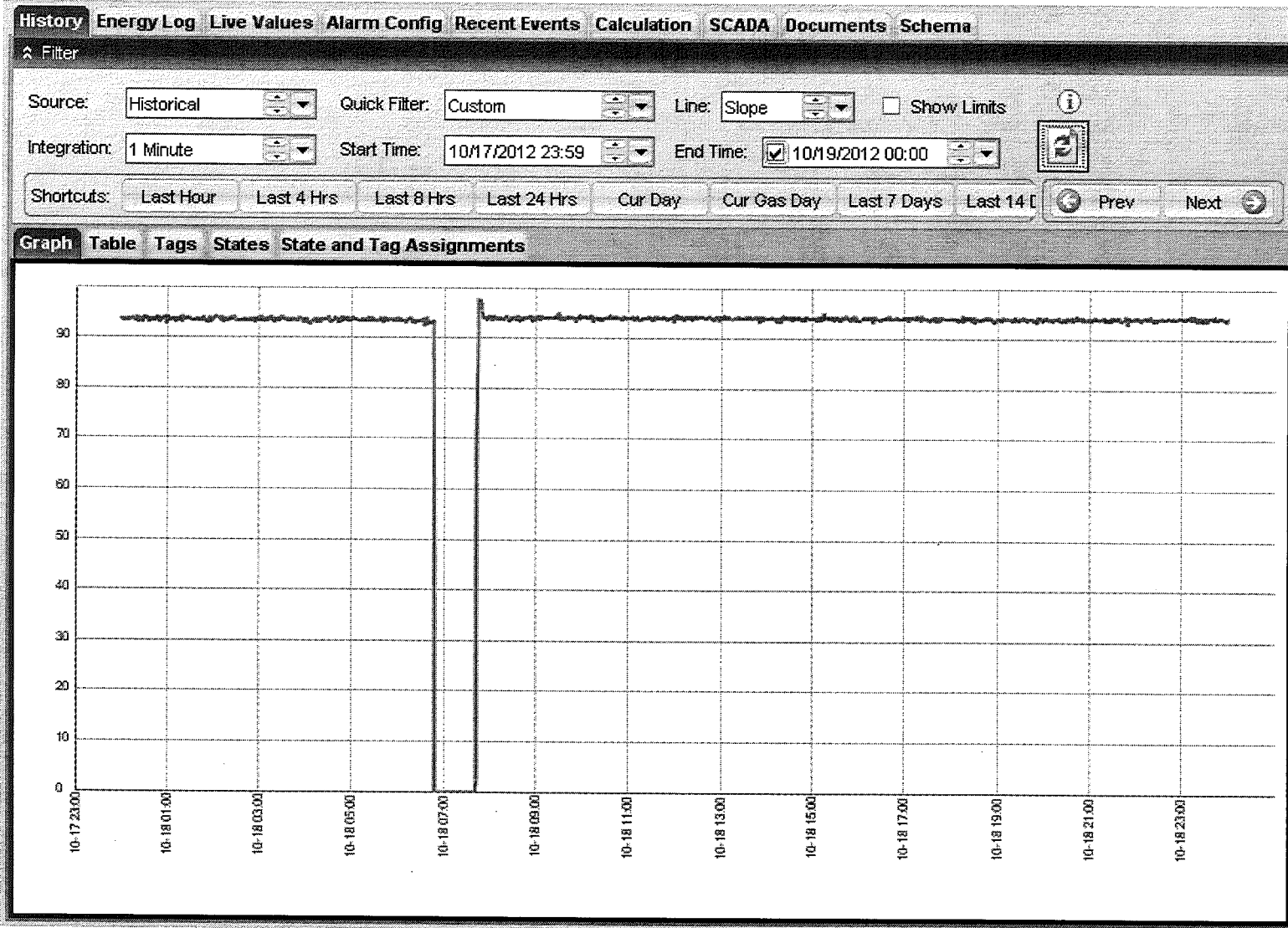
CCAT125

Print Date: 01/03/2013

**Non-Conformance Event Record Detail**

<b>NC Record Number:</b>	NCREG4351	<b>Entity:</b>	Regional Generation
<b>Company - Level 1 - Level 2:</b>	UPP-Hoist Hydro		
<b>Event Date:</b>	10/18/2012	<b>Discovery Date/Time:</b>	10/18/12 7:07
<b>Event Title:</b>	Unit Trip		
<b>Event Details:</b>	Unit #3 tripped offline at 0647, at this time we are not sure what caused the trip. The operator was called out using ARCOS.		
<b>Immediate Action:</b>	Called out operator.		
<b>Recommendations:</b>	None		
<b>Potential Causes/Contributors to incident</b>	Not sure at this time, DOC said they did not lose the power to the plant.		
<b>Entered By Name:</b>	Stephen M Beirne	<b>Creation Date/Time:</b>	10/18/12 7:12
<b>Entered By Department:</b>	Energy Supply & Control-GenCo	<b>Status:</b>	Closed
<b>Reportable to External Agency:</b>	yes	<b>Basis for Reportability:</b>	End of year less than 60 minute event
<b>Additional Followup Required:</b>	yes		
<b>Category:</b>	Regulatory	<b>Type:</b>	FERC Deviation
<b>Sub Type:</b>	Trans. Sys. (storm related)	<b>Description:</b>	
<b>Causal Analysis Level:</b>	Closed - No further action required	<b>Causal Analysis Basis:</b>	tree removed and line put in
<b>Event Start:</b>	10/18/2012 6:50 AM	<b>Event End:</b>	10/18/2012 7:41 AM
		<b>Event Duration (HH:MM):</b>	00:51
<b>Evaluator Name:</b>		<b>Evaluator Dept:</b>	
<b>Evaluation Accepted:</b>		<b>Acceptance Comments</b>	
<b>Eval Due Date:</b>		<b>Eval Completion Date:</b>	
<b>Approver Name:</b>		<b>Corrective Action Approver Name</b>	
<b>Analysis Description:</b>			
<b>Causes:</b>			
<b>Primary Causes:</b>			
<b>Does Eval Require Scening Committee Approval upon Completion</b>		no	
<b>Evaluation Reviewed/Approved by Screening Committee</b>			

# Point Info - UPPCO-HST: Total Plant Flow





Upper Peninsula Power Company

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

June 21, 2012

FERC Project No. 10855

NATDAM Nos. 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 - McClure Development  
Report of Deviation Minimum Flow License Article 403 and Article 405 Ops Monitoring Plan

In accordance with Article 403 and 405 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 (FERC), Michigan Department of Natural Resources (MDNR), Michigan Department of Environmental Quality (MDEQ), 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 and/or reservoir elevations are exceeded. Please consider this letter as fulfillment of the notification requirement of these deviations.

The McClure plant tripped at 10:30 am EDT, Thursday, June 14, 2012, due to a transmission system fault attributed to high wind gusts causing a tree that was out of the right of way to fall on the line. Line crews, after properly switching and grounding the line cleared the tree off all three phases of the line. Operators were called to the plant, and after the fault on the line was cleared, the plant was returned to service at 15:48 pm EDT, re-establishing the 80 cfs minimum flow. No adverse environmental effects were noted.

The agencies (MDEQ, MDNR, and USFWS) were informed by e-mail on Friday, June 15, 2012, of the event. A copy of the e-mail correspondence is attached.

Should 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 black ink, appearing to read "T. Jensky".

Terry P. Jensky  
Vice President – Generation Assets  
for Wisconsin Public Service Corporation

RJM/ebr

Enc: E-mail Correspondence to Agencies

cc: Mr. Gil Snyder, WPSC - D2  
Mr. Shawn Puzen, IBS - D2  
Ms. Joan Johaneck, WPSC - D2  
Mr. Dave Giesler, IBS - D2  
Mr. Ben Trotter, IBS - D2  
Mr. John Myers, IBS - D2  
Mr. Keith Moyle, UPPCO - UISC  
Mr. Virgil Schlorke, UPPCO - UISC  
Mr. Robert Meyers, UPPCO - UISC  
Mr. John Zygaj, FERC - CRO  
Ms. Patricia Grant, FERC - CRO



## Rushford, Emily B

---

**From:** Meyers, Robert J  
**Sent:** Friday, June 15, 2012 1:07 PM  
**To:** Meyers, Robert J; 'gmensch@kbic-nsn.gov'; 'Taft, Bill (DNRE)'; 'kohlheppg@michigan.gov'; 'Mitch Koetje'; 'vincent\_cavalier@fws.gov'; 'Casey, Steven'; 'KRUGERK@michigan.gov'  
**Cc:** Puzen, Shawn C; Schlorke, Virgil E; Rushford, Emily B  
**Subject:** Dead River License Article 403 - McClure Minimum Flow Deviation on June 14, 2012  
**Attachments:** McClure Plant Trip June 14 2012 cfs record .pdf

Gang,

On Thursday Morning June 14th the McClure Plant tripped off line at 10:30 EDT reducing the minimum flow. Operator was dispatched to the plant. The plant was returned to service re-establishing the flow at 15:48 hours EDT. The cause of the plant trip was from a tree that fell on the transmission line. The tree was from off the right away the fell due to high winds at the time. It fell across all three phases and it took the line department time to properly switch and ground the line to remove the tree. One the tree was removed the plant was able to restarted.

There were no environmental issues with the outage, and FERC will be notified of the event.

Attached graph of the minimum flow requirements -

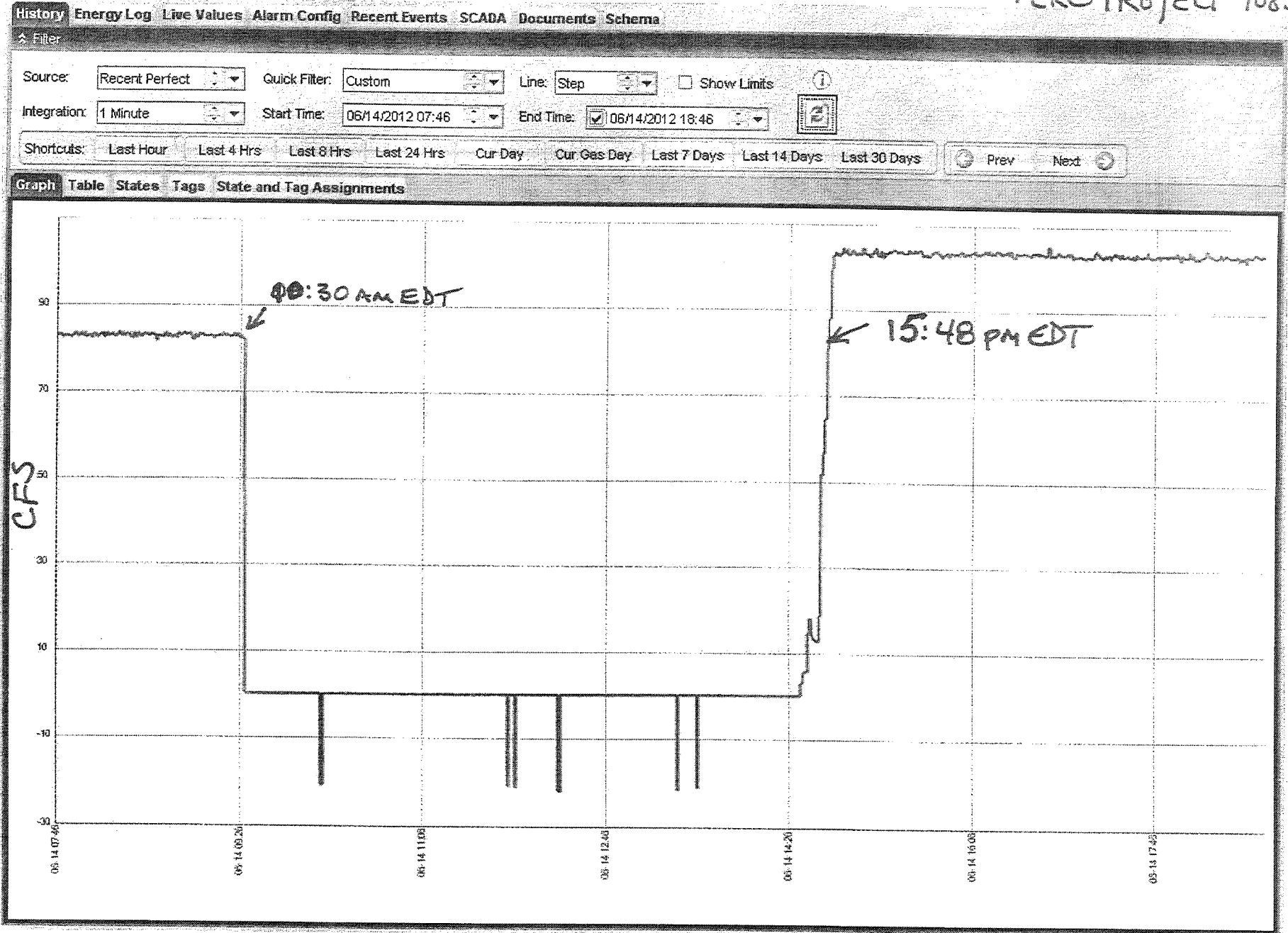
bob

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@uppc.com](mailto:rjmeyers@uppc.com)

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McClure  
Point Info - UPPCO-MCL: Powerhouse Penstock Flow

FERC Project 10855





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

July 6, 2012

FERC Project No. 10855  
NATDAM Nos. MI00175 and MI00183

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

Dear Secretary Bose:

Hoist and McClure 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), the U.S. Fish and Wildlife Service (FWS) and the Dead River Campers Inc (DRCI).

The agencies and other interested parties (MDEQ, MDNR, FWS and DRCI) were first informed via e-mail of the minimum flow conditions starting May 6, 2012 and that start of month targets for June and July would not be met.

UPPCO obtained mutual agreement among MDNR, MDEQ and the DRCI on the planned deviation with no comments from the FWS. The documentation of consultation is enclosed. The planned deviation started June 27, 2012 with reducing the Hoist minimum flow to 90 cfs and the bypass flow at McClure to 10 cfs, with the McClure powerhouse staying at 80 cfs. This deviation would stay in effect until September 3, 2012 or until the pond exceeds the monthly target elevation. This will increase the boating and recreation safety on the Hoist basin.

No adverse environmental impacts have been observed 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 "Terry P. Jensky".

Terry P. Jensky *for*  
Vice President - Generation Assets  
for Wisconsin Public Service Corporation

RJM/ebr

Enc. E-mail Correspondence

cc: Mr. Gil Snyder, WPSC - D2  
Mr. Shawn Puzen, IBS - D2  
Ms. Joan Johaneck, WPSC - D2  
Mr. Dave Giesler, IBS - D2  
Mr. Ben Trotter, IBS - D2  
Mr. John Myers, IBS - D2  
Mr. Keith Moyle, UPPCO - UISC  
Mr. Robert Meyers, UPPCO - UISC  
Mr. Virgil Schlorke, UPPCO - UISC  
Mr. John Zygaj, FERC (CRO)  
Mr. Kyle Kruger, MDNR  
Mr. Mitch Koetje, MDEQ  
Mr. Burr Fisher, FWS  
Mr. James Grundstrom, DRCI

**Meyers, Robert J**

---

**From:** Puzen, Shawn C  
**Sent:** Monday, June 25, 2012 12:39 PM  
**To:** Meyers, Robert J; Schlorke, Virgil E  
**Subject:** RE: Conserving water

Let's Do it.....a planned deviation.

Thanks,

**Shawn C. Puzen**

Environmental Consultant | Environmental Services | Integrys Business Support, LLC

920-433-1094

920-639-2480 cell

920-433-1176 fax

[SCPuzen@integrysgroup.com](mailto:SCPuzen@integrysgroup.com)

[www.integrysgroup.com](http://www.integrysgroup.com)

*Providing support for Integrys Energy Group, Integrys Energy Services, Integrys Transportation Fuels, Michigan Gas Utilities, Minnesota Energy Resources, North Shore Gas, Peoples Gas, Upper Peninsula Power Company, Wisconsin Public Service, and Wisconsin River Power.*

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---

**From:** Meyers, Robert J  
**Sent:** Monday, June 25, 2012 11:38 AM  
**To:** Puzen, Shawn C; Schlorke, Virgil E  
**Subject:** FW: Conserving water

Your thoughts

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)

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---

**From:** Taft, Bill (DEQ) [<mailto:TAFTW@michigan.gov>]

**Sent:** Friday, June 22, 2012 10:37 AM

**To:** Meyers, Robert J

**Cc:** 'gmensch@kbic-nsn.gov'; Taft, Bill (DEQ); Kohlhepp, Gary (DEQ); Koetje, Mitch (DEQ); 'vincent\_cavalier@fws.gov'; Casey, Steve (DEQ); Kruger, Kyle (DNR); Jim Grundstrom; Klemans, Diana (DEQ)

**Subject:** Conserving water

Bob - I just returned from 8 days in the UP. Although Marquette County did receive some rain it appears that we will need to conserve water again this summer as we did last summer. I had not had a chance to contact everyone involved but the DEQ and DNR would like UPPCO to consider immediately reducing your water usage from 100 cfs to 90 cfs (i.e. 10 cfs for the bypass channel and 80 cfs for the power generation) until after the Labor Day Holiday in September. This will hopefully help keep the Dead River Impoundment above the critical monthly minimum pond level and make for safer boating.

Please advise.

*William H. Taft*

Senior Aquatic Biologist

Surface Water Assessment Section

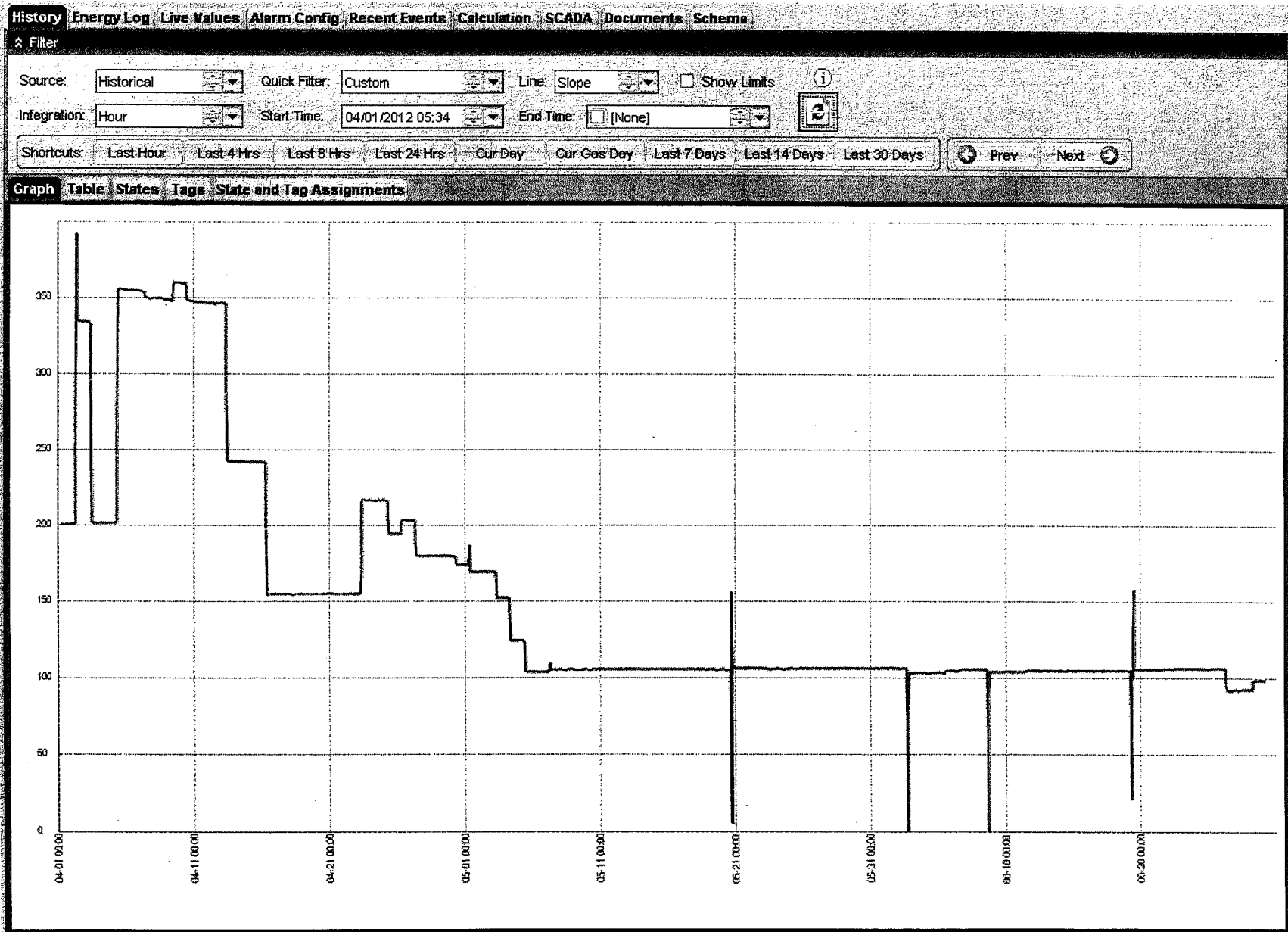
Water Resources Division

Michigan Department of Environmental Quality

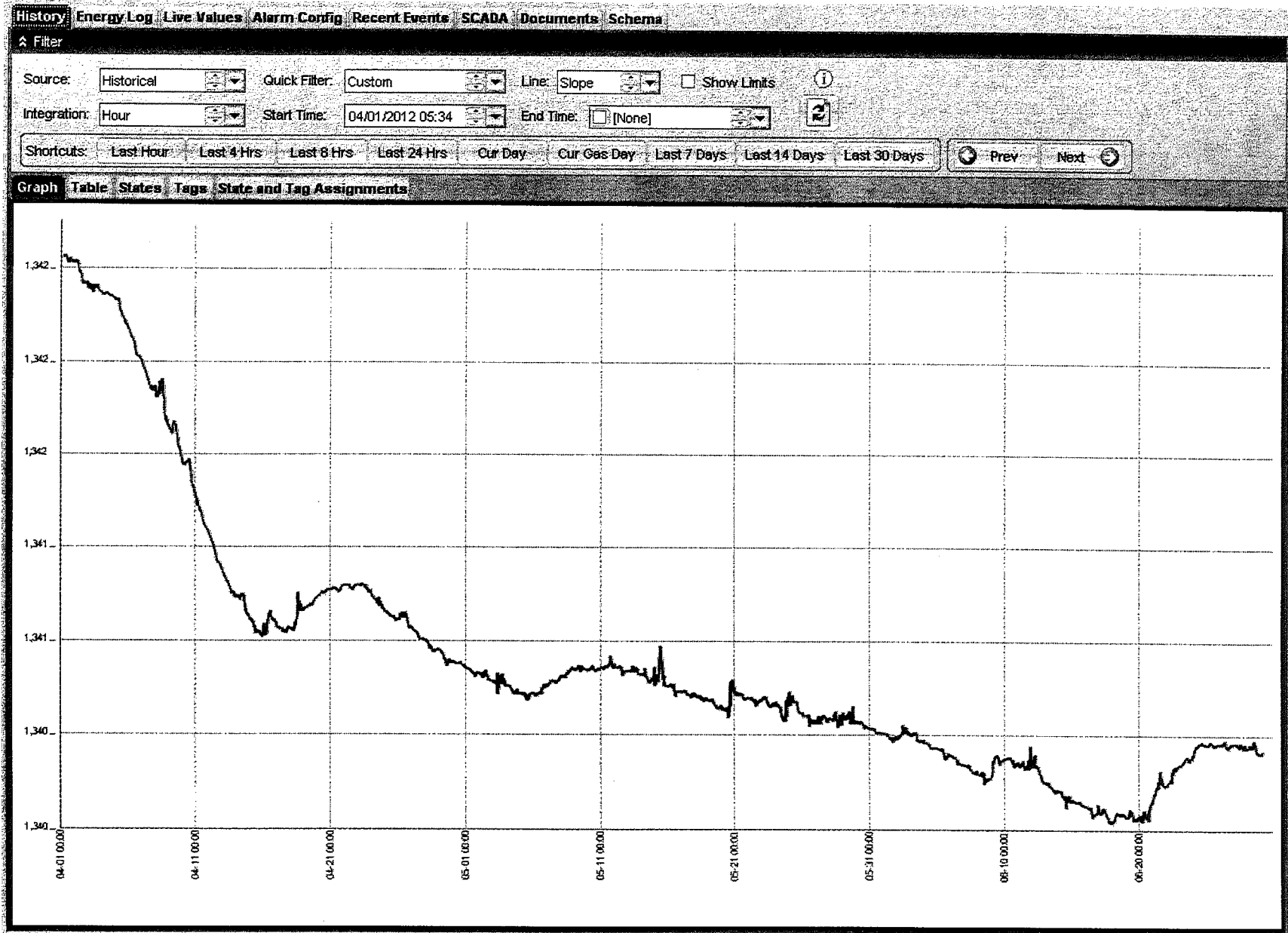
517-335-4205

[taftw@michigan.gov](mailto:taftw@michigan.gov)

# Point Info - UPPCO-HST: UPP HOIST Total Plant CFS



### Point Info - UPPCO-HST: Pond elevation



## **Meyers, Robert J**

---

**From:** Jim Grundstrom [jimgrundstrom@freichevy.com]  
**Sent:** Monday, May 21, 2012 12:51 PM  
**To:** Meyers, Robert J; 'gmensch@kbic-nsn.gov'; 'Taft, Bill (DNRE)'; 'Mitch Koetje'; 'Kohlhepp, Gary (DNRE)'  
**Cc:** Puzen, Shawn C; Schlorke, Virgil E; Rushford, Emily B; Jim Grundstrom  
**Subject:** RE: Dead River License Article 403 - Hoist Minimum Flow Deviation, Pond Elevation deviation 5/20/2012

Irrespective of the power failure, may I say that Bob and Virgil have done an admirable job of holding 1341 through the month of May so far. It is very much appreciated as we have now entered the key months of summer for safe boating and fishing enjoyment. 1341 provides a safe and navigable river channel for much of the river. For the most part the known hazards have been identified in most people's minds including the reefs, shoals, and stumps at that level.

Thanks Guys,

Jim Grundstrom  
Dead River Campers, Inc.

-----Original Message-----

**From:** Meyers, Robert J [<mailto:RJMeyers@uppcoco.com>]  
**Sent:** Monday, May 21, 2012 12:40 PM  
**To:** Meyers, Robert J; 'gmensch@kbic-nsn.gov'; Jim Grundstrom; 'Taft, Bill (DNRE)'; 'Mitch Koetje'; 'Kohlhepp, Gary (DNRE)'  
**Cc:** Puzen, Shawn C; Schlorke, Virgil E; Rushford, Emily B  
**Subject:** Dead River License Article 403 - Hoist Minimum Flow Deviation, Pond Elevation deviation 5/20/2012

Gang,

Hoist Plant tripped yesterday due to storm, and tree down on the transmission line. The Minimum flow was deviated.

Plant was off at 18:22 EDT and following reaching the plant, the operator, got the Low Level outlet opened to establish flow at 19:50 EDT.

The Plant was returned to service at 20:19 EDT, and then the LLO was Closed at 20:55 hours.

There were no environmental effects from the plant outage.

FERC will be notified of the event.

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@upppo.com](mailto:rjmeyers@upppo.com)

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## Meyers, Robert J

---

**From:** Jim Grundstrom [jimgrundstrom@freichevy.com]  
**Sent:** Monday, June 11, 2012 2:32 PM  
**To:** Meyers, Robert J; 'gmensch@kbic-nsn.gov'; 'Taft, Bill (DNRE)'; 'kohlheppg@michigan.gov'; 'Mitch Koetje'; 'vincent\_cavalier@fws.gov'; 'Casey, Steven'; 'KRUGERK@michigan.gov'  
**Cc:** Puzen, Shawn C; Schlorke, Virgil E; Rushford, Emily B; Jim Grundstrom  
**Subject:** RE: Dead River License Article 403 - Hoist and McClure Minimum Flow Deviation on June 8, 2012

Gentlemen: even with the crazy weather and the inch of rain over the weekend, the heat and continued drought conditions are taking their toll on the Hoist Basin Elevation. Although there is no crystal ball, all evidence would be pointing towards the elevation dropping at a consistent rate. Rather than wait for an elevation to trigger a crisis conversation, would it be acceptable to begin "dry year consultations" in advance?

I think it would speak volumes to the internal and external customers of the basin to proactively at least talk about the declining water elevation and possible alternative solutions.

For whatever reason as a resident of the Basin, there seems to be a marked rise in the boating population this year so far, and certainly it could be due to the wonderful hot and windy weather. There are plenty of navigational hazards to the Basin, and as the water elevation declines the safety of the boaters becomes a more serious challenge.

Bottom line, there is more water going out than in. That includes the very low volume of water being discharged from Silver Lake.

With the hope for a much wetter winter this coming year, maybe we need to tap the volume of water at Silver Lake this summer? It really does not make much difference this summer with the elevation hovering around 1480 whether we get to 1485 at the moment. In fact is probably statistically darn near impossible. Next winter and how wet it is will be a problem for down the road. We did not meet the goal of 1485 nor did we start the three year study this spring. The water probably has a better use in the Hoist basin if we are ever to match water in versus water out.

Thanks for your collective considerations,

Jim Grundstrom  
Dead River Campers, Inc.

-----Original Message-----

**From:** Meyers, Robert J [mailto:RJMeyers@upppco.com]  
**Sent:** Monday, June 11, 2012 1:43 PM  
**To:** Meyers, Robert J; 'gmensch@kbic-nsn.gov'; Jim Grundstrom; 'Taft, Bill (DNRE)'; 'kohlheppg@michigan.gov'; 'Mitch Koetje'; 'vincent\_cavalier@fws.gov'; 'Casey, Steven'; 'KRUGERK@michigan.gov'  
**Cc:** Puzen, Shawn C; Schlorke, Virgil E; Rushford, Emily B  
**Subject:** Dead River License Article 403 - Hoist and McClure Minimum Flow Deviation on June 8, 2012

Folk,

On Friday Night June 8, 2012 both the Hoist Plant and McClure Plant tripped off line at 17:53 hours EDT reducing the minimum flow. Operators were dispatched to each plant. The Hoist plant was returned to service at 19:12 hours EDT establishing the minimum flow above the 100

cfs required. The McClure plant was returned to service at 19:50 hours EDT re-establishing the minimum flow of 80 cfs flow from the powerhouse. The cause of the trip was due to the transmission system trip from a tree falling. The tree was from out of the right away. The weather conditions at the time included gusts of wind in excess of 60 miles per hour, heavy rain, tornado warnings and hail up to 1" diameter. Once the tree was removed from the system the units could be returned to service.

There were no environmental issues with the outage, and FERC will be notified of the event.

Attached graphs of the minimum flow requirements

Bob

Robert J. Meyers  
UPPCO - Project Manager  
500 N.Washington St.  
Ishpeming, MI 49849  
phone desk: (906) 485-2419  
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Upper Peninsula Power Company

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

August 15, 2012

FERC Project No. 10855  
NATDAM Nos. MIO0183

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

Dear Secretary Bose:

Dead River System – McClure Hydroelectric Project  
Article 402 Storage Basin Levels & 403 Minimum Flows & 405 Operations Monitoring Plan

In accordance with Articles 402, 403, and 405 of the Order Issuing License for the McClure Hydroelectric Project dated October 4, 2002, the licensee is required to file a deviation report with the Federal Energy Regulatory Commission (FERC), Michigan Department of Natural Resources (MDNR), Michigan Department of Environmental Quality (MDEQ), and U.S. Fish and Wildlife Services (USFWS), when discharge from the powerhouse falls below the minimum flow requirement and/or reservoir elevations are exceeded. Please consider this letter as fulfillment of the notification requirement of these deviations.

On Monday, June 18, 2012, the above listed agencies were e-mailed notice of a planned deviation of the minimum flow and storage basin level. There were no comments received from the agencies.

The plant was taken off line on Thursday, July 19, 2012, at 07:31 EDT, and the minimum flow of 80 cfs could not be maintained. The headwater pond elevation rose above 1196.4 feet NGVD at 12:00 EDT, and a maximum elevation of 1196.60 feet NGVD was observed at 17:00 EDT. The McClure plant was returned to service at 17:10 EDT, which re-established the minimum flow from the powerhouse. Pond elevation returned to normal operational range on Friday, July 20, 2012, at 01:43 EDT. No environmental issues or concerns were observed during the outage.

UPPCO and the agencies (MDEQ, MDNR, and USFWS) were informed of the event by e-mail on Friday, July 20, 2012, at 14:52 EDT.

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 black ink, appearing to read "T. J. Jensky".

Terry P. Jensky  
Vice President - Generation Assets  
for Wisconsin Public Service Corporation

RJM/ebr

Enc: E-mail Correspondence to Agencies & Graphs of Event

cc: Mr. Gil Snyder, WPSC - D2  
Mr. Shawn Puzen, IBS - D2  
Ms. Joan Johaneck, WPSC - D2  
Mr. Dave Giesler, IBS - D2  
Mr. Ben Trotter, IBS - D2  
Mr. John Myers, IBS - D2  
Mr. Virgil Schlorke, UPPCO - UISC  
Mr. Robert Meyers, UPPCO - UISC  
Mr. Keith Moyle, UPPCO - UISC  
Mr. Mitch Koetje - MDEQ  
Mr. Kyle Kruger - MDNR  
Mr. Bill Taft - MDNR  
Mr. John Zygaj, FERC - CRO

## **Meyers, Robert J**

---

**From:** Meyers, Robert J  
**Sent:** Friday, July 20, 2012 2:52 PM  
**To:** Meyers, Robert J; 'gmensch@kbic-nsn.gov'; 'KRUGERK@michigan.gov'; 'Mitch Koetje'; 'Taft, Bill (DNRE)'; 'Burr'; Metcalf, Mark W; Nuthals, James D  
**Cc:** Puzen, Shawn C; Rushford, Emily B; Schlorke, Virgil E  
**Subject:** Dead River System Planned outage week of July 16th for work on substation - McClure Plant - WORK DONE 7-19-2012

Gang,

As indicated below the outage took place 7/19/2012

At 07:31 EDT unit came off line, and the 80 cfs was no longer available below the Powerhouse

At 12:00 noon the head water exceeded the high limit of 1196.40 ft and reached a high of 1196.60 at 17:00 hours EDT

At 17:10 EDT the plant was back on line and the minimum 80 cfs was available, and the system was returned to normal operation.

At 01:43 hours on 7/20/12 the pond returned below the high limit of 1196.40 ft.

No environmental issues were evident.

FERC will be notified of the event.

Thank you for your cooperation on this project.

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@uppcocom](mailto:rjmeyers@uppcocom)

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---

**From:** Meyers, Robert J  
**Sent:** Monday, June 18, 2012 1:30 PM  
**To:** Meyers, Robert J; 'Casey, Steven'; 'gmensch@kbic-nsn.gov'; 'vincent\_cavallier@fws.gov'; 'KRUGERK@michigan.gov'; 'Mitch Koetje'; 'Taft, Bill (DNRE)'

**Cc:** Puzen, Shawn C; Rushford, Emily B; Schlorke, Virgil E; Kezele, Joseph P; Nelson, William B  
**Subject:** Dead River System Planned outage week of July 16th for work on substation - McClure Plant

**Gang:**

**Planned outage at McClure Powerhouse is needed the week of July 16<sup>th</sup> for upgrades to the substation and transmission system, in the process of rebuilding the McClure 33KV line.**

**The outage should take about 6-8 hours to complete, weather dependent.**

**Planned deviations would be: Article 403 – Minimum Flow from the powerhouse of less than 80 cfs as sufficient flow would not be available. And possible deviation of Article 402 elevation with the plant out of service, as the pond will rise.**

**Minimum flow of 20 cfs will remain in the bypass reach and will be increased as the reservoir rises over the spillway and inflow is passed into the bypass reach, but with the lower inflow from the Hoist it may not get to the spillway level.**

**The tailrace will be walked to determine and move any stranded fish into pools or transported downstream if found.**

**Please send any comments or concerns to me in a timely fashion.**

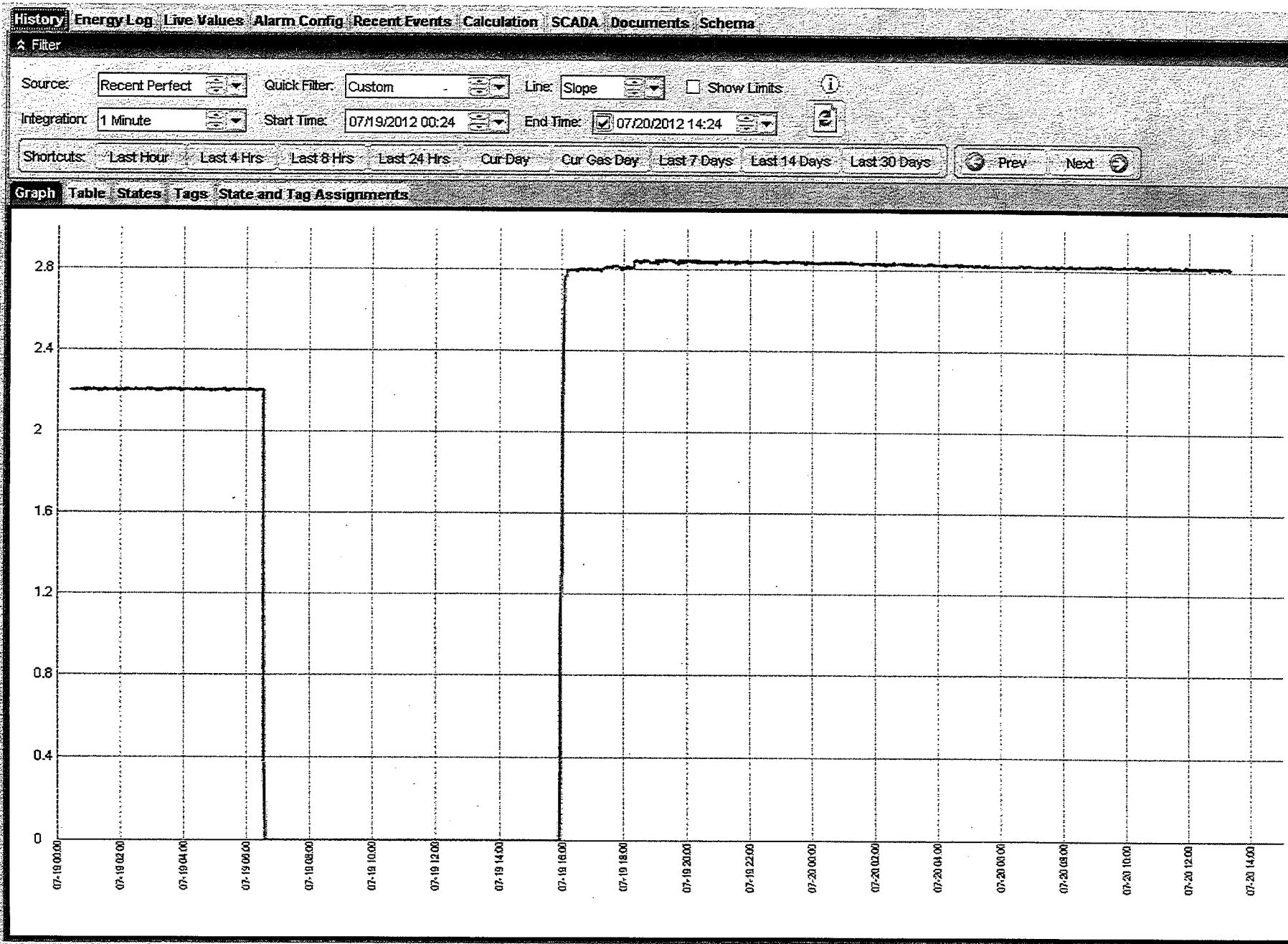
**Thanks**

**Bob**

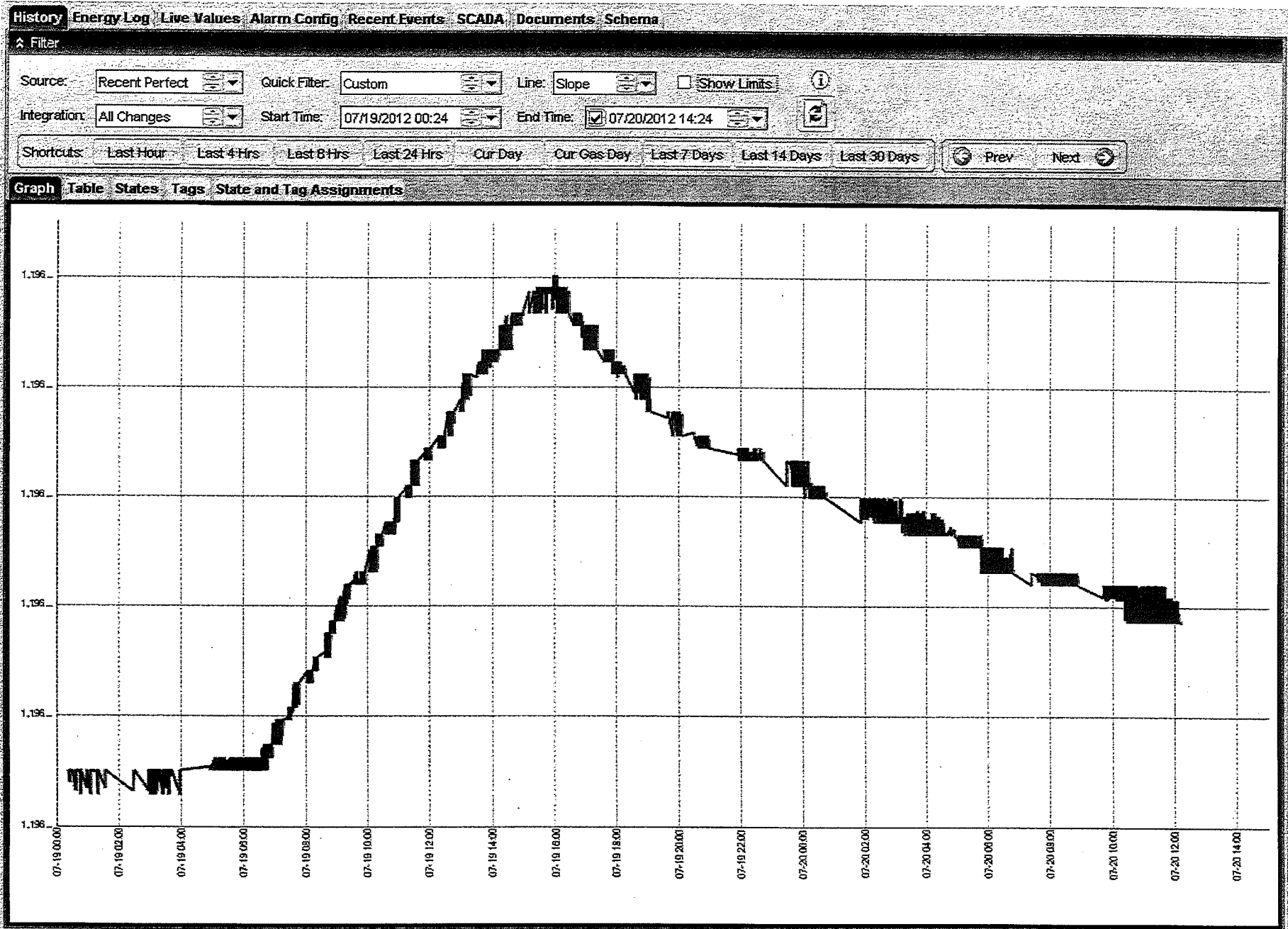
Robert J. Meyers  
UPPCO - Project Manager  
500 N.Washington St.  
Ishpeming, MI 49849  
phone desk: (906) 485-2419  
phone cell: (906) 362-8249  
email: [rjmeyers@uppcocom](mailto:rjmeyers@uppcocom)

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# Point Info - UPPCO-MCL: Total Generation

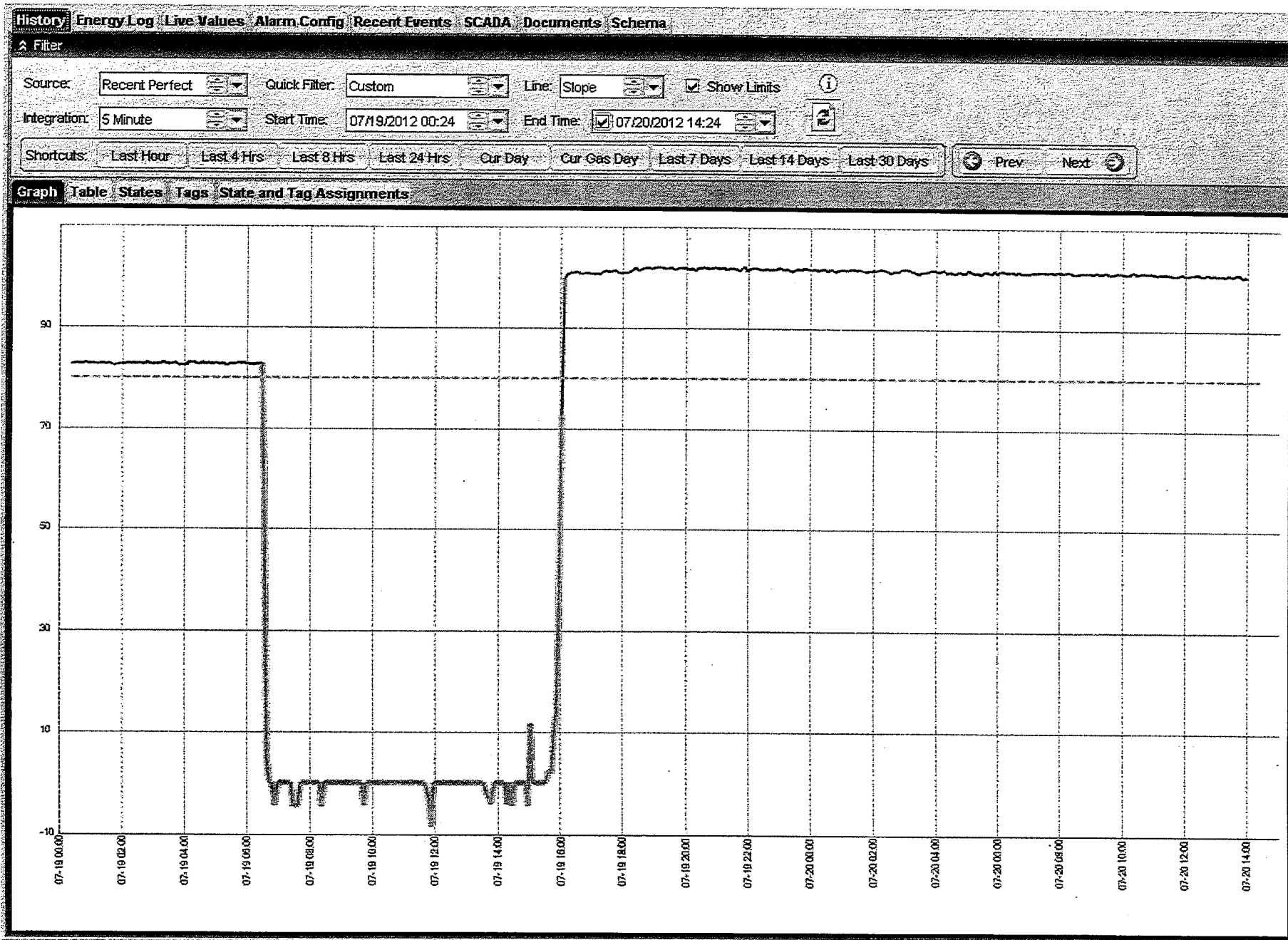


# Point Info - UPPCO-MCLD: Pond Elevation





# Point Info - UPPCO-MCL: Powerhouse Penstock Flow





Upper Peninsula Power Company

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

March 2, 2012

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:

Dead River Hydroelectric Project - Hoist Development  
Report of Deviation Minimum Elevation License Article 402 and Article 405 Ops Monitoring Plan

In accordance with Article 402, and 405 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 (FERC), Michigan Department of Natural Resources (MDNR), Michigan Department of Environmental Quality (MDEQ), 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 and/or reservoir elevations are exceeded. Please consider this letter as fulfillment of the notification requirement of these deviations.

On Thursday, February 23, 2012, elevation at the Hoist Hydroelectric Project fell below the end of the month minimum elevation of 1337.0 feet when the pond reached 1336.96 feet.

The agencies (MDEQ, MDNR, USFWS and DRCI) were informed by email on Thursday, February 23, 2012, of the event, which triggered dry year consultation. We are currently waiting on replies from the group on consultation efforts.

Should 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 black ink, appearing to read "T. Jensky", written in a cursive style.

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

VES/ebr

Enc: E-mail Correspondence to Agencies

cc: Mr. Gil Snyder, WPSC - D2  
Mr. Shawn Puzen, IBS - D2  
Ms. Joan Johaneck, WPSC - D2  
Mr. Dave Giesler, IBS - D2  
Mr. Ben Trotter, IBS - D2  
Mr. John Myers, IBS - D2  
Mr. Keith Moyle, UPPCO - UISC  
Mr. Virgil Schlorke, UPPCO - UISC  
Mr. Robert Meyers, UPPCO - UISC  
Mr. Howard Giesler, WPSC - PUL  
Ms. Peggy Harding, FERC - CRO  
Ms. Patricia Grant, FERC - CRO

**Rushford, Emily B**

---

**From:** Meyers, Robert J  
**Sent:** Thursday, February 23, 2012 10:34 AM  
**To:** 'vincent\_cavalier@fws.gov'; 'pisczekp@michigan.gov'; 'Jim Grundstrom'; 'gmensch@kbic-nsn.gov'; Casey, Steven; 'kohlheppg@michigan.gov'; 'taftw@michigan.gov'  
**Cc:** Puzen, Shawn C; Egtvedt, Gregory W; Schlorke, Virgil E; Rushford, Emily B  
**Subject:** Dead River Project FERC No. 10855 - Hoist Minimum Elevation Notice License Article 402 & Article 405 Ops Monitoring Plan - Dry Year Consultation

Gang,

As predicted with the low snow and winter precipitation the Hoist elevation has now fallen below the license limit of 1337.00 for February. Currently it is at 1336.96 ft NGVD. We are at the minimum flow of 100 cfs from the Hoist.

Please advise with your concerns or recommendations regarding operations.

FERC will be notified of the condition.

I will return to keeping you posted once every other week on conditions, until we return to normal operational conditions.

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)

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

April 13, 2012

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), the U.S. Fish and Wildlife Service (FWS) and the Dead River Campers Inc (DRCI).

The agencies and other interested parties (MDEQ, MDNR, FWS and DRCI) were first informed via e-mail of the reservoir elevation being higher than start-of-month target elevation for the month of April on March 30, 2012.

In addition, comments on a planned deviation for the May "Start-of-Month Target Reservoir Elevation" were presented. Due to spring runoff occurring at least 2 months early and a forecasted dryer than normal spring, it is planned to target the reservoir elevation for the first of May one foot higher (1341.0 feet NGVD vs. 1340.0 feet NGVD) than the license target. This will support the summer recreation season.

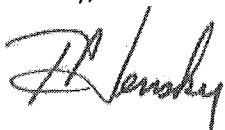
UPPCO obtained mutual agreement among MDNR, MDEQ and the DRCI on the planned deviation with no comments from the FWS. The documentation of consultation is enclosed.

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

Ms. Kimberly D. Bose  
April 13, 2012  
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

Enc. E-mail correspondence

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. Dave Giesler, IBS - D2	Mr. Kyle Kruger, MDNR
	Mr. Ben Trotter, IBS - D2	Mr. Steve Casey, MDEQ
	Mr. John Myers, IBS - D2	Mr. Jamie Bettaso, FWS
	Mr. Keith Moyle, UPPCO - UISC	Mr. Gene Mensch, KBIC

**Rushford, Emily B**

---

**Subject:** RE: Hoist Basin proposal  
**Expires:** Sunday, April 13, 2014 12:00 AM

---

**From:** Taft, Bill (DEQ) [mailto:TAFTW@michigan.gov]  
**Sent:** Monday, April 02, 2012 2:30 PM  
**To:** Meyers, Robert J  
**Cc:** Kruger, Kyle (DNR); Casey, Steve (DEQ); Carpenter, Koren (DEQ); 'Darryll Sundberg'; Kohlhepp, Gary (DEQ); 'vincent\_cavalier@fws.gov'; 'Jim Grundstrom'; 'gmensch@kbic-nsn.gov'; Puzen, Shawn C  
**Subject:** Hoist Basin proposal

Robert – as you are aware, under normal operating conditions prescribed in the 401 cert/license, UPPCO would draw the Silver Lake Basin down over the summer to maintain Hoist Basin water levels. Since Silver Lake still isn't full, this is unlikely to happen this summer. We, therefore, concur with UPPCO and Dead River Campers that it would be prudent to draw Hoist Basin down to the summer operating level of 1341 rather than 1340. This will likely reduce the duration of license non compliance during the later summer and fall months of 2012. The DNR and DEQ concur with this plan of operation.

*William H. Taft*, Aquatic Biologist  
Surface Water Assessment Section  
Water Resources Division  
Michigan Department of Environmental Quality  
517-335-4205  
[taftw@michigan.gov](mailto:taftw@michigan.gov)

**Rushford, Emily B**

---

**From:** Meyers, Robert J  
**Sent:** Friday, March 30, 2012 10:20 AM  
**To:** Meyers, Robert J; 'gmensch@kbic-nsn.gov'; 'Jim Grundstrom'; 'Taft, Bill (DNRE)'; 'kohlheppg@michigan.gov'; 'Mitch Koetje'; 'vincent\_cavalier@fws.gov'; 'Casey, Steven'; 'KRUGERK@michigan.gov'  
**Cc:** Puzen, Shawn C; Schlorke, Virgil E; Rushford, Emily B; Egtvedt, Gregory W  
**Subject:** Dead River License Start of Month Target - Hoist

Folk,

April 1st coming up on Sunday, and the License indicates we should target 1337.5 ft with minimum elevation 1337.0 ft for the Hoist basin.

Current Conditions: Spring runoff is for all indented purpose over, little to no snow left in the woods, pond elevations have leveled off and are not currently rising.

Silver Lake is at 1480.53 ft - "Need to go to 1485.2 ft. for FERC re-fill requirement"

Hoist	1342.84 ft
McClure	1195.81 ft

Output conditions: Silver Lake going from 15 cfs to 25 cfs for Sunday 4/1 requirement of Minimum Flow.

Hoist - Currently only one unit has been available at 200 cfs, Monday 4/2 we anticipate both units available and can go to 320 cfs to reduce the pond.

McClure - matching Hoist output, with 20 cfs in the siphon at the dam.

Our intent is to target Hoist pond down to the May start of Month elevation of 1340.0 if possible over the next 30 days, but with the anticipated dry conditions forecasted it might be better to strive to hold the June start of Month elevation at 1341.0 to have more water available going into the summer.

Will keep the group updated as we progress over the next few weeks.

Bob

Robert J. Meyers  
Project Manager - UPPCo  
500 N.Washington St.  
Ishpeming, MI 49849  
906 362-8249 (cell)  
906 485-2419 (work desk)

**Rushford, Emily B**

---

**From:** Jim Grundstrom [jimgrundstrom@freichevy.com]  
**Sent:** Friday, March 30, 2012 11:09 PM  
**To:** Meyers, Robert J; 'gmensch@kbic-nsn.gov'; 'Taft, Bill (DNRE)'; 'kohlheppg@michigan.gov'; 'Mitch Koetje'; 'vincent\_cavalier@fws.gov'; 'Casey, Steven'; 'KRUGERK@michigan.gov'  
**Cc:** Puzen, Shawn C; Schlorke, Virgil E; Rushford, Emily B; Egtvedt, Gregory W; Jim Grundstrom  
**Subject:** RE: Dead River License Start of Month Target - Hoist  
**Attachments:** Response to RJM E mail of 3 30 2012.docx

Ladies and Gentlemen: Attached is our thoughts from Dead River Campers, Inc. with regards to the situation as we find it concerning the unusual conditions this winter so far and the future of water elevations in the Hoist Basin Reservoir. Thanks very much for taking the time to read our thoughts. Jim Grundstrom, DRCI President

-----Original Message-----

From: Meyers, Robert J [mailto:RJMeyers@uppco.com]  
Sent: Friday, March 30, 2012 10:20 AM  
To: Meyers, Robert J; 'gmensch@kbic-nsn.gov'; Jim Grundstrom; 'Taft, Bill (DNRE)'; 'kohlheppg@michigan.gov'; 'Mitch Koetje'; 'vincent\_cavalier@fws.gov'; 'Casey, Steven'; 'KRUGERK@michigan.gov'  
Cc: Puzen, Shawn C; Schlorke, Virgil E; Rushford, Emily B; Egtvedt, Gregory W  
Subject: Dead River License Start of Month Target - Hoist

Folk,

April 1st coming up on Sunday, and the License indicates we should target 1337.5 ft with minimum elevation 1337.0 ft for the Hoist basin.

Current Conditions: Spring runoff is for all indented purpose over, little to no snow left in the woods, pond elevations have leveled off and are not currently rising.

Silver Lake is at 1480.53 ft - "Need to go to 1485.2 ft. for FERC re-fill requirement"

Hoist	1342.84 ft
McClure	1195.81 ft

Output conditions: Silver Lake going from 15 cfs to 25 cfs for Sunday 4/1 requirement of Minimum Flow.

Hoist - Currently only one unit has been available at 200 cfs, Monday 4/2 we anticipate both units available and can go to 320 cfs to reduce the pond.

McClure - matching Hoist output, with 20 cfs in the siphon at the dam.

Our intent is to target Hoist pond down to the May start of Month elevation of 1340.0 if possible over the next 30 days, but with the anticipated dry conditions forecasted it might be better to strive to hold the June start of Month elevation at 1341.0 to have more water available going into the summer.

Will keep the group updated as we progress over the next few weeks.



**Re: Response to agencies related to Dead River / Hoist Basin E mail**

**From Robert Meyers dated 3/30/2012**

**From: Dead River Campers, Inc.**

**Dated: 3/30/21012**

**Thank you for the opportunity to provide input concerning the elevation of the Hoist Basin as of 3/30/2012, and the most unusual moisture conditions that we currently find in the area. We concur with Bob and his assessment that the Ice is completely gone, which of course eliminates any potential shoreline ice damage. We also concur that there is no snow remaining to melt, the ground is drying quickly, and small streams feeding the Basin are dramatically relaxing in volumes of water flowing. We also concur that 1342.8 is high and has potential shoreline erosion. Although there is also potential shoreline erosion when the elevation is lower than wished for, and more importantly low elevations make recreation almost impossible in the western 1/3 of the Basin.**

**It is also once again important to remind any participants viewing this document that in the past Dead River Campers, Inc. and its member campers voted for a target elevation of 1342, and this information had been conveyed to the "agencies" in the past and once again as a reminder. It is also important to know that Dead River Campers, Inc. is also aware that the "agencies" have determined that the start of month target elevations should be set in April and in May at 1340, and in the months of June, July and August that number is increased to 1341.**

**We believe that without starting high and generating down to the target elevations there is no documented evidence that it is possible to manage the target elevation in the past since the failure of the fuse plug at Silver Lake. Very pointedly you cannot make water fall from the sky and Silver Lake has not been able to provide any sustainable volume of water to make the target elevations happen.**

**We also believe that the target elevations of 1340 in the months of April and May are actually counterproductive to maintaining the 1341 elevations in June, July and August as the need to generate power combined with evaporation makes the elevation drop almost no matter what UPPCO attempts to do. Guaranteed consistent rain during the summer is something that cannot be counted on.**

We believe that this year in particular is the perfect time to suggest that in the months of April and May the start of month target elevation be increased to 1341, which would match June, July and August and allow the Hoist Basin Reservoir to start higher than in the past and help create a sustainable elevation during the summer months.

We all probably agree that no matter how you calculate the relationship of “water in as compared to Water out”, and you can view the measuring stations till you are literally blue in the face, and do the math, the Hoist Basin elevation needs to be higher in April and May if we are ever to find a mutually agreeable level of water during June, July and August.

So, Dead River Campers, Inc. wants to respectfully encourage and support generating down to 1341 without the use of the low volume discharge. We also would strongly encourage the process of changing for this year as an experiment the start of month target elevation in April and May be increased to 1341. We all seem to concur that the amazing drought conditions experienced this past winter, seem to be continuing this spring, and for the next possible 30 to 60 days it does not seem to be changing. The potential for the driest summer on record recently could easily take place.

We would like to have more water longer in the Basin. To do so, we all need to work together to make this happen. Slowly generating down to an increased target elevation has not been tried since the Silver Lake failure. We know that the past practice of using the hope system in April and May to increase the elevation from 1340 to 1341 in June, July and August is at best most difficult to acquire and hold 1341.

Please consider our suggestion as an experiment that just might work.

Now, if Silver Lake water is able to support the Hoist Basin elevation in any substantial format during the months of June, July and August for the first time since the failure of Silver Lake that of course has not been tried either, and might be the solution, as history would show.

Bottom line, more water in the spring, being displayed as a higher starting elevation in the appropriate months, (1341 start of month for April through August) would be our suggestion for the management of the Hoist Basin this summer.

Thank you again for listening to the Dead River Campers, Inc. suggestions and thoughts.

Jim Grundstrom, President



Upper Peninsula Power Company

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

May 31, 2012

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 Projects  
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 (MDNR), Michigan Department of Environmental Quality (MDEQ), 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.

The Hoist plant tripped at 18:22 EDT, Sunday, May 20, 2012, due to transmission system faults from trees on the line attributable to heavy rain and high winds. An operator was called and after arriving at the plant opened the Low Level Outlet (LLO) to reestablish the 100 CFS minimum flow at 19:50 EDT. After the trees were cleared the unit was returned to normal service at 20:19 EDT, and then the LLO was closed at 20:55 EDT. No adverse environmental effects were noted.

The agencies (MDEQ, MDNR, USFWS and DRCI) were informed of the event via e-mail on Monday, May 21, 2012.

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 black ink, appearing to read "T. J. Jensky", written in a cursive style.

Terry P. Jensky  
Vice President – Generation Assets  
Wisconsin Public Service Corporation

RJM/ebr

Enc: May 21, 2012 E-mail Notification to Agencies

cc: Mr. Gil Snyder, WPSC - D2  
Mr. Shawn Puzen, IBS - D2  
Ms. Joan Johaneck, WPSC - D2  
Mr. Dave Giesler, IBS - D2  
Mr. Ben Trotter, IBS - D2  
Mr. John Myers, IBS - D2  
Mr. Keith Moyle, UPPCO - UISC  
Mr. Virgil Schlorke, UPPCO- UISC  
Mr. Robert Meyers, UPPCO - UISC  
Acting Regional Engineer, FERC - CRO

## **Rushford, Emily B**

---

**From:** Meyers, Robert J  
**Sent:** Monday, May 21, 2012 12:40 PM  
**To:** Meyers, Robert J; 'gmensch@kbic-nsn.gov'; 'Jim Grundstrom'; 'Taft, Bill (DNRE)'; 'Mitch Koetje'; 'Kohlhepp, Gary (DNRE)'  
**Cc:** Puzen, Shawn C; Schlorke, Virgil E; Rushford, Emily B  
**Subject:** Dead River License Article 403 - Hoist Minimum Flow Deviation, Pond Elevation deviation 5/20/2012

Gang,

Hoist Plant tripped yesterday due to storm, and tree down on the transmission line. The Minimum flow was deviated.

Plant was off at 18:22 EDT and following reaching the plant, the operator, got the Low Level outlet opened to establish flow at 19:50 EDT.

The Plant was returned to service at 20:19 EDT, and then the LLO was Closed at 20:55 hours.

There were no environmental effects from the plant outage.

FERC will be notified of the event.

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)

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**Upper Peninsula Power Company**

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

www.uppco.com

June 27, 2012

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 403, 405, and 408 Minimum Flows, Operations Plan and Water Quality

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 (MDNR), Michigan Department of Environmental Quality (MDEQ), 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.

The Hoist plant tripped on Tuesday, June 19, at 09:57 EDT, due to transmission system faults from trees (off the right of way) that fell on the line attributable to heavy rain and high winds. An operator was called and after arriving at the plant, opened the Low Level Outlet (LLO) to re-establish the 100 cfs minimum flow at 10:50 EDT. After the trees were cleared, the unit was returned to normal service at 13:47 EDT, and the LLO was closed at 14:25 EDT. No adverse environmental effects were noted.

The agencies (MDEQ, MDNR, USFWS and DRCI) were informed of the event via e-mail on Wednesday, June 20, 2012.

Also, Pursuant to Article 408 of the Project License and the water quality monitoring plan for the Dead River Hydroelectric Project, UPPCO is monitoring dissolved oxygen and temperature in the Dead River downstream of the Hoist Powerhouse. Dissolved oxygen and temperature monitoring is being conducted in the natural river channel in the SE ¼ of the NE ¼, Section 16, T48N, R26W (Township of Negaunee). The monitoring location is approximately 1,250 yards downstream of the hydroelectric plant. The dissolved oxygen water quality standard at this monitoring location is 7.0 mg/l.

Per the monitoring plan, temperature data is collected on an hourly basis from May 1 through October 31. Dissolved oxygen data is collected hourly from June 1 through September 30. On Tuesday, June 19, at 11:00 EDT, the dissolved oxygen level observed downstream of the Hoist powerhouse was 6.7 mg/l. The likely cause of the low dissolved oxygen level was a trip of the hydroelectric plant as described above.

Ms. Kimberly D. Bose  
June 27, 2012  
Page 2 of 2

Due to the distance between the hydroelectric facility and the monitoring location, and the time it takes for water to travel between the two locations, a decrease in dissolved oxygen levels was not observed when monitoring data was collected at 10:00 EDT. Prior to and after the 11:00 EDT reading, dissolved oxygen levels in the Dead River were 7.3 mg/l. Power was restored to the plant at 13:18 EDT. Generation resumed at 13:47 EDT and a flow of approximately 104 cfs was then re-established through the generator. The lower level outlet was closed at 14:25 EDT.

Attached for your review are a table and a graph of the dissolved oxygen monitoring data collected between June 1 and June 19.

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 – Generation Assets  
Wisconsin Public Service Corporation

RJM/ebr

Enc: June 20, 2012 E-mail notification, Dissolved oxygen monitoring data table, Dissolved oxygen monitoring data graph

cc:	Mr. Gil Snyder, WPSC - D2	Mr. Robert Meyers, UPPCO - UISC
	Mr. Shawn Puzen, IBS - D2	Mr. Bill Taft - MDEQ
	Ms. Joan Johaneck, WPSC - D2	Mr. Mitch Koetje - MDEQ
	Mr. Dave Giesler, IBS - D2	Mr. Burr Fisher - FWS
	Mr. John Myers, IBS - D2	Mr. Kyle Kruger - MDNR
	Mr. Keith Moyle, UPPCO - UISC	Mr. John Zygaj, FERC - CRO
	Mr. Virgil Schlorke, UPPCO- UISC	

**Rushford, Emily B**

---

**From:** Meyers, Robert J  
**Sent:** Wednesday, June 20, 2012 10:58 AM  
**To:** Meyers, Robert J; 'gmensch@kbic-nsn.gov'; 'Taft, Bill (DNRE)'; 'kohlheppg@michigan.gov'; 'Mitch Koetje'; 'vincent\_cavalier@fws.gov'; 'Casey, Steven'; 'KRUGERK@michigan.gov'; Jim Grundstrom  
**Cc:** Puzen, Shawn C; Schlorke, Virgil E; Rushford, Emily B  
**Subject:** Dead River License Article 403, 405 Hoist Minimum Flow Deviation on June 19, 2012

Gang,

On Tuesday Morning June 19th the Hoist Plant tripped off line at 9:57 EDT reducing the minimum flow. Operator was dispatched to the plant. The LLO was opened at 10:50 EDT. The plant was returned to service at 13:47 EDT, and the LLO was closed at 14:25 EDT. The cause of the plant trip was from a tree that fell on the transmission line. The tree was from off the right away the fell due to high winds & storm at the time. Once the tree was removed the plant was able to restarted.

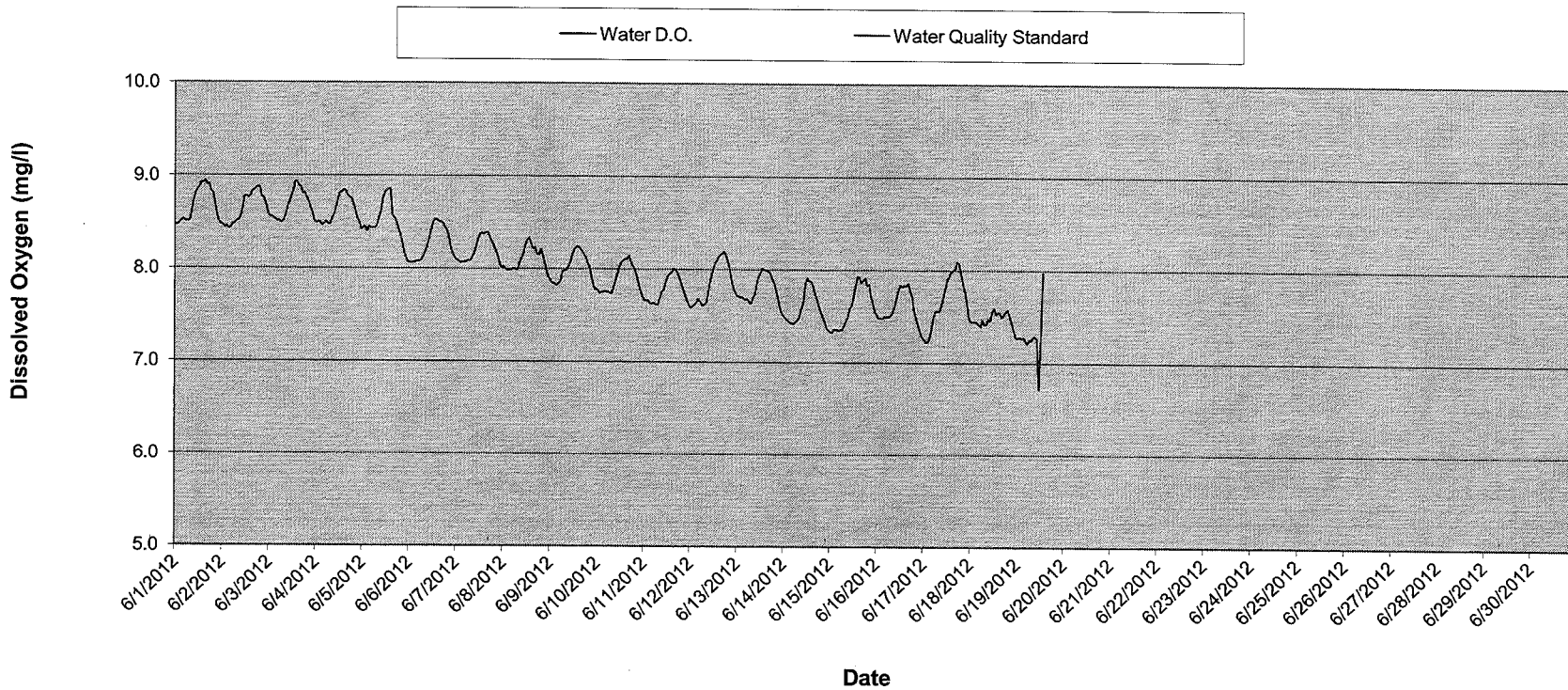
There were no environmental issues with the outage, and FERC will be notified of the event as part of the annual requirement since the deviation was less than 60 minutes.

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)

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### Hoist Powerhouse Dissolved Oxygen Summary - June 2012





Dead River Below Hoist Powerhouse - June 2012 Dissolved Oxygen Monitoring Data

Time	06/17/12	06/18/12	06/19/12	06/20/12	06/21/12	06/22/12	06/23/12	06/24/12	06/25/12	06/26/12	06/27/12	06/28/12	06/29/12	06/30/12
0	7.3	7.4	7.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10000	7.2	7.4	7.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20000	7.2	7.4	7.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30000	7.3	7.4	7.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40000	7.4	7.4	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50000	7.5	7.4	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60000	7.6	7.5	7.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70000	7.6	7.4	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80000	7.6	7.4	7.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90000	7.6	7.5	7.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100000	7.7	7.5	7.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110000	7.8	7.5	6.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120000	7.9	7.6	7.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130000	7.9	7.5	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140000	8.0	7.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150000	8.0	7.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160000	8.0	7.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170000	8.1	7.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180000	8.1	7.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
190000	8.0	7.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
200000	7.9	7.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
210000	7.8	7.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
220000	7.7	7.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
230000	7.5	7.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Daily Max	8.1	7.6	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Daily Min	7.2	7.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Average	7.7	7.5	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Dead River Below Hoist Powerhouse - June 2012 Dissolved Oxygen Monitoring Data

Time HHMMSS	06/01/12	06/02/12	06/03/12	06/04/12	06/05/12	06/06/12	06/07/12	06/08/12	06/09/12	06/10/12	06/11/12	06/12/12	06/13/12	06/14/12	06/15/12	06/16/12
0	8.5	8.5	8.6	8.5	8.4	8.1	8.1	8.0	7.9	7.8	7.7	7.6	7.7	7.5	7.3	7.5
10000	8.5	8.4	8.6	8.5	8.5	8.1	8.1	8.0	7.8	7.7	7.7	7.6	7.7	7.5	7.3	7.5
20000	8.5	8.5	8.5	8.5	8.4	8.1	8.1	8.0	7.8	7.7	7.7	7.6	7.7	7.5	7.4	7.5
30000	8.5	8.4	8.5	8.5	8.5	8.1	8.1	8.0	7.8	7.8	7.6	7.7	7.7	7.4	7.4	7.5
40000	8.5	8.4	8.5	8.5	8.4	8.1	8.1	8.0	7.8	7.8	7.6	7.7	7.7	7.4	7.3	7.5
50000	8.5	8.5	8.5	8.5	8.4	8.1	8.1	8.0	7.9	7.8	7.6	7.7	7.7	7.4	7.3	7.5
60000	8.5	8.5	8.5	8.5	8.4	8.1	8.1	8.0	8.0	7.7	7.6	7.6	7.7	7.4	7.4	7.5
70000	8.5	8.5	8.5	8.5	8.5	8.1	8.1	8.0	8.0	7.7	7.6	7.6	7.6	7.5	7.4	7.5
80000	8.6	8.5	8.6	8.5	8.5	8.2	8.1	8.1	8.0	7.8	7.7	7.6	7.7	7.5	7.4	7.5
90000	8.7	8.6	8.6	8.6	8.6	8.3	8.2	8.1	8.0	7.9	7.8	7.8	7.7	7.6	7.5	7.6
100000	8.8	8.7	8.7	8.7	8.7	8.3	8.2	8.2	8.1	7.9	7.8	7.9	7.8	7.6	7.6	7.7
110000	8.9	8.8	8.8	8.7	8.8	8.4	8.3	8.3	8.2	8.0	7.9	8.0	7.9	7.9	7.6	7.8
120000	8.9	8.8	8.8	8.8	8.8	8.5	8.4	8.3	8.2	8.1	7.9	8.0	8.0	7.9	7.7	7.8
130000	8.9	8.8	8.9	8.8	8.9	8.5	8.4	8.3	8.2	8.1	8.0	8.1	8.0	7.9	7.8	7.8
140000	8.9	8.8	8.9	8.8	8.9	8.5	8.4	8.3	8.2	8.1	8.0	8.1	8.0	7.9	7.9	7.8
150000	8.9	8.8	8.9	8.8	8.6	8.5	8.4	8.2	8.2	8.1	8.0	8.2	8.0	7.8	7.9	7.8
160000	8.9	8.8	8.9	8.8	8.5	8.5	8.4	8.2	8.2	8.1	8.0	8.2	8.0	7.7	7.9	7.9
170000	8.9	8.9	8.8	8.8	8.5	8.5	8.3	8.2	8.2	8.1	8.0	8.2	8.0	7.7	7.9	7.8
180000	8.8	8.9	8.8	8.8	8.4	8.4	8.3	8.2	8.1	8.0	7.9	8.2	7.9	7.6	7.9	7.7
190000	8.8	8.9	8.8	8.7	8.4	8.4	8.3	8.2	8.1	8.0	7.9	8.1	7.9	7.6	7.8	7.6
200000	8.7	8.8	8.7	8.6	8.3	8.3	8.2	8.1	8.0	7.9	7.8	8.0	7.8	7.5	7.8	7.5
210000	8.6	8.8	8.7	8.5	8.2	8.2	8.1	8.1	7.9	7.8	7.7	7.9	7.7	7.4	7.7	7.4
220000	8.5	8.7	8.6	8.5	8.1	8.2	8.0	8.0	7.8	7.8	7.7	7.8	7.6	7.4	7.6	7.3
230000	8.5	8.6	8.5	8.4	8.1	8.1	8.0	7.9	7.8	7.7	7.6	7.7	7.5	7.4	7.6	7.3
Daily Max	8.9	8.9	8.9	8.8	8.9	8.5	8.4	8.3	8.2	8.1	8.0	8.2	8.0	7.9	7.9	7.9
Daily Min	8.5	8.4	8.5	8.4	8.1	8.1	8.0	7.9	7.8	7.7	7.6	7.6	7.5	7.4	7.3	7.3
Average	8.7	8.7	8.7	8.6	8.5	8.3	8.2	8.1	8.0	7.9	7.8	7.9	7.8	7.6	7.6	7.6

Water Quality Standard: 7 mg/l Dissolved Oxygen



**Upper Peninsula Power Company**

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

November 15, 2012

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:

Dead River Hydroelectric Project - Hoist Development  
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 (MDNR), Michigan Department of Environmental Quality (MDEQ), 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.

The Hoist plant tripped at 06:35 EDT, Thursday, October 25, 2012, due to a transmission system fault due to heavy rain and high winds causing trees off the right of way to fall onto the line. An operator was called and by the time he arrived at the plant the fault had been cleared. The operator returned the plant to normal service at 08:00 EDT, reestablishing minimum flows. No adverse environmental effects were noted.

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 black ink, appearing to read "T. Jency".

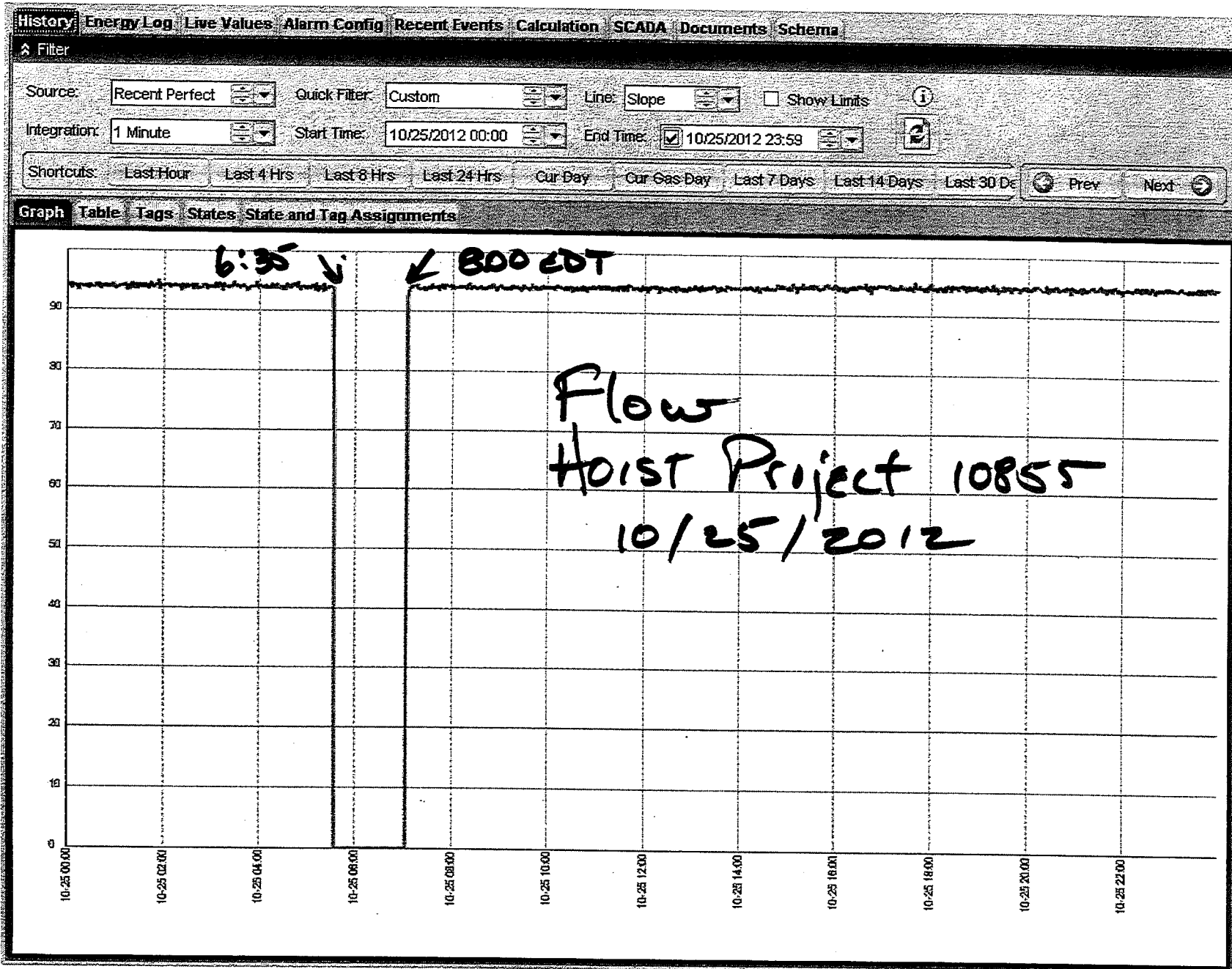
Terry P. Jency  
Vice President - Generation Assets  
Wisconsin Public Service Corporation

RJM/ebr

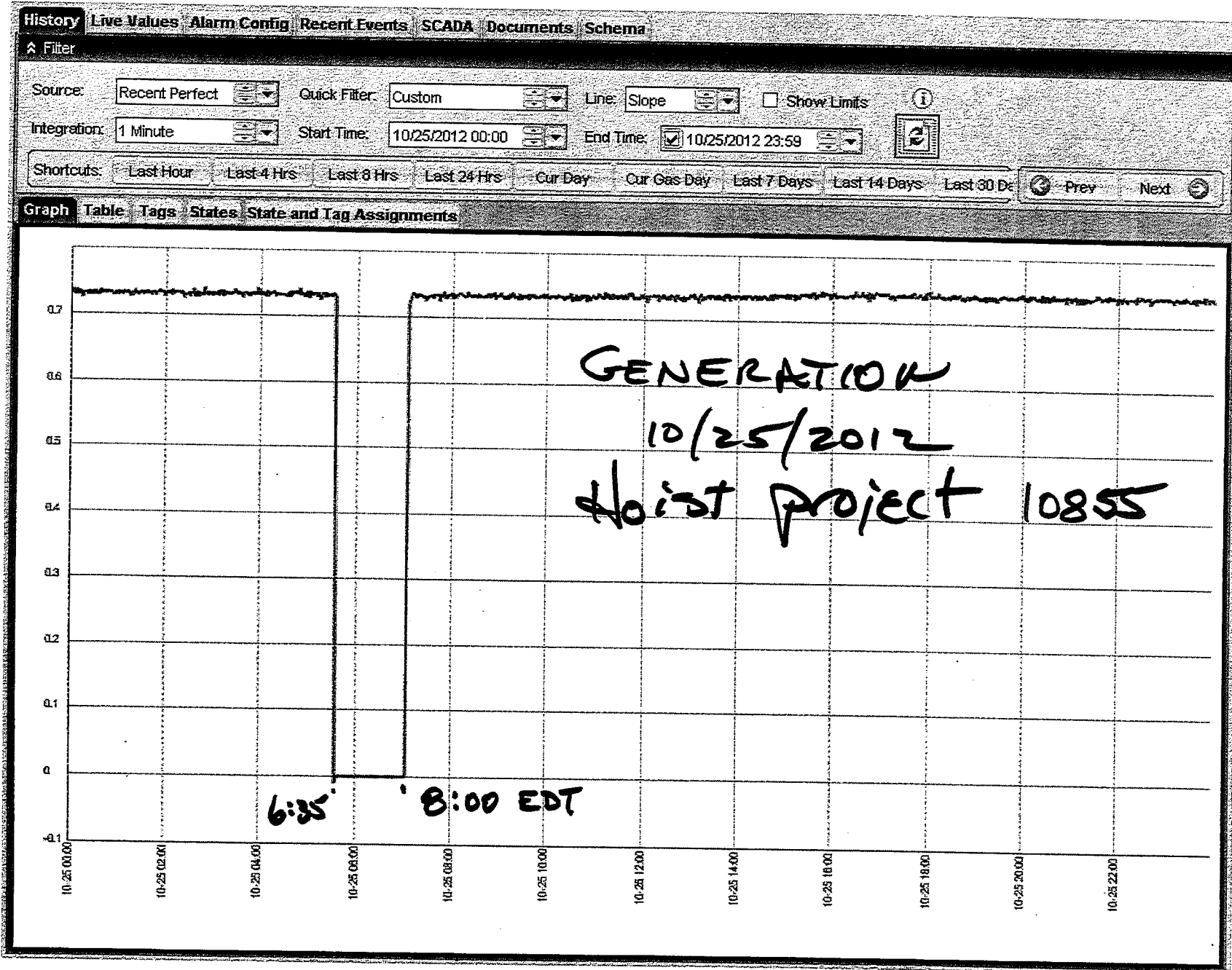
Enc: Unit Operational Graph, Flow & Generation

cc:	Mr. Gil Snyder, WPSC - D2	Mr. Jim Grundstrom, DRCI
	Mr. Shawn Puzen, IBS - D2	Mr. Kyle Kruger, MDNR
	Ms. Joan Johaneck, WPSC - D2	Mr. Bill Taft, MDEQ
	Mr. Dave Giesler, IBS - D2	Mr. Burr Fisher, USFWS
	Mr. Ben Trotter, IBS - D2	Mr. John Zygaj, FERC - CRO
	Mr. Robert Meyers, UPPCO - UISC	Mr. Virgil Schlorke, UPPCO - UISC
	Mr. John Myers, IBS - D2	Mr. Keith Moyle, UPPCO - UISC

# Point Info - UPPCO-HST: Total Plant Flow



# Point Info - UPPCO-HST3: Gross MW





Upper Peninsula Power Company

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

December 18, 2012

FERC Project No. 10855  
NATDAM No. 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 - McClure Development  
Article 402 & 403 Planned Deviation of Reservoir Elevation and Minimum Flows

In accordance with Articles 402 & 403 of the Order Issuing License for the Dead River Hydroelectric Project dated October 4, 2002, the licensee is required to report to the Federal Energy Regulatory Commission (FERC) any deviations associated with elevations and flows and the steps they used to mitigate them. Please consider this letter as fulfillment of the notification requirement of deviations.

Furthermore in accordance with Articles 402 & 403, storage basin elevations and minimum flow requirements may 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), the U.S. Fish and Wildlife Service (USFWS) and the Dead River Campers Inc (DRCI). The agencies (MDEQ, MDNR, USFWS and DRCI) were informed via e-mail on November 1, 2012, of a planned substation outage, starting on December 3, 2012, that would result in deviations of minimum flow conditions and water surface elevations at the McClure development. No comments were received from the MDNR, MDEQ, USFWS, and the DRCI.

On December 3, 2012, at 08:30 EST the plant went off line as scheduled. Thus the project deviated from the minimum flow condition of 80 cfs at the powerhouse at 08:30 EST, and reservoir elevation exceeded its maximum limit of 1196.4 at 12:30 EST. The substation work was completed on December 10, 2012, and the powerhouse brought back online reestablishing the minimum flow condition of 80 cfs at 14:30 EST. Following the reestablishment of minimum flow conditions the reservoir elevation returned to normal operating range at 20:30 EST on December 11, 2012.

No adverse environmental impacts were observed as a result of these deviations.

Ms. Kimberly D. Bose  
December 18, 2012  
Page 2 of 2

If you have any questions regarding this letter, please contact Robert Meyers at (906)485-2419 or Virgil Schlorke at (920) 485-2465.

Sincerely,



Terry P. Jensky  
Vice President - Generation Assets  
for Wisconsin Public Service Corporation

RJM/ebr

Enc. E-mail Correspondence

cc:	Mr. Gil Snyder, WPSC - D2	Mr. Virgil Schlorke, UPPCO - UISC
	Mr. Shawn Puzen, IBS - D2	Mr. John Zygaj, FERC (CRO)
	Ms. Joan Johaneck, WPSC - D2	Mr. Kyle Kruger, MDNR
	Mr. Dave Giesler, IBS - D2	Mr. Bill Taft, MDEQ
	Mr. Ben Trotter, IBS - D2	Mr. Mitch Koetje, MDEQ
	Mr. John Myers, IBS - D2	Mr. Burr Fisher, FWS
	Mr. Keith Moyle, UPPCO - UISC	Mr. James Grundstrom, DRCI
	Mr. Robert Meyers, UPPCO - UISC	

**Meyers, Robert J**

---

**From:** Meyers, Robert J  
**Sent:** Thursday, November 01, 2012 9:13 AM  
**To:** 'Burr\_Fisher@fws.gov'; 'Taft, Bill (DEQ)'; 'Kruger, Kyle (DNR)'; 'Mitch Koetje'  
**Cc:** Schlorke, Virgil E; Puzen, Shawn C; Nelson, William B; Gervae, Daniel J; Hegbloom, John A; Grigg, David M; Derwin, Timothy J  
**Subject:** Planned Deviaition - McClure Plant Pond Elevation and Flow

Folk,

Our Substation group needs a One Week outage for work from the Substation to the Powerhouse, for upgrades needed.

It is planned for December 3 starting at 08:30 until December 10 at 15:00 hours.

We plan to slowly raise the pond elevation and then spill at the Dam when generation is off.

Please comment.

Thanks, and any questions call or email me.

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: [rimeyers@uppcocom](mailto:rimeyers@uppcocom)

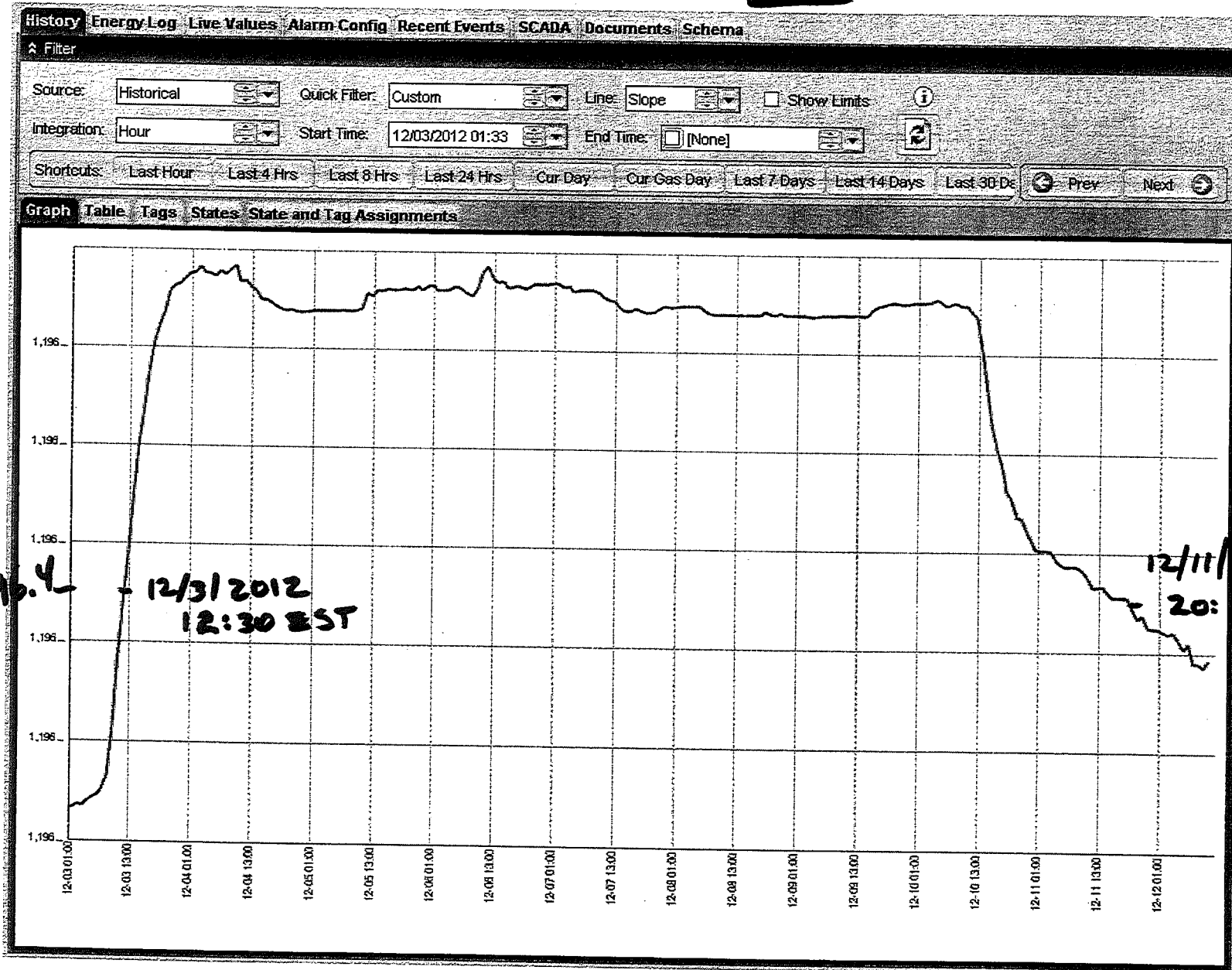
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**No Comments to E-MAIL**



# McCLURE Project No 10855

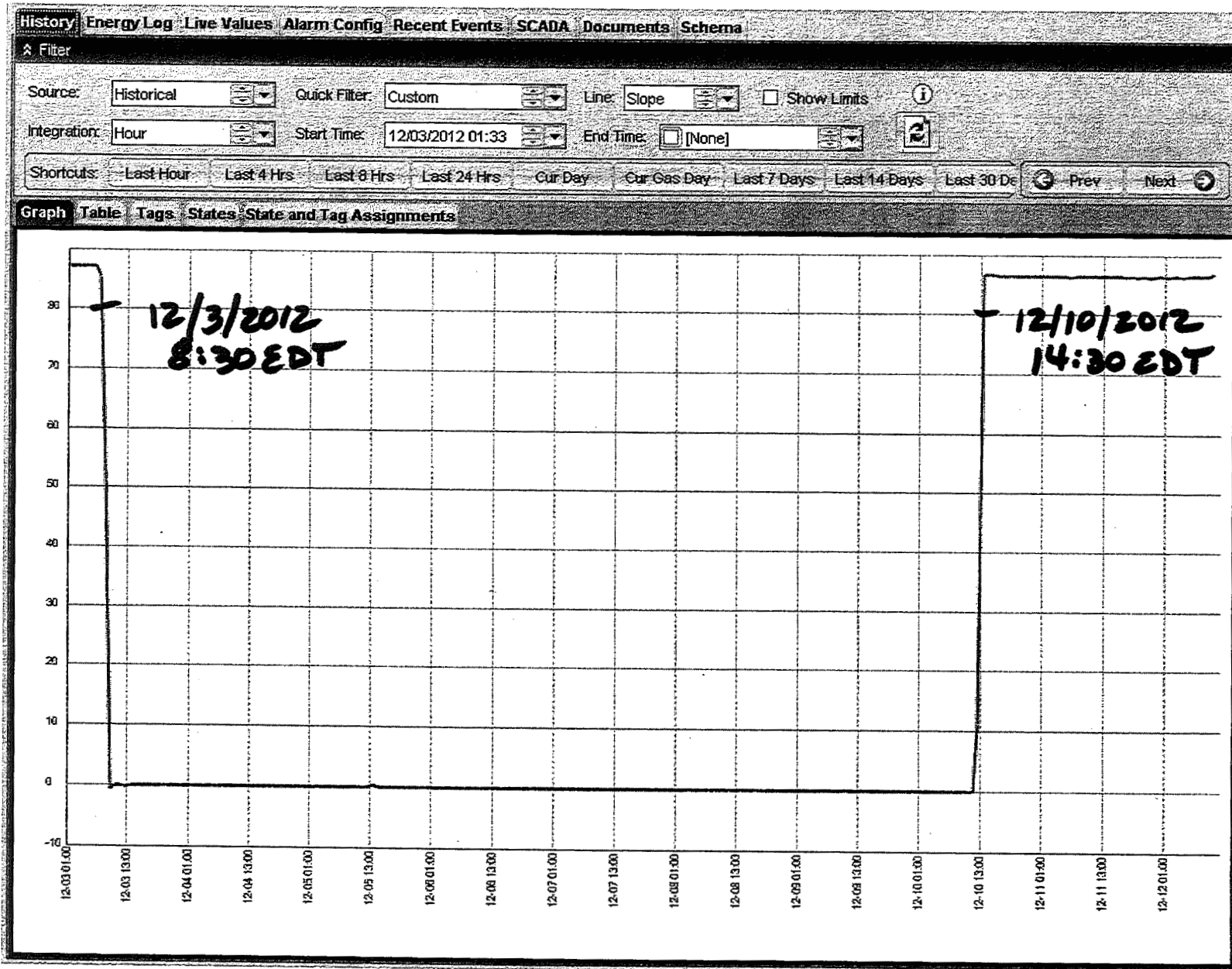
Point Info - UPPCO-MCLD: Headwater Elevation



12/12/2012 12:40 PM

# McClure Project No 10855 -

Point Info - UPPCO-MCL: Powerhouse Penstock Flow





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

December 21, 2012

FERC Project No. 10855  
NATDAM Nos. MI00183 and MI00175

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

Dear Secretary Bose:

Dead River Hydroelectric Project – Hoist & McClure Developments  
Articles 402 & 403 Planned Deviation – Dry Year Consultation Ending

In accordance with Articles 402 & 403 of the Order Issuing License for the Dead River Hydroelectric Project dated October 4, 2002, and as amended on September 1, 2011, the licensee is required to strive to operate the existing project facilities to achieve the start of month target elevations while also maintaining established minimum flows. The licensee is also required to report to the Federal Energy Regulatory Commission (FERC) any deviations associated with elevations and flows and the steps they used to mitigate them. Please consider this letter as fulfillment of the notification requirement of deviations.

Through the Dry Year Consultation Process, UPPCO obtained mutual agreement among the MDNR, MDEQ and DRCI on the planned deviations with no comments from the FWS. The planned deviations began June 27, 2012, with reducing the Hoist minimum flow to 90 cfs and the bypass flow at McClure to 10 cfs, with the McClure powerhouse staying at 80 cfs. It was agreed these deviations would stay in effect until the Hoist Reservoir elevation met monthly target elevations (See letter from UPPCO to the Commission dated July 6, 2012 and letter from the Commission to UPPCO dated August 3, 2012).

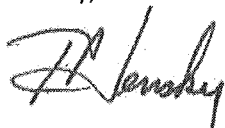
On December 1, 2012, the Hoist Reservoir elevation was at 1339.18 feet which is above the monthly target elevation of 1338.5, triggering the end of the Dry Year Consultation process and thus the planned deviations.

The Hoist powerhouse flow was returned to 100 cfs on December 5, 2012 and the McClure bypass flow was returned to 20 cfs on December 7, 2012. It should be noted that flows through the bypass were above 20 cfs through December 10, 2012, due to a planned outage at the plant resulting in flows over the spillway at the dam and into the bypass reach.

Ms. Kimberly D. Bose  
December 21, 2012  
Page 2 of 2

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

Sincerely,



Terry P. Jensky  
Vice President – Generation Assets  
for Wisconsin Public Service Corporation

RJM/ebr

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

         Mr. Virgil Schlorke, UPPCO - UISC  
         Mr. John Zygaj, FERC (CRO)  
         Mr. Kyle Kruger, MDNR  
         Mr. Mitch Koetje, MDEQ  
         Mr. Bill Taft, MDEQ  
         Mr. Burr Fisher, FWS  
         Mr. James Grundstrom, DRCI



Upper Peninsula Power Company

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

www.uppco.com

December 27, 2012

FERC Project No. 10855  
NATDAM No. 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 - McClure Development  
Article 402 & 403 Deviation of Reservoir Elevation and Minimum Flows

In accordance with Article 403 & 402 of the Order Issuing License for the Dead River Hydroelectric Project dated October 4, 2002, and as amended on September 1, 2011, the licensee is required to report to the Federal Energy Regulatory Commission (FERC) any deviations associated with flows and/or elevations and the steps they used to mitigate them. Please consider this letter as fulfillment of the notification requirement of deviations.

The McClure Unit 2 tripped at 04:34 CST, Thursday, December 13, 2012, due to bearing temperature. An operator was dispatched and after arriving at the plant determined the bearing was damaged and Unit 2 would remain unavailable. Unit 1 was also unavailable due to scheduled ongoing substation work. The operations group immediately contacted substation personnel and developed a jumper system that maintained required protection, but allowed Unit 1 to be returned to service early. Once returned to service, an operator put Unit 1 online reestablishing minimum flow at 10:32 CST on December 13, 2012.

During this event, the headwater (pond) elevation also exceeded the maximum elevation of 1196.4 at 07:30 CST, on December 13, 2012. When Unit 1 was put back in operation, the pond level returned to normal operating elevations at 22:30 CST, on December 13, 2012.

Upon further investigation it appears a set screw in an oil ring came free resulting in the oil ring binding, thus not providing sufficient lubrication to the bearing resulting in damage. We are currently scheduling repairs and plan to have the unit available for spring runoff.

No adverse environmental impacts have been observed as a result of this deviation.

Ms. Kimberly D. Bose  
December 27, 2012  
Page 2 of 2

If you have any questions regarding this letter, please contact Robert Meyers at (906) 485-2419 or Virgil Schlorke at (920) 485-2465.

Sincerely,



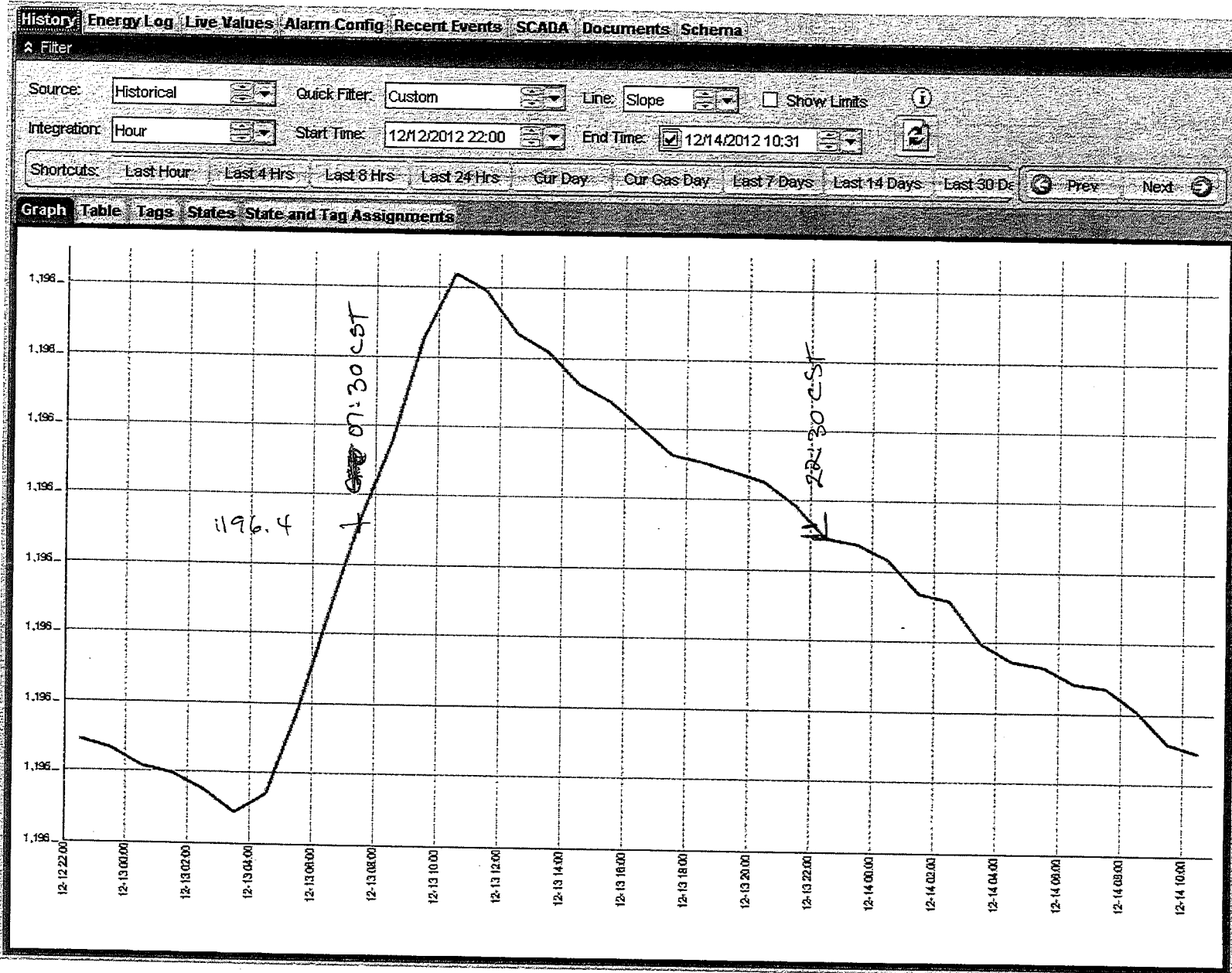
Terry P. Jensky  
Vice President - Generation Assets  
for Wisconsin Public Service Corporation

RJM/ebr

Enc. Operational data

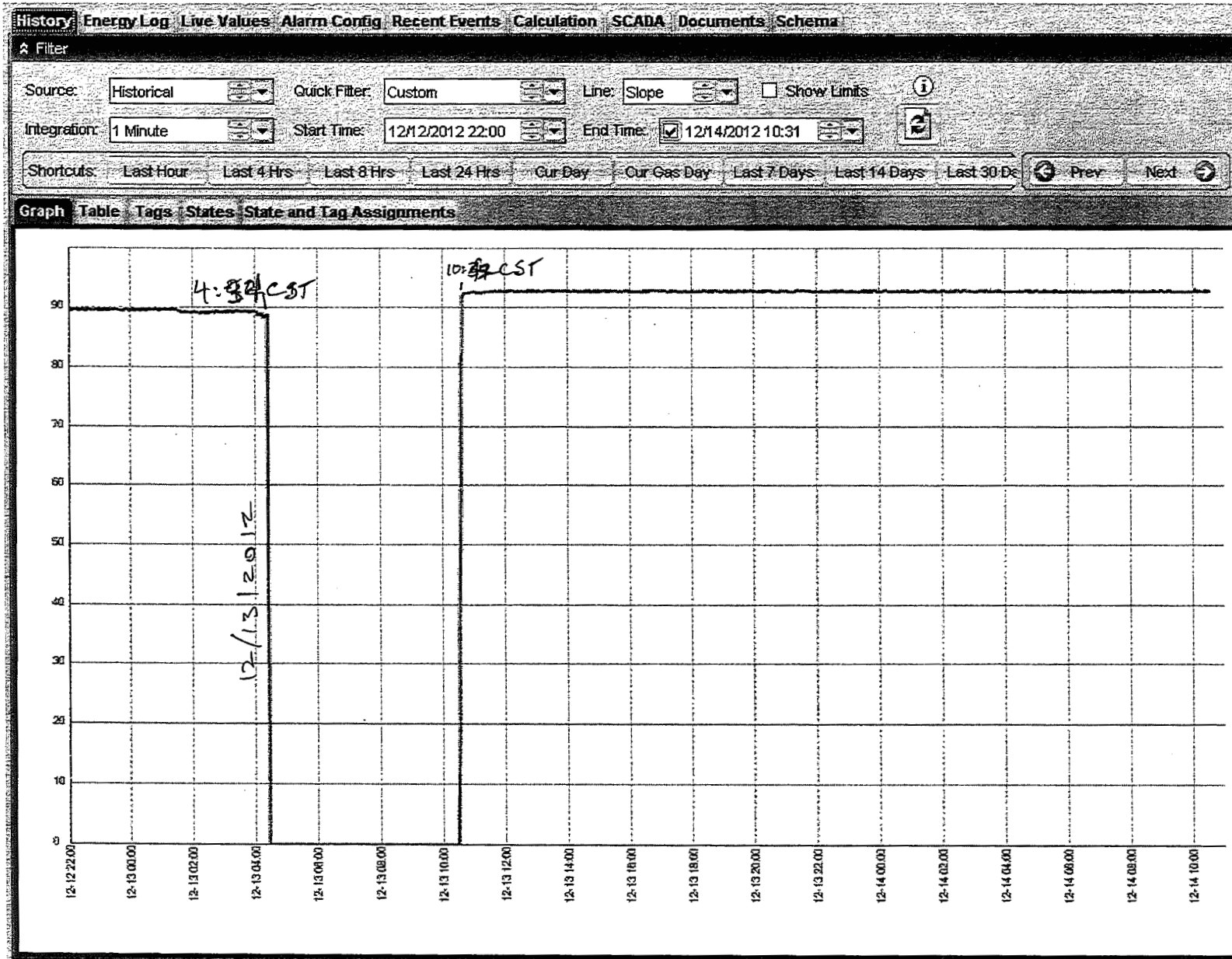
cc:	Mr. Gil Snyder, WPSC - D2	Mr. Robert Meyers, UPPCO - UISC
	Mr. Shawn Puzen, IBS - D2	Mr. John Zygaj, FERC (CRO)
	Ms. Joan Johaneck, WPSC - D2	Mr. Kyle Kruger, MDNR
	Mr. Dave Giesler, IBS - D2	Mr. Bill Taft, MDEQ
	Mr. Ben Trotter, IBS - D2	Mr. Mitch Koetje, MDEQ
	Mr. John Myers, IBS - D2	Mr. Burr Fisher, FWS
	Mr. Keith Moyle, UPPCO - UISC	Mr. James Grundstrom, DRCI
	Mr. Virgil Schlorke, UPPCO - UISC	

# Point Info - UPPCO-MCLD: Headwater Elevation



12/17/2012 11:30 AM

# Point Info - UPPCO-MCL: Total Generator Flow





# Appendix 3

## Summary of Gate and Valve Openings



Geotechnical  
Environmental and  
Water Resources  
Engineering

June 25, 2012  
Project No. 123810

Mr. Robert Meyers  
Upper Peninsula Power Company  
500 North Washington Street  
Ishpeming, MI 49849

**RE: Results of 2012 Flow Assessment Study -18-inch By-Pass Pipe,  
McClure Hydroelectric Dam, Marquette County, Michigan**

Dear Mr. Meyers:

GEI Consultants, Inc. (GEI) is pleased to provide you with a summary of the flow measurements conducted on the 18-inch HDPE by-pass pipe at the above-referenced project. The flow measurements were performed on Friday, June 22, 2012.

**Description of Work**

Jeff Bal, P.E. and Mike Gatzow, P.E. of GEI Consultants conducted flow measurements on the 18 inch HDPE bypass pipe at the McClure Dam. Jeff and Mike were assisted by UPPCO personnel. The measurements as summarized below were taken using a Dynasonics (Model TXFP) Portable Ultrasonic Transit Time Flow Meter. The meter was installed on the horizontal section of bypass pipe located at the base of the stairs located on the crest of the Dam. The meter was positioned at the same exact location as that used during last year's test. Measurements were recorded during varying "open" valve positions of the bypass pipe. Pertinent data taken at the time of the test is also included below:

**Date Work Performed:** Friday, June 22, 2012

**Time of Test:** Start at 10:45 a.m. (EST)

**Air Temperature:** 66.0 degrees F

**Surface Water Temperature:** 70.0 degrees F

**Water Elevation:** 1196.13

**Equipment:** Dynasonics Model TXFP Transit Time Meter

**Test Location:** 18" HDPE bypass pipe – horizontal run below stairs at top of dam.  
Meter centered on horizontal run.

Mr. Robert Meyers

- 2 -

June 25, 2012

**Test Parameter Conditions and Results**

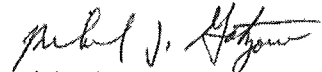
Discharge Valve Position (inches open)	Discharge Valve Max. Open (inches)	Percent Open	Metered Flow Rates	
			cu. ft./sec	gal/min
12.625	18.5	68.2%	19.70	8841
12.000	18.5	64.9%	18.80	8437
13.000	18.5	70.3%	20.20	9066
12.750	18.5	68.9%	20.00	8976

At the completion of the flow testing, the bypass discharge valve was positioned so that the flow rate of 20 cfs was observed.

We appreciate the opportunity to have provided these services and would like to thank your staff for assisting us during this work. If you have any questions concerning the data or results, please do not hesitate to contact Mike Gatzow at (906) 214-4153.

Sincerely,

GEI CONSULTANTS, INC.



Michael J. Gatzow, PE  
Senior Practice Leader

MJG:plw

cc: Mike Carpenter, GEI

**Silver Lake - Low Level Outlet Gate Operation Log - 2012**

Date: & Time	Pond Elevation feet - NGVD	LLO Position Open - Inch	Flow - CFS	Operator
01/01/12	1475.8	5.5 in	15	RJM
03/21/12	1479.49	5	15	DGrigg
03/30/12	1480.63	7	25.8	GB/JH
04/30/12	1480.52	6	20	DG/JR
06/01/12	1480.15	5	15.5	DGrigg
07/01/12	1480.36	3.75	10	JHegbloom
09/30/12	1478.85	5	15	DGrigg

**Hoist - Low Level Outlet Gate Operation 2012**

1/1/12		Closed	0	RJM
3/1/12 @ 10:00 AM	1336.76	100 Turns	100	GB/DG
3/1/2012 @ 2:10 PM	1336.76	Closed	0	DG
5/20/12 @ 19:50 PM	1341.07	100 Turns	100	JH
5/20/12 @ 20:55 PM	1341.07	Closed	0	JH
6/19/12 @ 10:20 AM	1340.52	100 Turns	100	DG
6/19/12 @ 14:30 PM	1340.52	Closed	0	DG
9/18/12 @ 17:13 PM	1337.8	90 Turns	90	JH
9/18/12 @ 20:02 PM	1337.78	Closed	0	JH
10/9/12 @ 5:30 AM	1337.3	90 Turns	90	DG
10/9/12	1337.3	Closed	0	DG

**FERC Project 10855**

## Appendix 4

### Documentation of Consultation

Document Content(s)

20130228 DRV out.PDF.....1-2

20130228 DRV out attach a.PDF.....3-5

20130228 DRV out attach b.PDF.....6-85