

Texas Commission on Environmental Quality
New Technology Implementation Grant (NTIG) Program
Operation Phase Annual/Final Status Report

Contract Number:	582-19-90660-0402
Grantee:	University of Texas at Arlington
Report for the Annual Period:	September 2020 - August 2021 Submitted: Aug 31, 2021

Section I. Accomplishments

Provide a bulleted list of operations of the facility during the past year. Include exact numbers and/or estimates.

- The TEP (Thermal Energy Plant) Boilers 1 and 2 have been running in normal operation all year with the exception of the winter storm event in February.
- Boiler 1 has a run time of 2263 hours Boiler 2 has a run time of 1866 hours on natural gas.
- Boiler 1 has a run time of 46 hours Boiler 2 has a run time of 29 hours on diesel fuel (During winter storm event).
- Estimated NOx saving is 60% over retrofitted burner system.

Section II. Key Events and Issues

Report any key events that occurred during this reporting period. Please include any major project updates that impacted operations.

- Staff operators were provided training from the burner controls manufacturer.
- February 2021 winter storm affected normal operations. All boilers were run on diesel fuel for a period of time to reduce natural gas emissions.

Report any anticipated or unanticipated problem(s).

- February 2021 winter storm required to run boilers on diesel fuel. We had problems starting the boilers on diesel fuel with the new burner system.

Proposed Solution(s): Report any possible solution(s) to the anticipated or unanticipated problem(s).

- Specific required training by the manufacturer is required.

Action(s) Conducted and Results: Describe the action(s) taken to resolve the anticipated or unanticipated problem(s). Were the actions successful in resolving the problem?

- The manufacturer was brought to the site to train our personnel on starting the boilers on diesel fuel. The training included a demonstration of switching fuel sources to the boiler.
- The new training was successful, and we have implemented this procedure for all of our boilers in the yearly required training.

Section III. Provide a summary of the overall state of the facility and grant funded equipment.

- The TEP has been running in normal operation and the newly installed burner controls have been operational and in excellent condition.
- Periodic preventative maintenance is performed on the burner control systems and recorded per manufacturers recommendations.

Section IV. Goals and Issues for Upcoming Period

Provide a brief description of the project goal(s) you hope to realize during the next reporting period.

- Continue to run these boilers as recommended so our emission footprint in minimized.
- Continue to look at new technology that will make sense for UTA to reduce emissions further.
- Maintain yearly training and preventative maintenance to ensure proper operation in the future.

Authorized Official/Project Representative's Name and Signature (blue ink): <i>Robb Chock</i>	Date:	August 30, 2021
Robb Chock, P.E.		
Director of Mechanical Operations - UTA		

This form may be submitted via e-mail to your Grant Manager or a paper copy may be sent to the following address:

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