

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: 13.9/14.3,0.0/1.6File #: 69.15**SOURCE INSPECTION REPORT****Resident Engineer:** Pursell, Gary**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** SIR-000152**Date Inspected:** 12-Nov-2007**Project Name:** SAS Superstructure**OSM Arrival Time:** 1400**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 2300**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **Location:** Shanghai, China**Quality Control Contact:** Mr. Pudong Hong**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 (CVN) test specimens**Bid Item:** 52 (SF)**Lot No:** N/A**Summary of Items Observed:**

Assurance Inspector Roscoe Dixon arrived at the Shanghai Research Institute of Materials (SRIM) 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.

This quality Assurance Inspector Dixon met with Mr. Wang Bing, Professor & Senior Engineer Deputy Director of Testing Center to witness the testing of sample specimens.

Mr. Bing supplied QA Inspector Dixon with certificate documents from the National Institute Of Standards & Technology (NIST) along with two 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.

This 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.

This QA Inspector verified the calibration due date as 01/02/08 on the impact testing machine and 10/24/08 on the temperature measuring machine.

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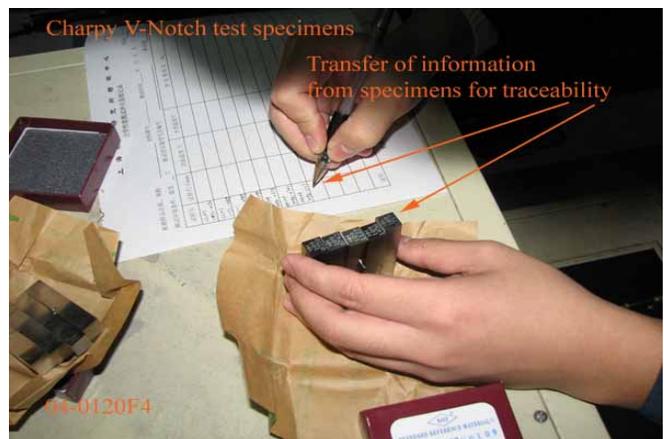
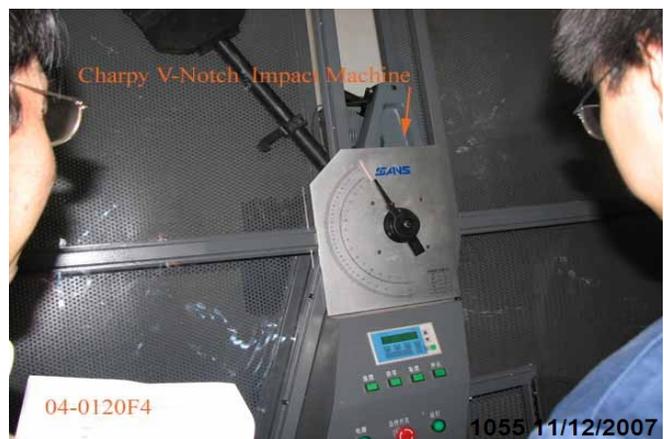
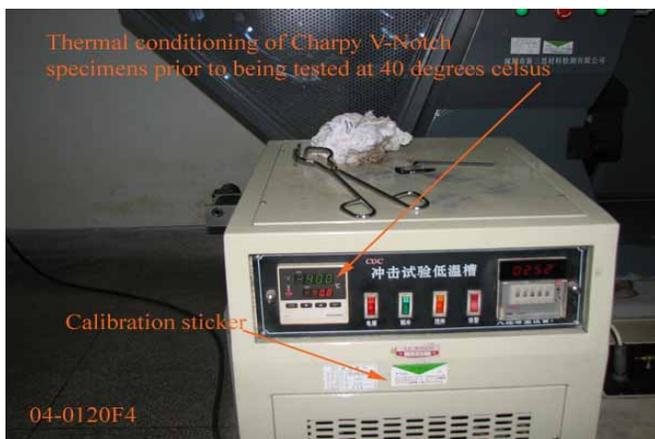
Mr. Pudong Hong performed a wind loss friction swing for the impact-testing machine just prior to the start of testing and informed QA Dixon that the friction and windage loss of 0.34 was within tolerance per ASTM E23

This (QA) Inspector witnessed impact testing on the above listed Sharp v- notch samples listed as lot # LL107 2092 low energy specimens, and the results were recorded as follows: # 1 (14.4 joules), # 2 (15.7 joules), # 3 (14.4 joules), and # 4 (15 joules).

Caltrans (QA) Inspector's Roscoe Dixon witnessed impact testing on the above listed Charpy V- notch samples lists as lot # HH109 2096 high energy tests specimens: # 1 (101.6 joules), #2 (104.9 joules), #3 (102.4 joules), #4 (95.1 joules) and # 5 (104.1 joules).

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. Wang Bing and Mr Pudong Hong 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.



Summary of Conversations:

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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
