



# SIDE-STREAM FILTER: REMOVAL OF SUSPENDED SOLIDS IN CLOSED LOOP COOLING WATER SYSTEM

Filtersafe Case Study



## BACKGROUND & PROBLEM

Worried about possible degraded performance of the cooling tower, there was a need to prevent accumulation of contaminants in the circulating circuit. Contaminants could affect the functioning of equipment (Heat Exchangers, Condenser, Scrubbers & Boilers) causing downtime as well as create additional problems such as Fouling, Scaling and Metal Corrosion.

## INDUSTRY

Power Plant

## FILTERSAFE SOLUTION

The Horizontal BS150 8" model was installed and commissioned January 2017. With the flushing interval of about 3 hours, the patented 4 layered wired-screen efficiently removes solid particles. A 98% removal rate means smooth operations for the cooling system.

## APPLICATION

Side-stream Cooling Tower

## FILTERSAFE

- 30 years filtration experience
- 3000+ installations
- 10 microns upwards & 50-5,000 m<sup>3</sup>/hr
- modular filter technology

**Filtration Degree**

50 µm

**Filters**

BS101H-8"

**Flow Rate**

300 m<sup>3</sup>/h

**Application**

Side-stream Cooling Tower

**End User**

The Bangpa-in Power Plant, Thailand





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### BENEFITS TO CUSTOMER

- Smaller footprint compared to conventional filters.
- Superb cleaning efficiency with minimal downtime using patented technology and screen design.
- Far lower power consumption.
- Low discharge of backwash

### WATER COOLING PROCESS

