

All Agency Project Request

2013 - 2015 Biennium

<u>Agency</u>	<u>Institution</u>	<u>Building No.</u>	<u>Building Name</u>
University of Wisconsin	La Crosse	285-0E-9950	Multi-Building

<u>Project No.</u>	15I2E	<u>Project Title</u>	Campus Steam Meter Installation
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Project Intent

This project provides investigation and research, pre-design, and design services to install new digital steam meters in nine (9) academic buildings and nine (9) student residence halls.

Project Description

Project work includes installing new steam supply meters in eighteen (18) buildings (Angel Hall, Archaeology Building, Center for the Arts, Coate Hall, Cowley Hall, Drake Hall, Graff Main Hall, Hutchison Hall, Laux Hall, Mitchell Hall, Morris Hall, Murphy Library, Reuter Hall, Sanford Hall, Wentz Hall, Wimberly Hall, Wing Technology Center, and White Hall) that communicate with the campus automation system.

Project Justification

All central steam production and fuel usage is tracked in order to charge Program Revenue facilities for their usage. A manual calculation is done based on condensate meter readings. These meters are manually read each month by Physical Plant staff. This method is flawed since it cannot account for leaking traps, loss of condensate from food production, and inefficient equipment. To ensure Program Revenue buildings are paying their fair share of utility costs, digital electrical meters will be installed on all buildings during fiscal year 2016 (Project 13A2S) and chilled water meters are currently being calibrated and connected to the building automation system under a separate maintenance contract. Installing new digital steam supply meters will provide the campus with accurate utility metering for all major central utilities.

The Physical Plant currently spends 200 hours annually reading antiquated analog meters and conducting manual calculations of usage. This labor expense will be eliminated when the campus automation system produces reports with accurate utility usage that can be used by the Business Office for billing purposes. By eliminating the time to manually read meters, staff can focus on the backlog of maintenance work orders and preventive maintenance tasks. This project will also provide an accurate diagnostic tool as condensate and steam meter readings can be compared for anomalies.

A/E Consultant Requirements

A/E Selection Required?

Consultants should have specific expertise and experience in the design and coordination of building automation systems and controls as part of a design team. Work includes site surveys, acquiring field data, and verifying as-built conditions to assure accurate development of design and bidding documents, and production of necessary design and bidding documents. Consultants should indicate specific projects from past experience (including size, cost, and completion date) in their letter of interest and when known, include proposed consulting partners and specialty consultants.

The consultant will verify project scope, schedule, and budget estimates, and recommend modifications as required to complete the specified project intent. The consultant will prepare a pre-design document to establish an appropriate project scope, budget, and schedule prior to the university seeking authority to construct from the Board of Regents and State Building Commission.

Commissioning

- Level 1
- Level 2

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<u>Project Budget</u>	<u>Funding Source(s)</u>	<u>Total</u>
Construction Cost: \$	GFSB - []	\$0
Haz Mats: \$	PRSB - []	\$0
Construction Total: \$	Agency/Institution Cash [AGF0]	\$31,500
Contingency: 15% \$	Gifts	\$0
A/E Design Fees: 8% \$	Grants	\$0
DFD Mgmt Fees: 4% \$	Building Trust Funds [BTF]	\$0
Other: \$	Other Funding Source	\$0
\$502,000		\$31,500

Project Schedule

SBC Approval: 04/2016
 A/E Selection: 12/2015
 Bid Opening: 01/2017
 Construction Start: 03/2017
 Substantial Completion: 08/2017
 Project Close Out: 12/2017

Project Contact

Contact Name: Douglas Pearson
 Email: <dpearson@uwlax.edu>
 Telephone: (608) 785-8019 x

Project Scope Consideration Checklist

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1. Will the building or area impacted by the project be occupied during construction? If yes, explain how the occupants will be accommodated during construction.
All project work will be coordinated through campus physical plant staff to minimize disruptions to daily operations and activities.
2. Is the project an extension of another authorized project? If so, provide the project #...
3. Are hazardous materials involved? If yes, what materials are involved and how will they be handled?
Hazardous materials abatement is not anticipated on this project.
4. Will the project impact the utility systems in the building and cause disruptions? If yes, to what extent?
All project work will be coordinated through campus physical plant staff to minimize disruptions to daily operations and activities.
5. Will the project impact the heating plant, primary electrical system, or utility capacities supplying the building? If yes, to what extent?
6. Are other projects or work occurring within this project's work area? If yes, provide the project # and/or description of the other work in the project scope.
7. Have you identified the WEPA designation of the project...Type I, Type II, or Type III?
Type III.

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8. Is the facility listed on a historic register (federal or state), or is the facility listed by the Wisconsin Historical Society as a building of potential historic significance? If yes, describe here.
9. Are there any other issues affecting the cost or status of this project?
10. Will the construction work be limited to a particular season or window of opportunity? If yes, explain the limitations and provide proposed solution.
11. Will the project improve, decrease, or increase the function and costs of facilities operational and maintenance budget and the work load? If yes, to what extent?
Completion of this project will decrease operational maintenance costs.
12. Are there known code or health and safety concerns? If yes, identify and indicate if the correction or compliance measure was included in the budget estimate, or indicate plans for correcting the issue(s).
13. Are there potential energy or water usages reduction grants, rebates, or incentives for which the project may qualify (i.e. Focus on Energy <<http://www.focusonenergy.com>> or the local utility provider)? If yes, describe here.
14. If this is an energy project, indicate and describe the simple payback on state funding sources in years and the expected energy reduction here.