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RDK Engineers awarded EMD-Millipore Biomass Central Heating Plant

July 19, 2013 - Construction Design & Engineering

RDK Engineers is providing prime project management and engineering design services for a new Biomass Central Heating Plant (CHP) to be constructed on EMD-Millipore's campus. The new biomass plant represents the single largest infrastructure capital improvement project undertaken at the Jaffrey manufacturing site, targeted at significantly reducing the company's greenhouse gases. The project is being designed and built using an integrated project delivery method. Millipore and RDK are working with Lean Project Consulting, Inc. (LPC) who is providing lean construction training, consulting, and oversight.

Being designed with future expansion in mind, the new CHP will effectively replace 14 existing oil-fired boilers that currently produce heat and steam for the plant and associated processes. The biomass system will incorporate two independent trains from silo to emissions control with 100% redundancy.

Additional scope includes interconnecting to the existing boiler plants and networking them for redundancy; right-sizing the system; confirming net plant output; sizing of dearator consumption and of turbine for cogeneration; complete site design; and overall project management throughout the entire construction project.

In order to optimize the final design, RDK's design team will be investigating prospective biomass equipment vendors and supply firms which will include the study of cutting-edge biomass systems in operation.

The H.L. Turner Group, Inc. is providing architectural, structural, and civil engineering services; Progress Engineering, LLC is providing process automation and control solutions consulting; and power engineers will be providing the air permitting consulting services.

RDK Engineers has specialized in providing high-quality HVAC, electrical, plumbing, tel data, and fireprotection engineering services for over 100 years. Today, RDK has a staff of 200 multi-disciplined engineers and administrative professionals located in Andover, Amherst, and Boston, as well as Durham and Charlotte, NC. RDK delivers total building solutions to leading businesses and institutions nationwide.

Headquartered in Billerica, Mass., EMD Millipore has some 10,000 employees in 67 countries motivated by the potential of science for life through a portfolio of more than 40,000 products. Comprised of three business unitsâ€”bioscience, lab solutions, and processdolutionsâ€”EMD Millipore is a top tier supplier to the life science industry, and serves as a strategic partner for scientists, engineers, and researchers.

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