



QUARTERLY UPDATE

NEW CLIENTS/PROJECTS

Intermountain Power Project, Unit 3

Intermountain Power Agency (IPA) recently awarded Cummins & Barnard a contract to provide development services for the Intermountain Power Project, Unit 3. The project involves the addition of a new 900 MW pulverized coal unit in Delta, Utah. C&B's scope of services includes performing as Owner's Engineer, developing design and scope parameters, defining interfaces with the existing units at the site, developing and executing the plant procurement process, and providing project management and engineering services, as well as additional project support as required.



Constellation Energy, Brandon Shores, Units 1&2

Cummins & Barnard has been named Owner's Engineer to support retrofit of a wet flue gas desulfurization (FGD) system for the two 650 MW Brandon Shores units. Initial scope of services includes permit support including CPCN application; project technology, cost and schedule review; development of technical specification for the FGD systems and stack; development of contracting strategy, term sheet and implementation plan for EPC contractor selection; participation in the EPC contractor negotiation process; and assistance with other Owner procurements.



First Energy, AQCS Projects

Cummins & Barnard is providing Owner's Engineer services for AQCS retrofit projects including engineering reviews and constructibility analysis as well as support during commissioning, startup, performance testing, warranty and close out activities. The assignment includes an SCR installation for two units and a new wet FGD installation for seven coal-fired units.

Northern Michigan University

Earlier, the University selected Cummins & Barnard to conduct studies to analyze existing campus utilities. As a result of those studies, C&B is now providing design services for a 120,000 lb/hr boiler plant utilizing wood and coal for fuel and generating high pressure steam (900 psig, 900° F) for use in a 7 to 10 MW steam turbine for cogeneration. The project is being developed as an expansion to the existing Ripley Heating Plant. Also included in the design are material handling equipment and truck tipping and truck scale facilities.



The project includes equipment procurement packages, layout and design of the new facility, development of construction packages, and support during the bidding and construction phases, as well as air permitting initiated by C&B with the selected environmental consultant.

PROFESSIONAL ACTIVITIES

Technical Papers/Publications

Three C&B engineers presented papers on May 3 at the 2006 Electric Power Conference. They include:

Jeff Cummings, P.E.

"Balance of Plant Considerations for TOXECON Mercury and Multipollutant Control Projects"

Steve Herrygers and Chris Rogers, P.E.

"Implosion Considerations for AQCS Retrofit Projects Implosion Study for We Energies' Presque Isle Power Plant, Unit 5"



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New Staff/Promotions

Jolene A. Manuel joined Cummins & Barnard in April as the new Human Resources Manager. Jolene was previously employed by Lear Corporation where she served as a Human Resources Specialist. She holds a B.S. in Social Services and Social Psychology from Urbana University and is pursuing her Human Resources certification through American Society of Employers.



Samuel R. Barnes, P.E. joined C&B in 2000 and has recently been promoted to Director of Engineering. Sam is a graduate of The University of Michigan School of Engineering and served six years in the U.S. Army Reserves. He has over fifteen years of experience in mechanical engineering with an emphasis on air pollution control systems and high energy piping systems as well as balance of plant systems for both fossil and nuclear-fueled power plants. His employment history includes Commonwealth Edison's Braidwood Nuclear Station and Black & Veatch.



Professional Achievements

ASHRAE presented Wei Sun, P.E. with two national awards this year - Dan Mills' Award and Government Activities Award. The awards were presented by the ASHRAE President during the annual conference at the end of June in Quebec City. Wei's photo along with descriptions of the awards appeared in the June issue of the ASHRAE national newspaper "Insights."



The Dan Mills' Award honors the "best" CTTC (Chapter Technology Transfer Committee) chair selected from 186 committee chairs internationally inside the society based on activities of technical articles, seminars and speeches, as a part of ASHRAE's technology transfer effort to practicing engineers and the general public.

The Government Activities Award honors a technical team leader who effectively promotes ASHRAE technology to governmental institutions for inclusion into their guidelines, standards and codes. Wei Sun, P.E. has been appointed as a principal author for one chapter of the ASHRAE Handbook, and one guide for Labs 21, which is a joint institution by DOE and EPA to promote energy efficiency of US laboratory facilities. Information from his previous articles has been adopted in DOE and Lawrence Berkeley Laboratory's design guides. His teammates also have conducted many training seminars in Michigan and nationwide.

CORPORATE EVENTS

C&B Golf League

The 2006 C&B Golf League tees off every Monday from May to August. The league is comprised of golfers of varying abilities and is meant to provide a fun atmosphere to enjoy the nice weather and get to know co-workers.

C&B Annual Pig Roast

On Friday, June 30, 2006, C&B employees and their families enjoyed the third annual pig roast in the parking lot outside the corporate headquarters in Ann Arbor. It was a beautiful day with a great turnout for the festivities. Activities were planned for the children and featured the 'bounce house', cookie-walk, hula-hoping and water balloon toss.





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Have you ever wondered . . .

What resources are required to build a 600-800 MW coal-fired power plant?

There are many factors to consider when undertaking the enormous project of designing and constructing a power plant. Consulting firms like Cummins & Barnard, Inc. (C&B) are accustomed to tackling these challenges and apply knowledge from previous projects to estimate schedule, budget, equipment requirements, materials, man-hours, etc.

A 600-800 MW coal-fired power plant can produce enough electricity to supply over 600,000 homes. A plant of this size would require a peak of over 2,000 workers per day onsite during the construction phase alone.

It is also not hard to imagine that it takes a lot of material to construct a power plant. The amount of wire alone would span the California coastline, enough concrete to fill 25 Olympic size swimming pools, the weight of 2,000 African elephants in steel, pipe that could stretch from Baltimore, Maryland to Philadelphia, Pennsylvania.

We think that it is interesting to know what happens behind the scenes that allows you to “flip the switch” and have the lights come on. It is an impressive process that requires a considerable amount of expertise, experience and technical know-how as well as years of project experience that lay the foundation for success.

Firms like C&B are brought onboard to provide engineering design or serve as Owner’s Engineer (OE). A primary project goal is to minimize costs by optimizing plant design, properly specifying equipment, negotiating contracts, procuring equipment, establishing and strictly adhering to milestone schedules and providing construction administration that supports timely and economic project completion.

