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MTSU Clean Energy Initiative Project Funding Request

There are five (5) sections of the request to complete before submitting.

1. General Information	
Name of Person Submitting Request Jeff McConnell	
Department/Office Facilities Services	Phone # (Office) 898.5883
MTSU Box # 0032	Phone # (Cell)
E-mail	Submittal Date 10/2/2018

2. Project Categories (Select One)			
Select the category that best describes the project.			
<input checked="" type="checkbox"/>	Energy Conservation/Efficiency	<input type="checkbox"/>	Sustainable Design
<input type="checkbox"/>	Alternative Fuels	<input type="checkbox"/>	Other
<input type="checkbox"/>	Renewable Energy		

3. Project Information	
a. Please provide a brief descriptive title for the project.	
b. The project cost estimate is the expected cost of the project to be considered by the committee for approval, which may differ from the total project cost in the case of matching funding opportunities. Any funding request is a 'not-to-exceed' amount. Any proposed expenditure above the requested amount will require a resubmission.	
c. List the source of project cost estimates.	
3a. Project Title: Flowmeter BTU meter for Murphy Center	
3b. Project Cost Estimate \$7250	
3c. Source of Estimate	
Quote from Supplier, In house labor estimate	

4. Project Description

(Completed in as much detail as possible.)

- a. The scope of the work to be accomplished is a detailed description of project activities.
- b. The benefit statement describes the advantages of the project as relates to the selected project category.
- c. The location of the project includes the name of the building, department, and/or specific location of where the project will be conducted on campus.
- d. List any departments you anticipate to be involved. Were any departments consulted in preparation of this request? Who? A listing may be attached to this form when submitted.
- e. Provide information for anticipated future operating and/or maintenance requirements occurring as a result of the proposed project.
- f. Provide any additional comments or information that may be pertinent to approval of the project funding request.

4a. Scope: Work to be accomplished

Flowmeter and BTUmeter for Murphy Center

Installation of a Flowmeter and BTU meter in chilled water line for Murphy Center.

4b. Scope: Benefit Statement

Murphy Center is the first node in the "E" Loop of the campus chilled water system. Addition of these meters will allow facilities to begin a process of optimizing the performance of the plant and control each Chiller for better efficiency. As utility costs continue to increase year after year the need to attempt to control delta T in order to seek and use available plant cooling capacity is becoming more important. This step will be the first in an 8 step process that will then give the plant total ability to deliver chilled water to critical building on opposite sides of the campus from the chiller plant.

4. Project Description (continued)
<p data-bbox="250 233 862 268">4c. Location of Project (Building, etc.)</p> <p data-bbox="250 306 451 342">Murphy Center</p>
<p data-bbox="250 495 672 531">4d. Participants and Roles</p> <p data-bbox="250 569 505 604">Facilities Engineer:</p> <p data-bbox="250 642 878 678">Facilities Technician: Labor to install instrument</p> <p data-bbox="250 716 1036 751">Supplier: Purchase flowmeter and BTU meter for installation</p>
<p data-bbox="250 974 1154 1010">4e. Future Operating and/or Maintenance Requirements</p> <p data-bbox="250 1050 1317 1085">Facilities Technician: Mechanical adjustments to systems to optimize performance.</p>
<p data-bbox="250 1352 1328 1430">4f. Additional Comments or Information Pertinent to the Proposed Project</p> <p data-bbox="293 1467 342 1503">n/a</p>

5. Project Performance Information

Provide information if applicable.

- a. Provide information on estimated annual energy savings stated in units such as kW, kWh, Btu, gallons, etc.
- b. Provide information on estimated annual energy cost savings in monetary terms.
- c. Provide information on any annual operating or other cost savings in monetary terms. Be specific.
- d. Provide information about any matching or supplementary funding opportunities that are available. Identify all sources and explain.

5a. Estimated Annual Energy Savings (Estimated in kW, kWh, Btu, etc.)

TBD

5b. Annual Energy COST Savings (\$)

TBD

5c. Annual Operating or Other Cost Savings. Specify. (\$)

TBD

5d. Matching or Supplementary Funding (Identify and Explain)

n/a