DEPARTMENT OF TRANSPORTATION
DIVISION OF ENGINEERING SERVICES
Office of Structural Materials
Quality Assurance and Source Inspection

Bay Area Branch
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Contract #: 04-0120F4
Cty: SF/ALA Rte: 80 PM: 13.2/13.9
File #: 99.15

SOURCE INSPECTION REPORT

Resident Engineer: Pursell, Gary
Address: 333 Burma Road
City: Oakland, CA 94607

Report No: SIR-000323
Date Inspected: 12-Dec-2008

Project Name: SAS Superstructure
Prime Contractor: American Bridge/Fluor Enterprises, a JV
Contractor: Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island

OSM Arrival Time: 1900
OSM Departure Time: 2300
Location: Changxing Dao, Shangha

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:

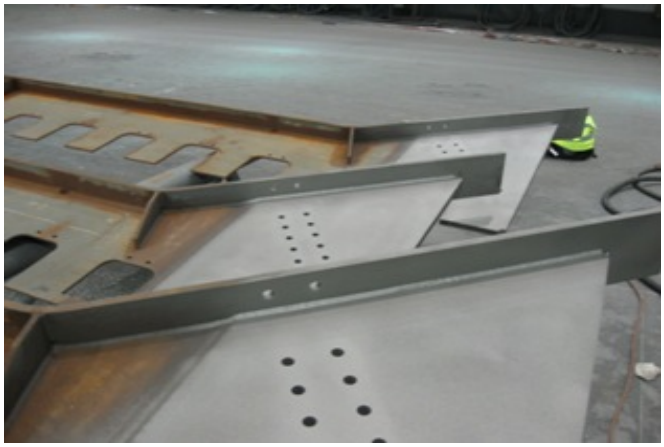
A blast inspection was requested by ABF at 20:30. They completed the blasting early so the inspection was moved up to 19:30. ZPMC and ABF QC inspectors and International Coatings representative were present and performing their tasks. The faying surfaces of (5pcs) Diaphragm top part: FB003-021, FB003-031, FB003-032, FB003-43, FB03-049; (4 pcs) Diaphragm bottom part: FB005-008, FB013-009, FB013-013, FB015-043 were abrasive blasted using steel recyclable abrasive in a controlled environment. Deficiencies were corrected prior to QA inspection. ZPMC QC performed ambient conditions and profile readings witnessed by all parties to be satisfactory. Relative Humidity in the blast area was 66%. The Testex blast profile tapes (X-Course) taken were read using a micrometer. 3 tapes were taken on different pieces in the faying surface area. Micrometer readings were 66ug, 78ug and 76ug averaging 73.33ug blast profile.

The pieces listed above were transported to the paint bay inside the same building (Separated by 2 rollup doors) by forklift.

One kit of International Coatings Interzinc 22 (Part A base batch # JF0964PV, Part B zinc powder batch # JF0963PV, Thinner available batch # JK3204PV) was mixed using a hand held power mixer. Addition of thinner if any was not witnessed by QA. The zinc power was slowly poured into the base as it was being agitated. The mixed coating was then poured into a conventional spray pot of suitable size to contain the entire mixed kit. Mixed coating temperature was not observed by QA. The spray pot is equipped with a working agitator to keep the material mixed. The spray gun is of the conventional type with separate air and fluid lines running from the spray pot to the gun. With this type of spray gun the fluid is released from the gun by pulling the trigger. Air from the air cap atomizes the fluid outside the gun to create a spray fan.

Ambient conditions in the paint area taken prior to applying the steel were 65.6% RH, 8.6ºC dew point, 11.7ºC steel temp. Application of the coating began within the specified 4 hour window from blasting. The applicator

used an overlapping method (appearing to be approximately 50% overlap visually) keeping the flow of material parallel to the steel (no flipping or fanning of the wrist).



Summary of Conversations:

After coating application began, QA inspector Donald Jordan asked the International Coatings Representative Peng if he liked what he saw during the inspection and observation. He said it was very good.

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 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