

# **Floating Baffle Curtain Genon Power Plant Rancho Cucamonga, California**

Genon power plant located in Rancho Cucamonga, California has an existing cooling pond for recycled water. They needed a solution to the flow water flow pattern in the pond. The retention time was too short to allow the water to cool down for reuse.

Engineered Textile Products was selected to supply and supervise the installation of 400 feet of floating baffle curtain, which would provide a solution to their problem. The baffle curtain was positioned to change the flow pattern and to increase the retention time of the process water allowing a further drop in temperature prior to its reuse.

The floating baffle curtains were manufactured in our facility in Mobile, Alabama in three sections and shipped to the job site.

Prior to the installation of the floating baffle curtain and per our instructions Total Western (the installation contractor) fabricated concrete ballast anchors on site for deployment as additional ballast. They also installed shore anchor posts in the designated areas. The shore anchor posts consisted of 3" diameter by 8 feet long schedule 80 stainless steel pipes. Each post was embedded six feet into the ground, leaving the remaining two feet exposed for connection. The installed mooring post and the concrete ballast were used in this application to assist with keeping the baffle curtain from being displaced by the velocity of the process water.



Upon arrival and after safety orientation, the ETP supervisor and the installation contractor located the baffle curtain that had been previously shipped and moved the needed materials to the pond.



The ETP supervisor directed the installation contractor where to place the packaged baffle curtain sections for deployment. The baffle curtain was unpackaged and spread out for connecting the delivered sections together to form the complete baffle and placed at the waters edge. Once the sections of the baffle curtain were connected, the curtain was ready to be deployed into the pond.



A rope was tied to the beginning section of the floating baffle curtain and placed into the water. As the curtain was placed into the pond and pulled across, it was checked for twists in the material that would prevent proper deployment. The curtain floated across into position and was attached to the shore anchor posts with stainless steel cables.



Once the floating baffle curtain was in place the bottom anchors were attached to hold the curtain in place. The result of this was a complete installation in just a day, along with a happy customer. The pond now had a longer retention time and proper flow of water.

