

DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

Office of Structural Materials

Quality Assurance and Source Inspection



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Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 75.15**SOURCE INSPECTION REPORT****Resident Engineer:** Pursell, Gary**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** SIR-001135**Date Inspected:** 23-Oct-2009**Project Name:** SAS Superstructure**OSM Arrival Time:** 730**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 1800**Contractor:** Shanghai Pujiang Cable Co. (SPCC)**Location:** Bao Steel, Shanghai**Quality Control Contact:** Mr. Pei**Quality Control Present:** Yes No**Material transfer:** Yes No N/A**Sampled Items:** Yes No N/A**Stock Transfer:** Yes No N/A**OK to Cut:** Yes No N/A**Rebar Test Witness:** Yes No N/A**Delayed/Cancelled:** Yes No N/A**Other:** Witnessed tensile tests for 5.4mm diameter galvanized wire**Bridge No:** 34-0006**Component:** 5.4mm galvanized wire**Bid Item:** 66A**Lot No:** B240**Summary of Items Observed:**

Caltrans QA Inspector Mr. Wai Pau traveled to Bao Steel and witnessed tensile tests for galvanized wire from coil # h30910-529-1/2 to h30910-552-1/2. The coil heat number is 556944. All the tensile tests have been recorded on an electronic spreadsheet and accepted by Bao Steel technicians. Caltrans QAI verified that accuracy of tensile strength test readings that were indicated on digital indicator at the time of rupture for each wire. Based on Caltrans QA observations, the tensile tests appeared to be in compliance with the requirements of Caltrans Special Provisions and contract documents.

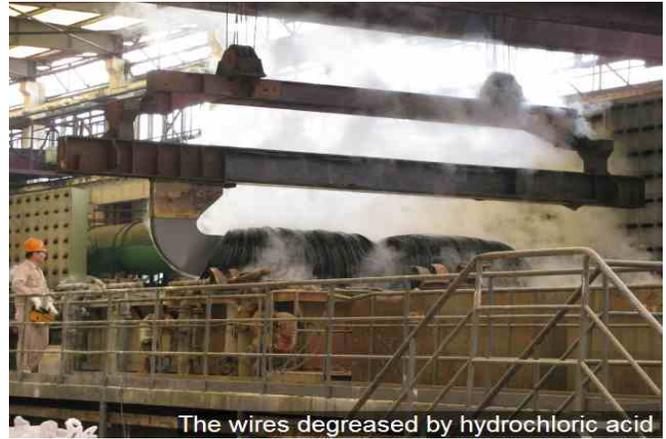
Caltrans QA Inspector observed two Bao Steel workers in process of automatic hot dip galvanizing for 5.4mm diameter wires. All of wires have been degreased by hydrochloric acid prior for galvanizing. The wires have been released from reels to solvent treatment system, which is covering the surface of clean steel wire with a layer of salt chloride. After drying the wires, the solvent is reacted with zinc at inlet wire of zinc tank, ensuring clean surface of steel wire for sufficient metal diffusion inside zinc tank. The wires will transfer to galvanizing tank; during hot galvanizing the zinc-iron temperature showed on digital indicator is 450 C. The galvanized wires are cooled by water. Based on Caltrans QAI observations, no discrepancies were noted.

SOURCE INSPECTION REPORT

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The wires go into the hot galvanizing tank



The wires degreased by hydrochloric acid



The wires transfer to reels after galvanizing

Summary of Conversations:

As notes within report above.

Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Serge Sinevod 13482570045 , who represents the Office of Structural Materials for your project.

Inspected By:	Pau,Wai	Quality Assurance Inspector
Reviewed By:	Clifford,William	QA Reviewer
