



SCHIFF ASSOCIATES

Effects of Electrical Grounding on Pipe Integrity and Shock Hazard, Denver, Colorado

Description of Project: Effects of Electrical Grounding on Pipe Integrity and Shock Hazard

Key Project Personnel: Melvin J. Schiff, PE – Principal Engineer
Graham E. C. Bell, PE – Project Engineer

Description of Services:

Schiff Associates was selected as part of a project team by the American Water Works Research Foundation (AWWARF) to study the effects of electrical grounding on pipe integrity and shock hazard. The objectives of the study include evaluating the relationship between electrical currents and the service life of distribution pipe materials, and to provide guidance to investigate the potential for electrical shock hazard to utility personnel. Schiff was the technical subcontractor on the project and was responsible for corrosion engineering and field investigations on stray current effects on water distribution piping. Work included coordination for site testing, excavation, pipe and coating inspections, soil sampling at more than 75 sites with twenty water utilities geographically dispersed throughout the United States.

This report, titled "Effects of Electrical Grounding on Pipe Integrity and Shock Hazard" is available from AWWARF in Denver as ISBN 0-89867-861-7.

Schiff Associates Role:

- **Majority Subcontractor**
- **Prime contractor: Boyle Engineering Corporation, Orlando, Florida**
- **Services provided on or under budget and in a timely manner**