

ANNUAL SUMMARY 2014

RECORD OF FLOWS BELOW 2.2CMS

DATE	TIME	DURATION	REASON	REMEDY
01-Feb-14	3:11pm 5:50pm	6 min 6 min	Operator error. Both units were on Pond Control Mode (only one should be on pond at any given time). Causes miscalculation of available flow.	One unit was switched back to Gate Control Mode.
03-Jun-14	9:05pm	8 hr 45 min	Mechanical issues with brakes caused a shutdown. Operators changed multiple settings in an effort to resolve the issue. When restarted, all settings were not reset and machine opened up too much overnight.	Operator changed the settings back to where they should be at 5:50am, which backed the machine off and restored proper flows.
06-Jun-14	1:08pm	2 hr 48 min	Mechanical issues with hydraulic power unit caused constant stops and starts of the unit causing compensation flow to drop below minimum and suddely rise well above minimum many times over time period.	Settings were adjusted in the HPU.
23-Jun-14	10:18am	4 min	Unit shut down. On restart it overshot and brought flow slightly below minimum.	After initial overshoot, the unit automatically corrected and stabilized quickly.
07-Jul-14	10:43am	3 min	Unit shut down after bearings overheated while testing new cooling system. On restart unit overshot slightly.	After initial overshoot, the unit automatically corrected and stabilized quickly.
10-Jul-14	7:05am	5 hr 40 min	Lowered headpond level to allow for safe installation of American Eel Net.	After net was installed, level brought back up.
11-Jul-14	12:41pm	1 hr 4 min	Enerdu shutdown, our unit reduced output and operated at the low end of the target range (typically operates at the high end).	Unit eventually shut down and then only came back online once headpond level was restored.

13-Jul-14	5:57am	3 min.	Enerdu shutdown. Our unit shut down right away, but then overshoot slightly on restart.	Unit overshoot on restart, but corrected itself automatically after only a couple of minutes.
14-Jul-14	4:55am	2 min.	Enerdu shutdown. Our unit shut down right away, but then overshoot slightly on restart.	Unit overshoot on restart, but corrected itself automatically after only a couple of minutes.
15-Jul-14	5:15am	5 hr 32 min	Headpond was only slightly below setpoint for a couple of minutes at a time, many times over this 5.5 hour period. Started with an Enerdu shutdown and our unit was having difficulty regulating.	Operator increased headpond setpoint to help system regulate.
19-Jul-14	7:15am	2 min.	Enerdu installed the second half of their flashboards on the upper falls, effectively cutting off the bulk of the flow to our intake.	The level was only slightly low for a couple of minutes, as our unit adjusted quickly.
20-Jul-14	5:17am 6:01am	2 min. 2 min.	With significantly lower flow incoming our system was having trouble regulating. Headpond dropped slightly below target for a few minutes at a time.	Operator made adjustment to target range to allow for lower seasonal flows.
29-Jul-14	6:33pm	11 hr 48 min	Compensation flow was at or above minimum for most of this time, but dropped below for a few minutes at a time, several times. This started with an Enerdu shutdown, which caused our unit to shut down. It then continually started and stopped over the next 11 hours, attempting to stay in the target range.	When Enerdu restarted in the morning, the problem resolved itself.
01-Sep-14	5:50am	6 hr 58 min	Similar to previous event, in that the flow was only below target for a couple of minutes at a time during this period. Enerdu had both units running and both shut down suddenly.	Our station responded by shutting one unit down. When water level rose, the 2nd unit tried to restart which drew the level down too far again. This continued until the operator made the 2nd unit unavailable to restart.

14-Sep-14	4:03pm	27 min.	Operators lowered the headpond to accommodate a local charity event using the river (Lamb Races - Mississippi Valley Textile Museum).	Level was corrected after the event was over.
02-Dec-14	3:51am	36 min.	Hardware issue. A relay that controls multiple devices was malfunctioning. It caused the unit to stop and restart several times. When it eventually stayed online, it overshot.	After restarting and overshooting, the unit scaled back and eventually regulated the level/flow.