

/NEWTON'S Water Trap technology improves Kerosene water specification in a European refinery

/Background

A European refinery won a Kerosene supply contract to the near International airport.

The refinery faced concerns to control the water specification in the kerosene cut during the different seasons and could not respect contract kerosene water specification, (<70 ppm water).

The refinery decided to reach the technical target.

Newton's was contacted to propose Water Trap technology and compare with other technical solutions (Kerosene cooling).

/Solution,

The first step was to run the DRY MODEL® with the data Dryer sheet provided by the customer (Diameter, High of the bed, flow rate, water in, temperature, pressure)

First Model output was presented to the refinery and a Water Trap Program was proposed for a test.

Water Trap Ca associated with rock salt was the most appropriate combination to be implemented in this refinery.

/Results,

It was observed that the results are more consistent when using Water Trap program than cooling the kerosene temperature.

On the other hand, cooling water temperature has nearly no effect on haze result.

The target, 70 ppm water in the kerosene cut, was reached by implementing Water Trap program.

