

CASE STUDY

A Major Refinery in India



Problem

- Condensate carry over with steam at the pump seal because of wrong installation of the trap and routing thereby causing the pump seal to fail. The layout not as per API plan 62.

Objective

To reduce pump seal failure by controlling pressure and removing condensate to ensure dry steam reaches the pump seal.

Solution

Steam should be dry saturated at the point of application. Hence, we recommended installation of a single module comprising of a self-acting pressure reducing valve and a moisture separator in the supply line of quenching steam.

Benefits

- Long life for mechanical seals
- Steam supply is dry saturated and pressure is controlled precisely as recommended by API plan 62.
- Condensate deposited in the drain pocket is easily removed through the compact module thermodynamic trap