

REFERENCES, RELATED EXPERIENCE,
AND EXAMPLES OF WORK

Client Representative:

Mr. Brian Rolley

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SF Water Department**Water Supply and Treatment Division**

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San Francisco**Public Utilities Commission**

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Key Project Personnel:

Graham Bell, PhD, P.E.**Project Principal****Eric Frechette, P.E.****Project Engineer****Richard Pousard****Field Engineer****San Francisco Public Utilities Commission****Corrosion Control Master Plan**

Services Provided:

- Conducted field work as a basis for the 1999 Corrosion Control Master Plan and Cathodic Protection Designs for New Construction
- Constructed corrosion control database for ongoing maintenance program
- Assessed effectiveness of overall cathodic protection program
- Prepared summary reports and system schematics to document cathodic protection and electrical isolation
- Performed corrosion control survey for 108 miles of large diameter water transmission piping
- Designed cathodic protection for large diameter piping in sensitive urban alignment
- Established unique ID system to relate corrosion data to written reports, corrosion control database system schematics
- Assessed impact of cathodic protection system on PCCP reaches
- Performed on-call investigations at leak sites and excavations
- Investigated CSSA 60-in pipeline using non-intrusive test methods (soil corrosivity assessment, stray current, GPS mapping of facilities, and laboratory services)
- Reviewed design of cathodic protection for Crystal Springs pipeline 3, phase IV

**Schiff Associates Response:**

As needed corrosion engineering services to conduct surveys and inspections of 40 cathodic protection systems for 108 miles of large diameter water pipelines. Schiff Associates provided technician services and aid with the implementation of a corrosion control database and mapping systems for cathodically protected steel pipelines and unprotected pre-stressed concrete cylinder pipelines.