

# Stringent Insurer Safety Requirements met with Mobrey Hydrastep Steam Drum Level Monitoring

## RESULTS

- Increased safety
- Compliance to insurer's requirements
- Redundant level measurement
- Clear, continuous level indication

## APPLICATION

Steam drum level measurement

## CUSTOMER

A waste treatment specialist company, France

## CHALLENGE

A newly constructed waste treatment plant was the first of its kind in France. The plant processes over 400,000 tons of municipal waste from the Marseille province. The waste is sorted into plastics, metals, organic and combustible materials. The organic waste is used to produce bio-gas and compost, and the combustible waste fuels the furnace to create super critical steam which is used to generate power. This power is then sold onto the national electric company.

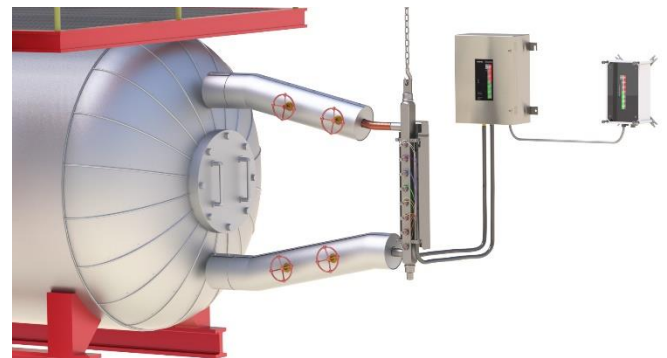
Any steam raising plant will use steam drums, and these steam drums require accurate and reliable level measurement to ensure the safety of the plant. The waste treatment plant was already using differential pressure (DP) transmitters to measure and control the level within their two steam drums. However, after a recent review, the plant's insurers were concerned that if the DCS was to fail, the DP measurement would be lost and there would be no way of knowing the level within the steam drum. This could lead to the steam drum running dry, or rising level and water entering the steam turbine, both critically dangerous situations. The insurers insisted on an additional measurement on the steam drum which would be independent of the DCS.

## SOLUTION

The plant's operators were aware of Hydrastep and approached us for a solution. A specialist visited the plant to discuss requirements and advise on installation. One Hydrastep system was installed on each drum. Each system used two input boards for dual redundancy; should one board ever fail, the Hydrastep would still report the correct level.



*"The Hydrastep systems are reliable and the insurers are happy."*



*Illustration showing the Hydrastep system*

## POWER

The Hydrastep is capable of interfacing with the DCS, but it was decided to keep it independent in case the DCS was to fail. Remote displays were positioned in the control room to give a clear and continuous indication of the level in each drum.

The plant's insurers were content that Hydrastep would give a reliable level measurement and would enable the customer to continue the safe operation of their plant.





*Mobrey Hydrastep 2468 Electronic Steam and Water Gauging System*

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### Delta Mobrey Limited

Riverside Business Park, Dogflud Way  
Farnham, Surrey, GU9 7SS, UK

-  +44 (0)1252 729 140
-  +44(0)1252 729 168
-  [sales@delta-mobrey.com](mailto:sales@delta-mobrey.com)