

COOLING WATER- 'PROBLEMS AND SOLUTIONS'

Course Content

PART I - COOLING WATER SYSTEMS – AN OVERVIEW

Water with some exceptional thermal and physical properties happened to be the most readily available medium, and is comparatively an economically viable coolant.

It is however reckoned that the quality of water, with regard to dissolved chemical constituents varies from source to source.

The primary cooling water sources could be any of the followings:

1. Surface Water: - Rivers, reservoirs, streams, lake or ponds.
2. Ground Water: - Shallow or deep well waters
3. Saline Water: - Sea, oceans or salty lake
4. Waste & Effluent Water: - Municipal waste, Industrial effluents, Gray water, Sewage

In General

- Surface water is fed from rain or streams. It contains considerable amount of dissolved suspended impurities.
- Lake water has more or less constant chemical analysis. It usually contains lesser amount of dissolved materials but has large quantities of organic matter.
- Spring or well water is cleaner in appearance but contains most of dissolved salts. These usually have high organic purity.
- The ground water supplies contain less suspended matter than the surface water supplies.
- Seawater is the most impure form of natural water. Seawater contains on average 3-5% of dissolved salts out of which 2.6% is NaCl.
- Because of environmental regulations of zero plant discharge, water cost and water scarcity, some plants use saline or effluents as cooling water.

Type of Cooling Systems

The salient features of three common cooling systems is described below:

1) Open Re-circulation Systems: Cooling Towers, Spray Ponds, Fountains

- The water is cooled as a result of evaporation, in direct contact with air.

Cooling Water Problems And Solutions

Raffaela Di Napoli

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