

DERAGGER II

ELIMINATING PUMP BLOCKAGES

Ross Point SPS
Client: Scottish Water

The pumping station is adjacent to Burntisland Beach which is one of only seven “Blue Flag” Scottish beaches. “Blue Flag” is an internationally recognized standard for beaches with excellent water quality and are continually monitored to ensure the highest standards are maintained.

Project History:

Pumping station rags up on a regular basis which required daily intervention from operational staff to ensure the environmental impact is minimised.

At least twice a week the pumps had to be lifted and cleaned to enable the pumping station to continue to operate.

The pumping station was attracting a higher than average operational spend requirement which prompted the investment into the Deragger II® pump control.

Data

Before:

| | |
|---|-----------------------|
| No of operator pump lift and clean due to pump ragging: | 2/wk* ¹ |
| Pump full load current: | 6.7amps* ² |

After:

| | |
|---|-----------------------|
| No of operator pump lift and clean due to pump ragging: | Zero* ⁴ |
| Pump full load current: | 4.1amps* ² |
| No of deragging cycles: | 297* ³ |

Source

*1 - Scottish Water Operations daily site diary and Operations team leader

*2 - On site measurement in normal conditions

*3 - Deragger II log download between 26/4/11 and 24/6/11

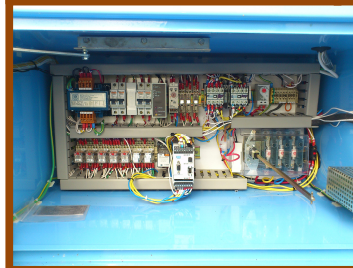
*4 - Deragger II log download between 26/4/11 and 24/6/11 and Operations site diary and operational staff

Site Specifics:

- DERAGGER II ® fitted to 2 of 3.1kW DOL pumps.
- Install date April 2011

Outcomes:

- No ragging issues since installation.
- Reduce electricity consumption by 35%.
- Cost benefit of £8,112 in first year.
- Payback period of 5 months (standard CBA calculation)



The DERAGGER II is a low voltage electric motor management system with state-of-the-art technology and network communication capabilities that provides Anti-Ragging functionality to wastewater pumps.

DERAGGER II
MONITOR PROTECT CONTROL

CLEARWATER
CONTROLS

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THE SOLUTION IS CLEAR