

Public Page
Improvements to the External Corrosion Direct Assessment
Methodology by Incorporating Soils Data
Agreement DTRS56-03-T-0003; 4th Quarterly Status Report
January 1, 2004, to March 31, 2004
Contractor: Battelle

The subject contract covers two projects: (1) adding soils data to the previously developed external corrosion direct assessment (ECDA) datasets and methodology and (2) developing a quantitative basis for evaluating certain time-dependent threats. Status of the first project is reported here.

Project 1: ECDA Soils Model

The objective of this project is to add soils data and a soils model to the previously collected external corrosion direct assessment (ECDA) datasets and methodology. This project includes (1) working with pipeline operators as they conduct ECDA's, (2) collecting soils-related data, and (3) modifying an existing soils model for ECDA.

The project includes the following tasks:

- Task 1 – Data review – *previously completed*.
- Task 2 – Contacting pipeline companies – *previously completed*.
- Task 3 – Data collection.
- Task 4 – Data alignment.
- Task 5 – Development of a soils model and associated confidence measures.
- Task 6 – Progress reporting.
- Task 7 – Final reporting.

Data collection and alignment (Tasks 3 and 4) began. Ten lines have been identified for soils data collection - data collection has been completed on eight of the following ten lines:

- 30" diameter line with asphaltic and tape coatings, rural area, southern/Midwest soils;
- 24" diameter line with coal tar enamel coating, rural area, Midwest soils;
- 30" diameter line with over-the-ditch coal tar coating, rural area, Midwest/southern soil;
- 12" diameter with coal tar coating, northern soils with rocky outcroppings;
- 30" diameter with coal tar coating, rocky Midwest/northeast soils;
- 30" diameter with coal tar coating, desert area, western soils;
- 16" diameter line with coal tar (?) coating, residential area, southern soils;
- 16" diameter line with coal tar coating, heavily urbanized area, Midwest/northern soils;
- 30" diameter with coal tar coating, coastal area;
- 24" diameter line with fusion bond epoxy; Midwest soils;

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