

St. Louis - Midwest Fine Particulate Matter Supersite

ASSISTANCE AGREEMENT QUARTERLY REPORT SUMMARY

for the reporting period October 13, 2001 through January 12, 2002

March 11, 2002

St. Louis - Midwest Particulate Matter (PM) Supersite Monitoring Program

EPA Assistance ID No. R-82805901-0

Investigators and Institutions:

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Lead Institution: Washington University in St. Louis
Research Category: Particulate Matter Supersites Program
Project Period: January 13, 2000- January 12, 2004

Objective of Research:

This project will provide an atmospheric measurement study which is designed to address and integrate objectives of the atmospheric, health and exposure research communities.

Progress Summary/Accomplishments:

Eighth quarter activities focused on routine data collection, hardware improvements for winter season measurements, and data validation and analysis. A Quality Assurance Audit was conducted by staff from Desert Research Institute in December 2001. The movable platform was initially located at the rural site (Park Hills, MO) and was returned to the core site (East St. Louis, IL) in late November for collocated measurements prior to its next deployment.

The 2nd Data Analysis Meeting of the St. Louis - Midwest Supersite was January 8-9, 2002, in St. Louis with participation by twenty-two team members and other collaborators. This meeting featured three topics: continued development of a description for fine particulate matter climatology in St. Louis; a summary of ultrafine aerosol events observed from the NanoDMA measurements; and a videoconference with exposure and

¹ Current affiliation: American Chemistry Council, Washington, D.C. (Dr. Alan Hansen is currently serving as the official EPRI liaison to the St. Louis Supersite)

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health scientists at the Harvard School of Public Health to advance the linkages between Supersite measurements and concomitant exposure and health studies being conducted in St. Louis.

Publications/Presentations:

Project overview briefings were presented at: (1) 15th Annual St. Louis RCGA Energy & Environment Conference, October 17, 2001; and (2) Air Quality Advisory Committee of the East-West Gateway Coordinating Council, December 20, 2001.

Future Activities:

Ninth quarter activities will focus on sustained measurements at the East St. Louis (IL) core site and the North St. Louis City (MO) satellite site. An R&P 8400N nitrate unit will be deployed on the movable platform. Two TSI Electrical Aerosol Detectors (EAD) units will be deployed at the core site.

Supplemental Keywords:

particulate matter, PM-2.5, monitoring, air quality

Relevant Web Sites: St. Louis - Midwest Supersite: <http://capita.wustl.edu/StLSuperSite>