

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 #: 69.15**SOURCE INSPECTION REPORT****Resident Engineer:** Pursell, Gary**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** SIR-000122**Date Inspected:** 15-Oct-2007**Project Name:** SAS Superstructure**OSM Arrival Time:** 900**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 1530**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **Location:** Shanghai China**Quality Control Contact:** N/A**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:** N/A**Bridge No:** 34-0006**Component:** Charpy V-Notch Test Samples**Bid Item:** 52 (SF)**Lot No:** N/A**Summary of Items Observed:**

The Caltrans Quality Assurance Inspector Roscoe Dixon and Daniel Hernandez arrived at the Testing Center of the Shanghai Institute of Iron and Steel Technology (SIIST) at 99 Handan Road to witness the testing of Charpy impact specimens and tensile tests specimens which had been sent to this facility for the purpose of being tested in order to verify the accuracy of the facilities Charpy V-Notch impact testing machine.

Quality Assurance Inspector Dixon was accompanied Caltrans QA Inspector Daniel Hernandez to witness the testing of sample test specimens. The senior engineer of the mechanical testing laboratory Mr. Jian Jiang and testing technician Mr Yan Jun supplied QA Dixon with certificate documents from the National Institute Of Standards & Technology (NIST) along with two sealed packages of Charpy v- notch specimens identified as verification Specimens for Charpy v notch impact machines Lot No. LL107 2092 Low energy and lot No. HH109 high energy tests specimens.

QA Inspector Dixon reviewed the documents and visually verified the contents of each packages. The low energy specimen's lot # 2092 was accompanied with a note stating that the homogeneity of the specimens was such that only 4 bars were required to determine an accurate result per ASTM E 23; however the high energy specimens lot No. HH109 contained five specimen bars.

QA Inspector Hernandez verified the calibration due date as 11/14/07 on the impact testing machine and 7/18/08 on the temperature measuring machine.

Mr. Yan Jun performed a wind loss friction swing for the impact-testing machine just prior to the start of testing and informed QA Dixon that the friction and windage loss of 0.47 was within tolerance per ASTM E23

Caltrans (QA) Inspector's Roscoe Dixon and Daniel Hernandez witnessed impact testing on the above listed Charpy

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v- notch samples listed as lot # LL107 2092 low energy specimens, and the results were recorded with the energy value measured in Joules(J) as follows: # 1 (16.6 J), # 2 (15.7 J), # 3 (14.1 J), and # 4 (14.4 J).

Caltrans (QA) Inspector's Roscoe Dixon and Danny Hernandez witnessed impact testing on the above listed Charpy V- notch samples listed as lot # HH109 2096 high energy tests specimens: # 1 (104 J), #2 (109 J), #3 (104 J), #4 (104 J) and # 5 (105 J).

A total of nine specimens were tested at -40 degrees Celsius on this date and the QA Inspector reviewed the joules recorded on the digital screen of the testing machine for each charpy v-notch specimen tested. Mr. Jian Jiang and Mr Yan Jun informed the QA Inspector that all specimen samples passed the required testing.

The above testing witnessed by the QA Inspector for the impact testing performed on this date appeared to conform to the requirements of ASTM E 23. The following digital photographs illustrate testing procedure.

Item Description	WBS	Dwg No.	Status
1 Charpy V-Notcht tests specimens Verification Specimens for charpy v-notch impact machines low energy reference materials 2092 lot # LL 107 and high energy reference materials 2096 lot # HH 109	N//a	N/A	

Summary of Conversations:

All relevant work related conversations are as noted within the report shown 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 Mazen Wahbeh, (818) 292-0659, who represents the Office of Structural Materials for your project.

Inspected By:	Dixon,Roscoe	Quality Assurance Inspector
Reviewed By:	Cochran,Jim	QA Reviewer
