

## **ADM Decatur, Illinois plant reports record low corrosion in HYDROLATOR's test cooling tower.**

HYDROLATOR was first installed March 6, 2001 on ADM's #1 cooling tower. This tower cools (6) plate & frame heat exchangers and many other process cooling components for their Decatur, IL plant. Brad Crookshank, superintendent of waste-water, reports that heavy deposition accumulated over years of chemical treatment, through-out #1 tower. The tower has been cleaning up and all heat exchangers which needed cleaning periodically in the past before Hydrolator was installed, ran clean and trouble-free through the summer of 2001.

Test spool pieces installed earlier and pulled from the Hydrolator cooling tower were clean to bare metal over half the surface and half had minimal coating. Spools from chemically treated cooling towers #2 and #3 were completely coated with a heavy deposit of chips and flakes.

The side stream filter auto/purge cycle count rose sharply after HYDROLATOR installation and is running higher than before March 6, confirming Hydrolator's powerful dissolution of deposits which will continue until the plant is free of biological and mineral deposits.

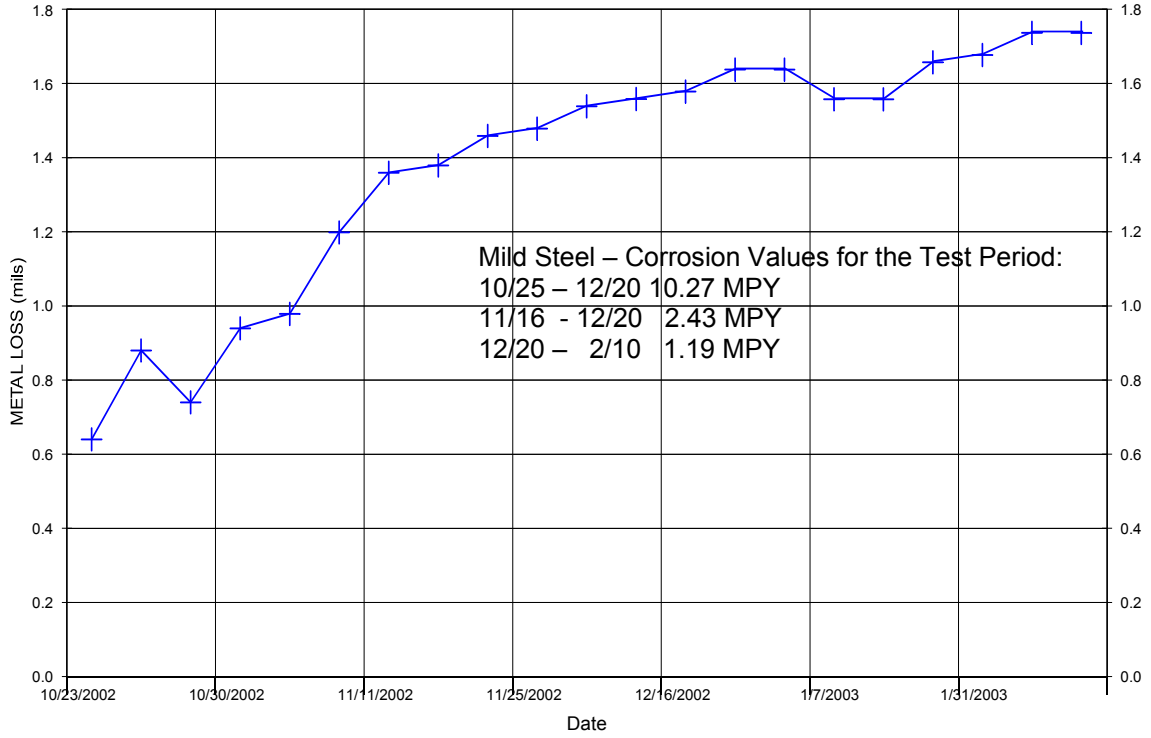
Since 3/6/01, none of the six plate and frame heat exchangers or other components clogged during clean-up, because all HYDROLATOR de-scaled material large enough to cause plugging, settles out quickly in HYDROLATOR controlled cooling tower basins. One plate and frame heat exchanger was recently opened and found to be the cleanest ever seen!

Lastly, despite occasional loss of biocide feed and contamination from process leaks since 3/6, the cooling circuit remains free of operating problems. For further information, call Ted Light or Bryan Selway at (410) 352-5524.

**Feb 20/03 Update – The following charts show mild steel and stainless steel corrosion activity from 10/20/02 to date. The graph for mild steel shows typically higher corrosion during clean-up of the system from 10.27 MPY down to 1.19 MPY as system passivates. This system could reach near or at zero corrosion, which we have seen in other plants.**

# ADM – Cooling Tower #1 Corrosion Report using Metal Samples MS 1500E with grounded Probe

Probe ID: 327   Probe Type: Cylindrical   Probe Life: 10 mils



Probe ID: 632   Probe Type: Wire Loop   Probe Life: 10 mils

