

ENERGY CONSERVATION PLAN

Quarterly Report September 2005 - November 2005

March 2, 2006

A. RESOURCE EFFICIENCY PLAN

Quarterly Report September 2005 - November 2005

1. SUMMARY

The Texas Department of Transportation (TxDOT) Resource Efficiency Plan has been prepared in accordance with the State Agency Energy Savings Program Provisions identified in Executive Order RP-49.

To energy conservation, TxDOT commits to:

- an agency-determined percentage savings goal for energy expenditures
- energy conservation design guides
- energy awareness plan
- project implementation update

This first quarterly FY06 report required by Executive Order RP49 provides data and status on the above identified plan commitments.

The data presented herein defines a quantitative baseline against which future quarterly and annual reports can be compared.

Energy conservation trends will be identified in future quarterly reports.

FIRST FY06 QUARTERLY REPORT ON PLAN COMMITMENTS:

2. PERCENTAGE SAVINGS GOAL FOR ENERGY CONSERVATION

Table 1 depicts first quarter FY06 electrical expenditures.

Table 2 depicts first quarter FY06 gas expenditures.

Future updates will use the tables as baseline information.

3. ENERGY CONSERVATION DESIGN GUIDES

TxDOT is committed to considering energy conservation and consumption in the development and design of each facility renovation and construction project. The State Energy Code (ASHRAE 90.1-2004) is the basis for all designs.

4. ENERGY AWARENESS PLAN

TxDOT is currently updating its Energy Management Manual to incorporate the latest energy conservation and management practices.

5. PROJECT IMPLEMENTATION UPDATE

During the first quarter of FY06, TxDOT began design of 20 new re-roofing projects. These will provide additional insulation levels and increase the effectiveness of the building envelope and decrease energy consumption for building environmental control.

Also, design was begun on updates on HVAC and electrical upgrade projects at three sites. These projects will increase system efficiency through upgrading of older HVAC equipment and controls and through replacement of inefficient light fixtures with new efficient fixtures.

Table 1

FY06 Electricity Expenditures

 September
 \$ 360,828

 October
 \$ 2,320,232

 November
 \$ 4,737,283

Table 2

FY06 Natural Gas Expenditures

FY06

September \$ 33,718 October \$ 62,254 November \$ 158,565

B. FLEET FUEL MANAGEMENT PLAN

Quarterly Report September 2005- November 2005

B. Fleet Fuel Management Plan Quarterly Report September 2005 – November 2005

1. SUMMARY

The Texas Department of Transportation (TxDOT) Fleet Fuel Management Plan has been prepared in accordance with the State Agency Energy Savings Program Provisions identified in Executive Order RP-49.

To minimize fuel use in all vehicles and equipment, TxDOT commits to:

- an agency-determined percentage savings goal for fuel expenditures
- employ a preventive maintenance program
- educate employees on fuel-efficient operating practices
- utilize the State's Fleet Data Management System
- document agency best practices

This first quarterly Fiscal Year 2006 (FY06) report required by Executive Order RP49 provides data and status on the above identified plan commitments.

The data presented herein defines a quantitative baseline against which future annual reports (Table 1) and quarterly reports (Table 2) can be compared.

Fuel consumption and fuel economy trends will be identified in future quarterly reports.

FIRST FY06 QUARTERLY REPORT ON FLEET FUEL MANAGEMENT PLAN COMMITMENTS:

2. PERCENTAGE SAVINGS GOAL FOR FUEL EXPENDITURES

Table 1 depicts first quarter FY06 mileage and fuel usage data as well as fuel economy figures for the department's light-duty, on-road vehicles. Also included are fuel usage data for the department's off-road construction and maintenance equipment along with the Galveston and Port Aransas ferry operations.

3. TxDOT PREVENTIVE MAINTENANCE PROGRAM

TxDOT is responsible for properly obtaining, managing, using, and maintaining equipment to ensure appropriate use of tax dollars. TxDOT established the equipment preventive maintenance (PM) program to comply with these responsibilities. All districts, divisions, and offices (D/D/O) that have or use equipment must follow the PM program.

B. Fleet Fuel Management Plan Quarterly Report September 2005 – November 2005

The current objectives of the PM program are the efficient and effective use of equipment, manpower, tools, and facilities to achieve maximum serviceability and safety of the equipment fleet at the lowest overall cost to the department.

TxDOT is currently adding an objective for conserving energy by maintaining vehicles in top operating condition to optimize fuel consumption.

4. EDUCATE EMPLOYEES ON FUEL-EFFICIENT OPERATING PRACTICES

PM not only increases the life of a vehicle, but also impacts fuel economy. TxDOT Fleet Management is developing a comprehensive education program for TxDOT employees in coordination with our Human Resources Division ensuring the above Best Operating Practices are implemented.

5. TXDOT PM TRACKING AND FORECASTING PROGRAM

The ability to track and manage PM allows TxDOT to leverage its resources wisely. As TxDOT seeks to extend vehicle and equipment life, it is more critical that PM activities be conducted prudently.

TxDOT is developing a centralized PM tracking program called *FleetTrackS* which will result in qualitative and quantitative benefits.

FleetTrackS will allow for PM activities to be forecast, planned and recorded. There will be qualitative benefits such as improved safety and improved equipment availability, which translate into extended service life.

6. STATE FLEET DATA MANAGEMENT SYSTEM

State agencies and institutions of higher education are required to report vehicle data on a monthly basis using the State's Fleet Data Management System called *FleetFocus*.

TxDOT continues to utilize *FleetFocus* to produce and review vehicle reports, data summaries, and a minimum criteria calculation for its on-road vehicle fleet and to monitor its fleet cap.

B. Fleet Fuel Management Plan Quarterly Report September 2005 – November 2005

7. TXDOT FLEET POLICIES AND BEST PRACTICES

The Texas Building and Procurement Commission's (TBPC) State Vehicle Fleet Management Plan established procedures to increase vehicle use, improve efficiency of the state fleet and reduce the cost of maintaining state vehicles.

TxDOT addressed the Plan's requirements and recommendations by outlining and describing policies and procedures already in place and developing guidelines within the Plan by creating The TxDOT Vehicle Fleet Management Plan.

The TxDOT Vehicle Fleet Management Plan describes the policies, procedures, guidelines, and best practices incorporated by the department for the management of its fleet. This document is a reflection of both those policies and procedures employed by TxDOT and the guidelines developed to meet the State Vehicle Fleet Management Plan's specifications.

TxDOT is currently working closely with TBPC in updating and refining the State Vehicle Fleet Management Plan.

8. TxDOT EQUIPMENT MANUAL

The TxDOT Equipment Manual provides policies and rules that TxDOT employees are required to follow in the management, use, repair, and disposal of motorized and non-motorized major equipment.

The manual provides TxDOT managers and equipment users or maintainers with the basic policies and procedures to manage the TxDOT equipment fleet.

The manual also provides updated information on laws, rules, policy, and procedures that govern the use, control, and management of the TxDOT equipment fleet.

TxDOT is currently performing an annual update to the Equipment Manual and will incorporate appropriate issues relating to energy conservation.