Project Title: C-06-39 : Evaluation of Metallized Bridge Structures
PIN: New Project
Responsible Unit: Technical Services, Engineering Division
Project Manager: Feliciano, William

Project Goal:
The purpose of this investigation is to evaluate performance of metallized bridge structures and to conduct a life-cycle cost-benefit analysis comparing metallized coating to conventional bridge painting (organic zinc three-coat paint). Guidance on what type of metallizing material should be used in varying environments will be prepared along with draft specifications and draft Quality Assurance/Quality Control procedures for metallizing.

Actions Proposed:
• Conduct literature search on metallized bridges.
• Evaluate existing metallized bridges in New York State (first priority) and if needed to have a reasonable sample size, evaluate metallized bridges in other states (second priority given to adjacent states).
• Conduct a life-cycle cost-benefit analysis comparing metallized coating to conventional bridge painting (organic zinc three-coat paint).
• Prepare guidance on what metallizing material (e.g. 100% zinc, 100% Al, 85/15 Zn-Al) to use in various environments.
• Preparation of recommended specifications and Quality Assurance/Quality Control procedures for metallizing bridges

Anticipated Work Products and Accomplishments:
• Final Report
• Guidance Documents on Metallizing
• Draft Specifications and Quality Assurance/Quality Control procedures

Proposed Budget: $150,000