

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 #: 70.28**WELDING INSPECTION REPORT****Resident Engineer:** Pursell, Gary**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** WIR-004564**Date Inspected:** 10-Nov-2008**Project Name:** SAS Superstructure**OSM Arrival Time:** 800**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 1600**Contractor:** Japan Steel Works**Location:** Muroran, Japan

CWI Name:	Chung Fu-Kuan		
Inspected CWI report:	Yes	No	N/A
Electrode to specification:	Yes	No	N/A
Qualified Welders:	Yes	No	N/A
Approved Drawings:	Yes	No	N/A

CWI Present:	Yes	No	
Rod Oven in Use:	Yes	No	N/A
Weld Procedures Followed:	Yes	No	N/A
Verified Joint Fit-up:	Yes	No	N/A
Approved WPS:	Yes	No	N/A
Delayed / Cancelled:	Yes	No	N/A

Component: Tower, Deviation and Jacking Saddles

Bridge No: 34-0006**Summary of Items Observed:**

On this date OSM Quality Assurance (QA) Representative Daniel L. Reyes was present during the welding of the structural steel components regarding the Tower and West Deviation Saddles relative to this project. The following was observed:

Fabrication Shop # 4

At the start of the shift, the QA inspector traveled to the fabrication shop to observe the scheduled welding of the Partial Joint Penetration (PJP) groove welds on the Tower Saddle identified as T1-2. The welding process utilized appeared to be the Shielded Metal Arc Welding (SMAW) and was performed by the following JSW welding personnel; Kobayashi Kouzou ID 08-5023 and Kato Makoto ID 08-5018. The Welding Procedure Specification (WPS) utilized by the welders appeared to be SJ-3012-2 which was also used by the Intertek Testing Service (ITS) Quality Control (QC) Inspector Chung Fu-Kuan as a reference during verification of the welding parameters. It was also noted by the QA inspector that JSW Distortion Control Plan identified as Document No. SJ-3151Rev. 3 was utilized in conjunction with the WPS. The welding of the PJP groove weld was performed on the rib to stem connection identified as weld numbers 8Y-5V (2-2) and 8Y-5V (2-3). The welding was performed in the vertical (3G) position with the work in the vertical plane and the axis of the weld vertical.

The QA inspector observed, at random intervals, the QC inspector performing verification the surface temperatures of and the welding parameters during the welding of the root pass and subsequent weld layers.

The consumables utilized appeared to be a Hobart Brothers product and was identified as a Hoballoy 9018-M, with a diameter size of 4.0 which appeared to comply with the AWS Specification A5.5 and the AWS Electrode Classification E9018-M H4R.

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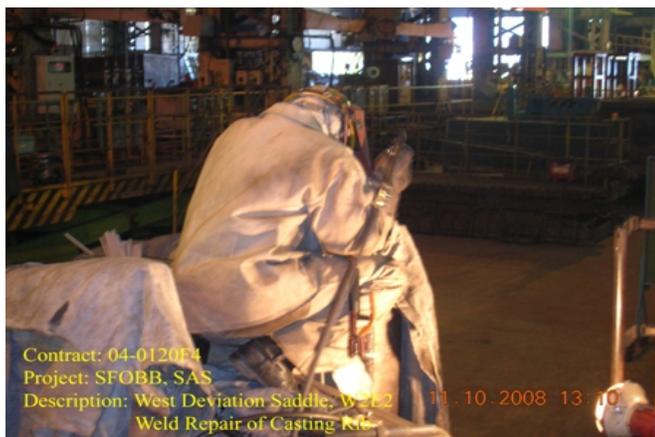
Foundry Shop

Later in the shift, the QA inspector traveled to the Foundry Shop to observe the continued repair welding of the rib build-up areas on the West Deviation Saddle Casting identified as W2E2. The repair welding is being conducted at Lane 1 of the Foundry Shop at the designated area identified as “The Gouging and Grinding Area.” The welding was performed on the rib identified as Rib 8U by JSW welding personnel Kazuya Komai ID 06-8002 utilizing the SMAW process as per the WPS SJ-3026-2. The WPS was also used by the Welding Engineer, Tomio Imai as a reference during the verification of the welding parameters and surface temperatures.

The consumable utilized by the welder appeared to be a Hobart Brothers Product identified as LB-106, with the diameter size of 5.0mm which appeared to comply with the AWS Specification A5.5 and AWS Electrode Classification E10018-G. The welding was performed in the horizontal (2G) position with the work in the vertical plane and the axis of the weld horizontal.

The QA inspector’s observations were performed at random intervals during the shift. The QA inspector noted that it appeared the approved and latest revised WPS’s were posted at the welding station and that each approved welder was entered in the latest revised Welding Personnel Log issued by Japan Steel Works, Ltd. The welding parameters, preheat and interpass temperatures were verified by the QA inspector utilizing a Fluke 337 clamp meter for the electrical welding parameters and Tempilstik temperature indicators were utilized during the verification of the heat control. The filler metal utilized by the JSW welding personnel was also verified. The QC inspector ITS personnel, Chung Fu-Kuan and JSW Welding Engineer Tomio Imai appeared to perform the visual weld examinations, monitoring of the welding and the verification of the welding parameters in accordance with the contract documents.

The following digital photograph illustrates the observations of the activities performed on this date.



Summary of Conversations:

There were no pertinent conversations relative to the project on this date.

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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 Venkatesh Iyer, (858) 967-6363, who represents the Office of Structural Materials for your project.

Inspected By:	Reyes,Danny	Quality Assurance Inspector
Reviewed By:	Lanz,Joe	QA Reviewer
