

ATTACHMENT F

DESIGNER SELECTION- POWER GENERATION AND CHILLER PLANT CAPACITY ADDITION FEASIBILITY STUDY

This feasibility study will develop the project scope, schedule and cost for a new steam turbine driven chiller plant with a nominal 10,000 ton capacity and new electrical generation of undetermined capacity at the site of the Manning Steam Plant.

The budget for the study is \$500k and will be funded by Energy Services receipts.

This project was advertised on May 20, 2013. Nine (9) proposals were received. Five (5) firms were interviewed on July 16, 2013. Members of the Board of Trustees did not participate in the interviews.

The committee recommended the selection of three firms in the following priority order:

1. Sebesta Blomberg & Associates Durham, NC
2. Affiliated Engineers, Inc. Durham, NC
3. Sega, Inc. Overland Park, KS

The firms were selected for the past performance on similar projects, team structure and in depth knowledge of campus energy.

RECOMMENDED ACTION

A motion to approve the three firms in the above priority order.



RECEIVED
UNIVERSITY OF NORTH CAROLINA
FACILITIES PLANNING

June 25, 2013

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Julie Thurston, PE, LEED AP
Facilities Engineer
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Re: Power Generation and Chiller Plant Capacity Additions Feasibility Study

ENGINEERING

COMMISSIONING

CLIENT UTILITY SOLUTIONS

ECO-MANAGEMENT

ENERGY PERFORMANCE

OWNER'S REPRESENTATION

Dear Ms. Thurston:

Sebesta Blomberg & Associates, Inc. (Sebesta Blomberg) is pleased to present our qualifications for the Power Generation and Chiller Plant Capacity Additions Feasibility Study. The goal of this project is to develop scope, schedule, and costs and evaluate alternatives for a new steam turbine-driven chiller plant and new electrical generation.

Our Attributes: Our expertise in planning, financial analysis, design, construction, and commissioning of these types of critical systems provides us with the knowledge to take a complete view of the drivers behind the project and the existing conditions. We then couple these with the best practices and lessons learned from previous experience to effectively evaluate the options and accurately develop the scope, schedule, and budget for projects. Sebesta Blomberg will bring to your project:

- Feasibility study knowledge and leadership
- A team dedicated to your success, providing personal attention and national expertise in the specific systems under analysis
- Unbiased approach and a new fresh look at your utilities and how this project supports your mission
- Demonstrated steam turbine-driven chiller and electrical generation experience

Our Approach: We build on previous projects, specifically the various feasibility studies and system designs, and work closely with your staff to clearly establish key factors involved in the lifecycle cost analysis to address any project risks and challenges. We will address financial, technical, operational, and capacity issues, in addition to environmental, sustainable, and political concerns.



Our data will be presented in understandable formats, allowing stakeholders to make better decisions concerning the chiller plant and electrical generation aspects of this project.

Our Team: Sebesta Blomberg will lead the overall project and provide mechanical, electrical, scheduling, and technical/financial analysis services. Our team also includes BBH Design for the architectural development of any proposed new structures, additions, or renovations, which are sympathetic to the existing campus context. Mulkey Engineers & Consultants will provide all structural and civil design engineering services for the project. Construction Cost Systems, Inc. will support the team with conceptual cost estimating.

Sebesta Blomberg has successfully completed innovative campus utility projects for clients across the country. We have provided planning, assessment, modeling, pre-design, design, construction documents, startup, commissioning, and retro-commissioning/optimization of utility plants at more than 50 campuses nationwide. Mulkey has been engaged in central plant design and utility projects from a structural and civil engineering perspective and is currently working on the UNC-CH campus. BBH Design also has recent campus central plant experience in addition to several higher education projects and clients. Construction Cost Systems have worked on hundreds of estimates from conceptual design to construction phase, many in the higher education market and several for central plants.

Thank you for the opportunity to assist the University with its facility goals. Please contact me at 404.788.4431, our Durham office at 919.806.4424, or via e-mail at jhappe@sebesta.com with any questions you may have. We look forward to the next step in the selection process and appreciate your consideration.

Sincerely,

Sebesta Blomberg & Associates, Inc.

A handwritten signature in black ink, appearing to read 'J. Happe'.

Jason Happe
Principal-in-Charge

