

RAGGING PREVENTION FOR UNITED UTILITIES

CONVEYED PRODUCT

Primary sludge

KEY SPECIFICATIONS

Reduce ragging blockages
Quicker removal of any blockages

COST SAVINGS

**MAINTENANCE
COSTS REDUCED**

**RAGGING REDUCED
WITH SAVINGS OF
£2,000 PER MONTH**

**2 YEARS IN
OPERATION WITH ONE
RAGGING BLOCKAGE**

PUMP TYPE

BN 35-6LS with SCT

BACKGROUND

An unmanned WwTW operated by United Utilities at Tarvin experienced problems with ragging on primary sludge treatment pumps. Engineers had to be called out every week to de-rag the three progressive cavity pumps, incurring high maintenance costs.

TASK

To supply a reliable pump which reduces the incidence of ragging blockages and hence the number of call outs to this unmanned site. Should ragging occur the pumps had to be easy to unblock.

SOLUTION

BN 35-6LS pumps fitted with Smart Conveying Technology (SCT) replaced the three existing pumps. SCT has two advantages where ragging is an issue.

- The design of the stator, clamped by four retaining segments, means that the pump is less likely to suffer from ragging blockages.
- Where blockages do occur they can be cleared quickly by removal of half of the stator.

The SCT pumps have been installed for over 2 years with only one callout to the engineering team for blockage removal.

BENEFITS

- 3 month return on investment
- £2,000 savings in maintenance per month
- One call out in 2 years for engineering work
- Reduced manpower requirements for maintenance when needed

