

# All Agency Project Request

2009 - 2011 Biennium

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<b><u>Agency</u></b>	<b><u>Institution</u></b>	<b><u>Building No.</u></b>	<b><u>Building Name</u></b>
University of Wisconsin	La Crosse	285-0E-0024	HEATING PLANT

<b><u>Project No.</u></b>	10I2K	<b><u>Project Title</u></b>	Htg Plnt Boiler No. 3 Repl
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## **Project Intent**

This project replaces Boiler No. 3 and its associated stack in the Heating Plant.

## **Project Description**

Project work includes replacing the 25,000 PPH summer boiler with a new higher efficiency 30,000 PPH natural gas boiler. The project includes an economizer and boiler stack, electrical wiring and new controls, new valves, and trim for the new boiler. Sizing of the boiler has been reviewed against current demand in order to optimize the annual operating hours while still meeting the minimum load requirements of the campus.

## **Project Justification**

The 25,000 PPH natural gas boiler is 47 years old. Repairs have become increasingly more difficult to make due to its age and replacement parts are harder to locate, which has rendered the boiler non-operational. A new boiler will have higher efficiency than the current unit, resulting in significant energy savings. This unit is used primarily during the summer months, but will be increasingly used during the winter months as well to reduce the load on the two 60,000 PPH coal boilers.

## **A/E Consultant Requirements**

A/E Selection Required?

Consultants should have specific expertise and experience in the design and coordination of the installation of gas boiler systems in commercial and institutional buildings. 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.

## **Commissioning**

- Level 1
- Level 2

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## Project Budget

Construction Cost:		\$1,788,600	
Haz Mats:		\$10,000	
Construction Total:		\$1,798,600	
Contingency:	15%	\$269,800	
A/E Design Fees:	8%	\$143,900	
DFD Mgmt Fees:	4%	\$82,700	
Equipment/Other:		\$0	
		\$2,295,000	

## Funding Source

GFSB - Utilities Repair & Renovation [Z080]	\$1,354,000
PRSB - Utilities Repair & Renovation [T570]	\$941,000
Agency/Institution Cash []	\$0
Gifts	\$0
Grants	\$0
Building Trust Funds [BTF]	\$0
Other Funding Source	\$0
	\$2,295,000

## Project Schedule

SBC Approval: 10/2010  
 A/E Selection: 11/2010  
 Bid Opening: 05/2011  
 Construction Start: 07/2011  
 Substantial Completion: 04/2012  
 Project Close Out: 08/2012

## Project Contact

Contact Name: Matthew N. Lewis, P.E.  
 Email: <lewis.matt@uwlax.edu>  
 Telephone No.: (608) 785-8019 x

## Project Scope Consideration Checklist

- |   | <u>Y</u>                            | <u>N</u>                            |
|---|-------------------------------------|-------------------------------------|
| 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.   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| 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 #...   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 3. Are hazardous materials involved? If yes, what materials are involved and how will they be handled?  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| Required hazardous materials abatement (boiler casings and breeching) has been included in the estimated project schedule and project budget. Comprehensive building survey inventory data is available on Wisconsin's Asbestos & Lead Management System (WALMS) < <a href="http://walms.doa.state.wi.us/">http://walms.doa.state.wi.us/</a> >. |                                     |                                     |
| 4. Will the project impact the utility systems in the building and cause disruptions? If yes, to what extent?   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 5. Will the project impact on the utility capacities supplying the building? If yes, to what extent?  | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 6. Will the project impact the heating plant or the primary electrical system supplying the campus or institution? If yes, to what extent?  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| The gas boiler will need to be replaced once the coal boilers are brought on line for the heating season.   |                                     |                                     |
| 7. Have you identified the WEPA designation of the project...Type I, Type II, or Type III?<br>Type III.   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |

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8. Is the project affected by historic status?
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.

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