



Guidelines for Using AMSA BCP™ Chemistry in Start-up and Shut-down Procedures

Winter Shut-Down/layup

1. Cooling tower systems that are shut down are highly susceptible to corrosion, fouling and microbiological growth.
2. It is important to clean the cooling tower surfaces, control microbial activity and flush any suspended solids during the shut-down process.
3. AMSA BCP™ chemistry is a proven on-line cleaning chemistry that releases organic deposits from surfaces and provides a powerful cleaning action in the cooling tower. In a well-controlled cooling tower, dose 100 – 200 ppm of BCP™ Chemistry into the cooling tower. Allow it to circulate ideally for a 24 hour period. (Less circulation time will still allow for cleaning, but may not give optimal results.)
4. A strong biocide dose of a non-oxidizing biocide and/or biocide should be used following the clean-up dose of BCP™ chemistry to minimize bacteria in the cooling tower before shut-down.
5. Follow recommended shut-down procedures per the water treatment company that is servicing the tower.

Spring Start-up

1. During winter (wet or dry layup) storage, conditions exist that initiate corrosion, mineral scale deposits along with biological growth. These deposits must be removed during startup.
2. It is important to clean-out the debris and biological growth from the winter lay/up while you are starting up the cooling tower.
3. AMSA BCP™ chemistry is imperative to help mobilize the corrosion byproducts and debris in the cooling tower to allow it to be cleaned.
4. Along with the water treatment service company's recommended corrosion inhibitor package, dose BCP™ Chemistry at 100-200 ppm of product.
5. After the initial flush-out of the system as debris is suspended and removed, dose with oxidizing or a non-oxidizing biocide to kill the bacteria in the system.
6. Once the cooling tower is cleaned and the water treatment service company's start up procedures are followed, a maintenance dose of the scale and corrosion inhibitor, organic deposit cleaner/dispersant (such as BCP™ chemistry) and a biocide program can be re-established.

