

PROJECT PORTFOLIO: CANNELTON HYDROELECTRIC 2010

Location: Hawesville, Kentucky, Ohio River

Contractor: Walsh

ConCool Scope: Design, supply and install 180' long, x 48" wide wet belt, temperature control automation and liquid nitrogen system.



When Walsh Construction was awarded the Cannelton Hydroelectric project on the Ohio River, the owner AMP of Columbus, OH required a concrete placement temperature of 55 F (12.8 C). To produce this concrete in a cost effective manner presented significant challenges, as from May to September the high temperatures can exceed 90 F (32 C). To meet this challenge, ConCool designed, supplied and installed a 180' (54.5m) x 48" (1.2m) Niagara® Wet belt for primary cooling, a liquid nitrogen system as a back up to ensure absolute compliance with the temperature requirements, even in exceptional conditions. ConCool also provided and installed a system to provide chilled water to the mixer and a temperature control automation, ensuring that all concrete produced was in specification at the point of placement. Walsh construction was able to meet the contract requirements without the capital costs and maintenance cost associated with a dry flake ice plant.

ConCool, LLC