

**Application: AquaKLEAR provides a solution for problem in Power Station**

**Biofouling**

User: Da Lin Power Station, Taiwan (大林發電廠)

*The Site:*

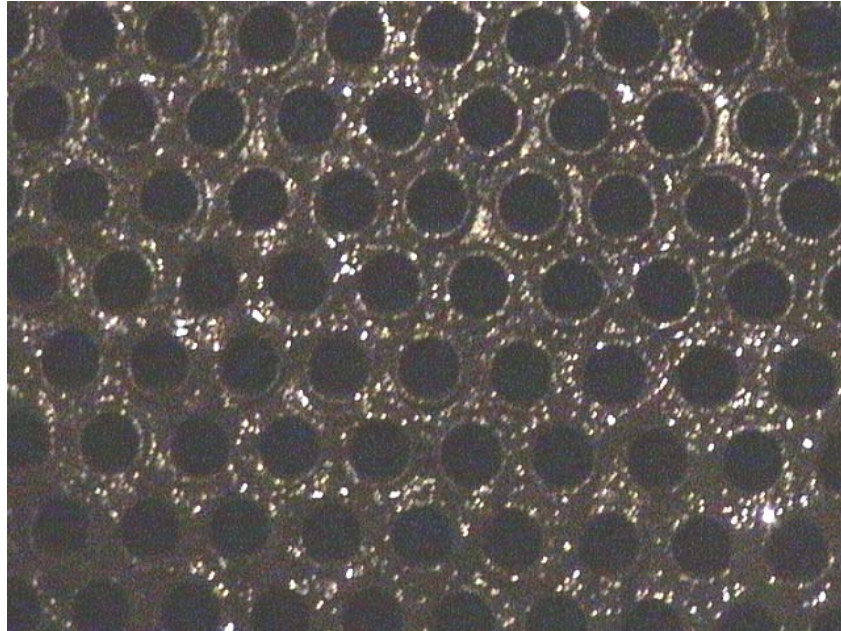
Seawater was used as a coolant in the heat exchanger, picture (A). Since the temperature inside the exchanger was below 50 , scale was not a big problem. The problem was biofouling, picture (B). Study shows that a layer of 250 microns thick microfouling can reduce heat transfer efficiency by up to 25%. Microfouling also reduces water flow and increases corrosion. At Da Lin Power Station, each exchanger operated for two months only and then it took three days or more for cleaning.



Picture (A)



Picture (B) - BEFORE



Picture (C) – AFTER

*The result:*

On November 2003, **AquaKLEAR** PU-10 was installed at position shown in Diagram [A]. After two months, the heat exchanger was opened for inspection. Biofouling was eliminated, picture (C). Cleaning was done by spraying water and took only one hour. Operators tried to extend the cleaning time to 6 months.

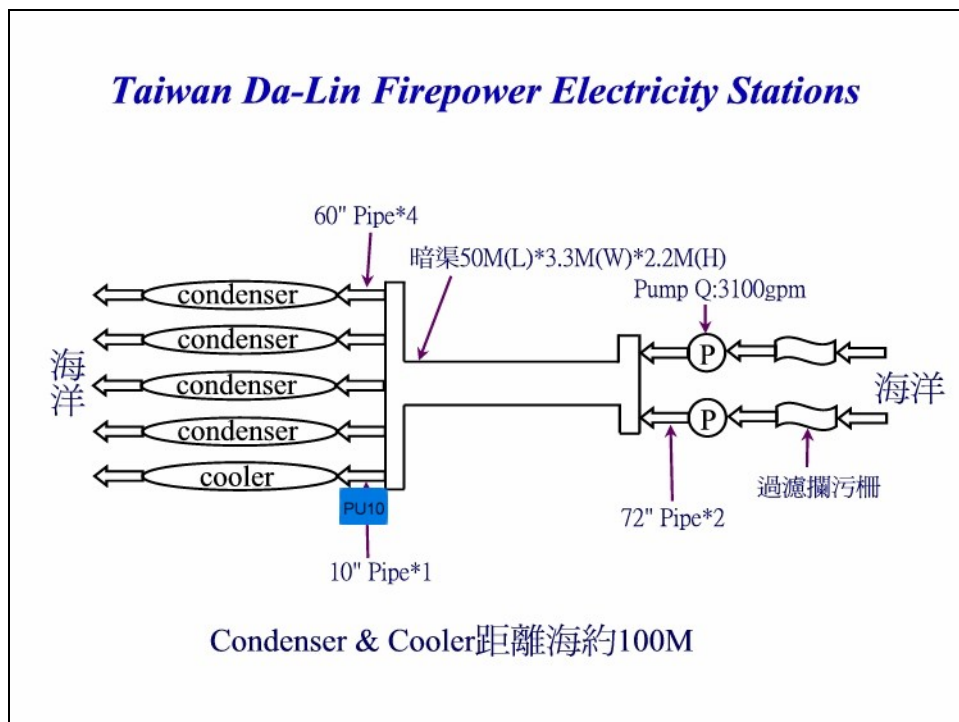
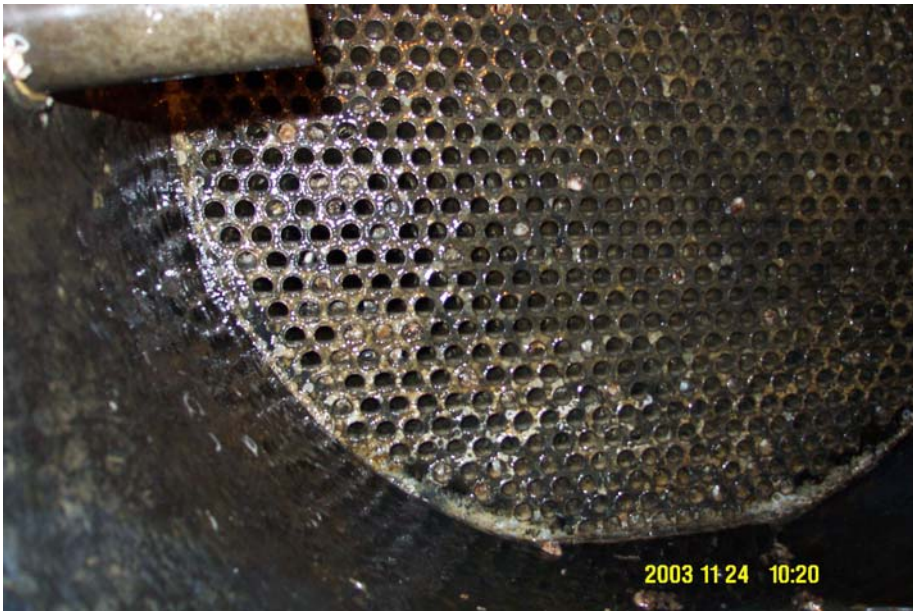
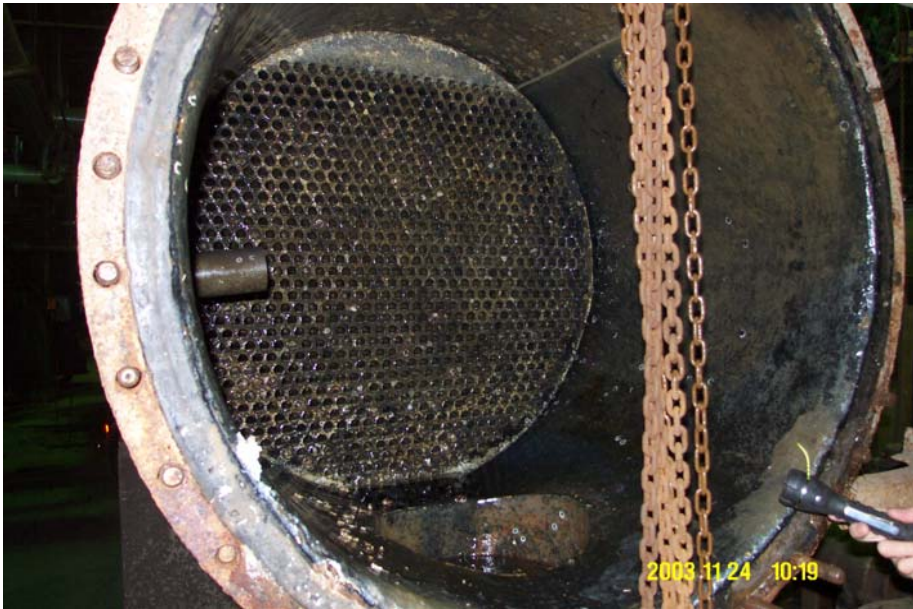


Diagram [A]



Da Lin Power Station, Taiwan