

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 #: 99.15**SOURCE INSPECTION REPORT****Resident Engineer:** Pursell, Gary**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** SIR-000325**Date Inspected:** 15-Dec-2008**Project Name:** SAS Superstructure**OSM Arrival Time:** 700**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 1900**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island**Location:** Changxing Dao, Shanghai**Quality Control Contact:** William Oak (ABF)**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:** Coatings Inspection**Bridge No:** 34-0006**Component:****Bid Item:** 79**Lot No:****Summary of Items Observed:**

QA Inspector Donald Jordan asked ABF Paint Supervisor William Oak to show him where the steel that was painted previously is being stock piled. Mr. Oak escorted Mr. Jordan to Heavy Structures Building #3, bays 7 and 8. The floor beams are being assembled there. Floor beam sections, box beams and connection splice plates were being assembled.

The 2 issues on this steel are: the zinc coating was applied in the old paint shop that was not approved by Caltrans.

The zinc coating failed the lab test used to confirm that the coating meets the contract requirements.

The applied coating passed the adhesion pull test and the mek solvent rub test.

The faying surfaces that were to be bolted together are the areas that were painted. Upon visual inspection of the floor beams and box beams, other than minor normal shop damage from working on and moving around heavy steel, the coating is not delaminating or cracking.

It was pointed out to Mr. Oak that the splice plates stacked outside the North door needs to be corrected prior to permanently installing the plates. The inside of the holes of the plates show some rust and the coating used to swab the inside of the holes has a yellow tint instead of green. He said he would point this out to ZPMC.

Summary of Conversations:

Mr. Oak stated that the procedure for installing the material painted so far is that the floor beams are being assembled temporarily. Black bolts are being installed until after the abrasive blasting is performed. The bolts will be pulled out and the specified bolts installed then so the galvanized coating will not be destroyed by the blast abrasive. The only areas that will not be abrasive blasted again will be the faying surfaces between the connections.

Comments

SOURCE INSPECTION REPORT

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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 Jordan, Don, who represents the Office of Structural Materials for your project.

Inspected By:	Jordan,Don	Quality Assurance Inspector
Reviewed By:	Mertz,Robert	QA Reviewer
