SPR RESEARCH PROJECT DESCRIPTION

PROJECT NUMBER:
04401

PROJECT TITLE:
Vehicle Fleet Database and Asset Management Project

PRINCIPAL INVESTIGATOR:
Dr. Michael Anderson
Assistant Professor of Civil Engineering
The University of Alabama in Huntsville
Huntsville, AL 35899
(256) 824-5028, (256) 824-6724
mikea@cee.uah.edu

OBJECTIVE:
This project will update the Alabama Department of Transportation (ALDOT) public transportation vehicle database system, to provide better statistics and more accurate data for inventory records.

ABSTRACT:
The last update to the public transportation vehicle databases was in 1999. This project will review the existing vehicle inventory record and database system maintained by ALDOT. Then, it will examine the potential to implement asset management within the current statewide vehicle fleet and will install GIS and Internet based resources to improve vehicle management.

TASK DESCRIPTIONS
Task 1 – Review ALDOT vehicle databases.
Task 2 – Review statewide fleet.
Task 3 – Evaluate the current record keeping system.
Task 4 – Review nationwide asset management strategies.
Task 5 – Locate statewide resources in a GIS environment
Task 6 – Develop additional GIS and Internet based tools for vehicle management.

MILESTONES AND COMPLETION DATES
The beginning date for Task 1 is October 1, 2003. The conclusion to Task 6 will be May 15, 2005. The project is scheduled to last 19 and one half months.

TOTAL BUDGET
This is a 19.5 month project; Alabama Department of Transportation State Planning and Research (SPR) funds $50,000.

STUDENT INVOLVEMENT:
The only student involvement will be Dr. Michael Anderson’s graduate research assistant.
RELATIONSHIP TO OTHER PROJECTS:
This project is a companion to the UTCA project 04403 which will confirm that all agencies within the state of Alabama meet specific maintenance and operator regulations. It will be conducted by Dr. Anderson and funded by the Alabama Department of Transportation.

TECHNOLOGY TRANSFER ACTIVITIES:
None

POTENTIAL BENEFITS OF THE PROJECT:
Technology is constantly improving and this update is needed. After the project, ALDOT databases will be up to par and will provide researchers with better inventory records.

TRB KEYWORDS:
Public transportation fleet management, public fleet databases, GIS applications to public transportation