

ANNUAL SUMMARY 2012

RECORD OF FLOWS BELOW 2.2CMS

DATE	TIME	DURATION	REASON	REMEDY
25-Feb-12	10:59pm	9hrs	Heavy frazil ice. ENERDU sudden shut down caused incoming water to drop drastically in a matter of seconds.	Frazil ice preventing adequate supply of water from entering through racks. ENERDU also had frazil ice problems, suddenly shut them down. One unit shut down, the other shut back slowly, not quick enough to avoid drop in headpond. It stayed running longer than it should have. We adjusted settings to have units shut down quicker in these situations. Also appears as though headpond sensor was temporarily iced up.
04-Apr-12	9:02am	3hr 20min	ENERDU lost one unit. Our units were set on Gate Control mode instead of Pond Control.	Lead unit was switched to Pond Control mode, which allows it to react to Headpond water levels.
20-Apr-12	8:00am	1hr 5 min	Unit #2 acting strangely after major damage to penstock.	Shut unit #2 down, while diagnosing the problem.
01-May-12	10:25am	20 min.	Unit #2 was using more water than it should have been during testing.	Testing concluded and #2 shut down again.
19-May-12	9:07am	2min, 7min & 3min over 2 hour period.	Sudden shut down by ENERDU.	Our machine backed off and then shut down, but headpond dropped slightly below level for a few minutes. When ENERDU restarted and spiked, ours followed suit and dropped level slightly again for a few minutes.
21-May-12	9:35am	3min, 3min & 2min over 20 minute period	Sudden shut down by ENERDU.	Our machine backed off and then shut down, but headpond dropped slightly below level for a few minutes. When ENERDU restarted and spiked, ours followed suit and dropped level slightly again for a few minutes.

21-May-12	11:52am	2min	ENERDU startup. Our machine overshot and briefly brought headpond level down.	System corrected itself, by backing off the unit.
25-May-12	12:37am	8min	Our machine was shut down. It restarted, but overshot the start, pulling in too much water. Headpond slightly low for a few minutes.	System corrected itself, by backing off the unit.
27-May-12	9:29am	3min	ENERDU shutdown. Our system backed off the unit a little too slowly, causing the headpond to drop slightly for a few minutes.	System corrected itself, by backing off the unit.
4-Jun-12	1:20pm	1hr 31min	Level lowered slightly for Geotechnical review of Millfall Dam and Bywash.	Level brought back to normal once review was completed.
15-Jun-12			Major failure of penstocks detected. Unit #2 had already been shut down, then unit #1 shut down on the 15th.	No control over levels for remainder of year, after both units shut down.