

Docking State Office Building Cooling Tower -Topeka, Kansas

State of Kansas – Division of Facilities Management



Under our on-call contract, DRG performed a study of the existing cooling towers serving the chilled water system for the Docking State Office Building. In the study it was recommended for longevity that the State consider replacing the existing towers with a new custom concrete cooling tower structure. Being a multi-disciplined engineering firm, DRG was able to perform all of the civil, structural, mechanical and electrical engineering for this project in-house.

Due primarily to the narrow site, a single sided inlet, counter-flow cooling tower design was chosen. In order to maintain the height of the tower as low as practical, a single sump at the north end of the tower was planned. To assure functionality when put into service, DRG coordinated throughout the design with the Owner's building control system and chemical feed system vendors. The structure was designed to be a three-cell tower that would be expandable to five cells in the future. For maximum flexibility, the condenser water piping system was configured to allow any of the five condenser water pumps, or any of the five cooling tower cells, to be operated with any of the building chillers.

DRG was responsible for the following duties under this contract: design services, budgetary and final cost estimating, bidding services, administering contractor pay requests and change orders, and construction observation.

Project Features: Custom concrete design, 5 – 400 ton capacity counter-flow cells, variable speed fans and vertical turbine condenser water pumps



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