

DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

Office of Structural Materials

Quality Assurance and Source Inspection



Bay Area Branch
690 Walnut Ave. St. 150
Vallejo, CA 94592-1133
(707) 649-5453
(707) 649-5493

Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 70.28**WELDING INSPECTION REPORT****Resident Engineer:** Pursell, Gary**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** WIR-004904**Date Inspected:** 09-Dec-2008**Project Name:** SAS Superstructure**OSM Arrival Time:** 830**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 1700**Contractor:** Japan Steel Works**Location:** Muroran, Japan**CWI Name:** Makhmud Ashadi**CWI Present:** Yes No**Inspected CWI report:** Yes No N/A**Rod Oven in Use:** Yes No N/A**Electrode to specification:** Yes No N/A**Weld Procedures Followed:** Yes No N/A**Qualified Welders:** Yes No N/A**Verified Joint Fit-up:** Yes No N/A**Approved Drawings:** Yes No N/A**Approved WPS:** Yes No N/A**Delayed / Cancelled:** Yes No N/A**Bridge No:** 34-0006**Component:** Tower, Jacking and Deviation Saddles**Summary of Items Observed:**

On this date, Caltrans Office of Structural Materials (OSM) Quality Assurance Inspector (QA) James Weaver was present at the Japan Steel Works (JSW) jobsite in Muroran, Japan for the purpose of observing in-process fabrication of components for the Tower, Jacking and Deviation Saddles. Current work: Casting, machining, welding and nondestructive testing of Saddles and Bases.

T1-3 Base

The QA inspector observed the Magnetic Particle (MT) inspection of the root passes on weld 9Y-6V (3-2). The MT inspections were performed by The Nikko Inspection Services QC/NDT technician Mr. K. Kobayashi. MT was performed in accordance with ASTM standard E709 and Nikko Inspection Services procedure SF-MT-01 using the yoke method with dry visible powder. The testing was evaluated in accordance with the contract special provisions. No relevant indications were marked by Mr. Kumagia. The testing was not completed on this date and the work appears to meet the minimum requirements of the contract specifications.

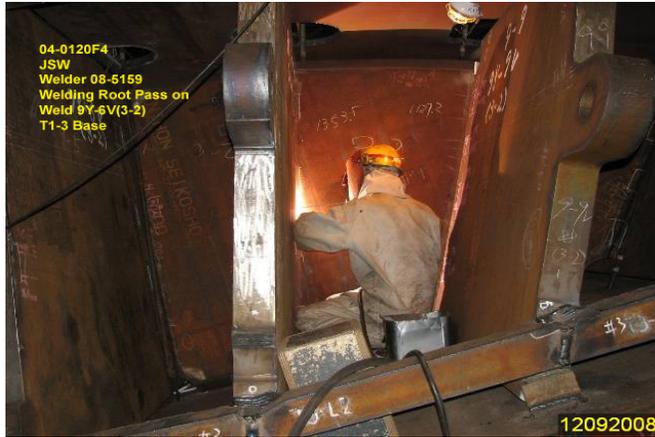
QA Observed the JSW welding personnel welding the root pass on weld joints 9Y-8V (3-3), 9Y-6V (3-2), 9Y-10V 93-2) and 9Y-7V (3-3) The welding was performed utilizing the Shielded Metal Arc Welding (SMAW) process. The welding parameters and heat control were monitored by Intertek Testing Services Quality Control (QC) inspector Mr. Chung-Fu Kuan at periodic intervals. The minimum preheat temperature of 110°Celsius was verified to meet the WPS requirements by Mr. Kuan was observed by the QA inspector utilizing Tempilstik temperature indicators. This data was entered into the QC inspector's daily log, identifying the location on a weld map. The work was not completed on this date and appears to meet the minimum requirements of the welding procedure specification and contract documents.

WELDING INSPECTION REPORT

(Continued Page 2 of 2)

T1-1

QA observed JSW personnel laying out the weld center line on the casting in preparation to fitting the base to the casting.



Summary of Conversations:

There were general conversations with Intertek Testing Services Certified Welding Inspector Mr. Makhmud Ashadi relative to the location of the welding and inspection personnel in the fabrication shop number 4.

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 Ryan Smith, (858) 232-6799, who represents the Office of Structural Materials for your project.

Inspected By:	Weaver,James	Quality Assurance Inspector
Reviewed By:	Lanz,Joe	QA Reviewer
