

American Recovery and Reinvestment Act

Connecticut DEP

State Diesel Emission Reduction Act

Description of the Grant and Summary of Activities:

Connecticut DEP was awarded \$1.73 Million in Diesel Emission Reduction Act funds for three projects: 1) a retrofit program to reduce diesel emissions associated with highway construction and maintenance; 2) the establishment of an electrified truck stop to reduce the impact of drayage truck idling in and around the Port of New Haven; and 3) a locomotive engine conversion project to replace a highly polluting locomotive engine on one locomotive used as a switch engine at the Providence and Worcester rail yard in New Haven.

Since receiving this grant in early April 2009, CTDEP staff refined appropriate instruments for delegating responsibilities and establishing financial transfers to satisfy the American Recovery and Reinvestment Act of 2009 (ARRA), EPA and State requirements. CTDEP coordinated with each of the Sub Recipients in project planning efforts to develop detailed scopes of work or memorandums of agreement for tracking responsibilities, project progress, tracking jobs created or retained and procedures for reimbursements. Establishing responsibilities for reporting and other requirements of ARRA and the DERA grant was part of this coordination. CTDEP committed 0.139 full-time equivalent (FTE) staff positions for administrative tasks associated with establishing the framework for implementing the programs covered by the grant. In addition, progress was made on each of the projects as follows:

- **CT Department of Transportation (ConnDOT) Retrofits:** ConnDOT is the Sub Recipient for this project and will retrofit both ConnDOT snow-plow dump trucks and non-road construction vehicles working on ConnDOT projects. During this quarter, the Vendor for retrofitting ConnDOT's snow-plow dump trucks was secured and the process for retrofitting these vehicles was developed. This included an examination of these vehicles, selection of the appropriate DOC technology, procuring this equipment and testing the process on one ConnDOT snow-plow dump truck. The process and DOC technology was successful. In addition, ConnDOT has developed a process and logistics for incorporating language into construction contracts that will result in the retrofit of non-road construction equipment with appropriate DOC technology. Upcoming projects in Fairfield and New Haven Counties are being evaluated as potential candidates for installing DOCs on construction equipment. Second quarter activities under this grant resulted in 2 positions being retained by the Vendor that will be installing these DOC systems on ConnDOT trucks.

- Providence & Worcester Rail Road (PWRR) Locomotive Repower:** A contract was executed between CTDEP and PWRR and project planning progressed. PWRR is the Sub Recipient for this project. PWRR is currently working to procure a Vendor to conduct necessary engine replacement.
- New Haven Truck Stop Electrification (TSE):** The City of New Haven is the Sub Recipient for this project. The City continued project planning on this project, which consists of the installation of fourteen TSE units in a parking lot within the Port District to accommodate trucks that are awaiting entry into port terminals as part of the ongoing New Haven Port Diesel Reduction Program. These TSE units allow truck drivers to have heat, air conditioning and electricity for in-cab appliances without idling their truck engines. This air pollution control project will reduce diesel emissions and the resulting health impacts. The TSE units will be installed in an environmental justice neighborhood where truck engines currently idle while the drivers await their turns for delivery and pickup at the port. Idle reduction results in decreases in multi-pollutant emissions, therefore improving air quality. The resulting improvement in health will provide long term economic benefits from reductions in health care costs. EPA regards the installation of TSE units as an infrastructure project, subject to special requirements under ARRA and the grant agreement. One such requirement is the posting of an ARRA Section 1511 Infrastructure Certification for this project; this was signed and posted on CTDEP's Recovery Act website at: http://www.ct.gov/dep/lib/dep/stimulus/dera_tse_1511cert.pdf.

Reports Required Through 3rd Quarter:

Report	Submitted to	Due Date	Status	Quality Assurance
State Monthly Report	CT OPM	7/8/09	Submitted	Review Complete
First Quarterly Report	Region 1 EPA	7/10/09	Submitted	Review Complete
State Monthly Report	CT OPM	8/5/09	Submitted	Review Complete
State Monthly Report	CT OPM	9/4/09	Submitted	Review Complete
Second Quarterly Report	US OMB	10/10/09	Submitted	Review Complete
State Monthly Report	CT OPM	10/15/09	Submitted	Review Complete
2 nd Quarter Programmatic Report	Region 1 EPA	10/30/09	To Be Submitted	Review Complete
State Monthly Report	CT OPM	11/4/09	Pending	Pending
State Monthly Report	CT OPM	12/4/09	Pending	Pending
State Monthly Report	CT OPM	1/4/10	Pending	Pending
Third Quarterly Report	US OMB	1/10/10	Outlined	Pending
3 rd Quarter Programmatic Report	Region 1 EPA	1/30/10	Outlined	Pending

Data Reported:

October 2009

The activities in this quarter resulted in the installation of an emission control device on one ConnDOT snowplow truck. The Vendor reported that two FTE positions were retained for that purpose.

CTDEP has entered into a Memorandum of Agreement with ConnDOT that commits \$510,000 to ConnDOT - \$180,000 has been transferred to ConnDOT. Of this initial transfer, approximately \$166,000 has been committed to conduct retrofits. A second transfer in the amount of \$216,000 will occur soon.

PWRR and CTDEP have entered into a contract that commits \$750,000 to the PWRR engine replacement project. PWRR will provide up to \$480,000 of their funds to complete this project that is estimated at \$1,100,000.

CTDEP has executed a purchase order with the City of New Haven, which commits \$ 380,256 to this project.

In total, \$1,310,256 has been committed for work under this grant as of September 30, 2009.

Addressing Challenges:

The mechanisms for delegating responsibilities and establishing financial transfers continued to be challenges during the second quarter, but these have now been satisfactorily resolved and CTDEP remains on target to meet the milestones in the work plan proposed submitted to EPA. Proposals for resolving the issues were developed, reviewed and finalized by the appropriate agencies. CTDEP succeeded in refining appropriate instruments by which these resolutions could satisfy ARRA, EPA and State requirements. In cases where the resolution of these issues requires revision of the work plan; CTDEP is coordinating with EPA to incorporate the necessary changes.

Forecast of Third Quarter Activities:

ConnDOT Retrofit Project: In the third quarter, ConnDOT plans to advertise highway construction contracts on which equipment retrofits can be specified. ConnDOT also plans to continue retrofitting trucks from its own fleet.

New Haven TSE Project: New Haven plans to select vendors and enter into contracts for the purchase and installation of the TSE units. Posting the required ARRA sign, the formal ground-breaking and site preparation are also anticipated in the third quarter.

PWRR Locomotive Conversion Project: PWRR's next steps include procuring a project management firm and a vendor to implement the engine conversion.