

Challenge

Issue

At a paper plant, a critical hydrate slurry pump with a high concentration solids had infrequent high vibration which posed a threat to equipment reliability.

The vibration expert could take only point-in-time measurements and was unable to detect when the vibration reached at its maximum.



Pulp and Paper industry.

Solution

Overview

- A Chesterton Connect™ sensor was installed on a **Chesterton 180 Mechanical Seal** to monitor stuffing box pressure and temperature, as well as on the outboard radial bearing to monitor vibration and surface temperature (see image below).
- Using the **Chesterton Connect** sensor, the user was able to monitor vibration 24/7, access the historical data, and understand precisely when the high vibration was happening.



Chesterton Connect sensor installed in pump.

Results

Client Reported

Thanks to the **Chesterton Connect** sensor's real-time alerts, the vibration expert was called when the vibration was at its peak, and the customer was able to spot the issue causing high vibration.

The customer was able to apply the proper maintenance assessments successfully, to prevent the high infrequent vibrations from damaging the critical equipment.



Chesterton Connect solution.