
On-Call Coatings Consultant Services

CCC&L

Corrosion Control



Client/Owner: Triborough Bridge & Tunnel Authority
Project Location: New York, NY

As part of an on-call contract with the Triborough Bridge & Tunnel Authority, CCC&L provided consulting services for various assignments which included:

- ❑ Performing quality assurance audits of all significant paint projects. The audits were performed to assure that the construction inspection firms were all imposing equal requirements on the painting contractors and were maintaining adequate records. The painting contractors work and records were audited for compliance with the specifications. Included in the audit was an evaluation of issues related to environmental protection, waste handling and disposal, and worker protection.
- ❑ Presenting lead awareness training classes to engineering offices within TBTA. The purpose of this one-day course was to explain lead regulations to engineers responsible for preparing specifications, and to emphasize TBTA protocols and requirements for handling such items as environmental protection and monitoring, waste handling and disposal, and worker protection.
- ❑ Evaluations and recommendations on protecting suspension cables, anchorages and towers. A major study was performed on the various components of TBTA's four suspension bridges. The purpose was to determine expected coating life/repaint cycles

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and to make recommendations to extend coating life. The major suspension cable components as well as the critical cable components were examined and recommendations were made which included changes in design, changes in materials, and changes in procedures. Both general recommendations and facility-specific recommendations were presented.

- ❑ Performing inspections during warranty repairs to coating systems. Recommendations were provided to the Paint Group on the adequacy of repairs being performed. The intent was to make sure that repair procedures were appropriate and being enforced equally at all facilities.
- ❑ Evaluation of polymer concrete applications on orthotropic bridge decks. Evaluated various adhesion measurement methods and other tests to determine if it was possible to locate areas of poor bonding for repair. Possible causes for poor adhesion were also identified. Recommendations were made on sealers, and samples from test applications were evaluated in the laboratory for penetration of these sealers.
- ❑ Evaluation of TBTA's painting practices in comparison to other bridge owners and making recommendations on future technologies to consider for both surface preparation and coating materials.
- ❑ Evaluation of coating conditions in a garage facility and recommendations on maintenance painting.
- ❑ Evaluation of coating conditions on light poles, gantries, and railings and recommendations for painting.