

DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

Office of Structural Materials

Quality Assurance and Source Inspection



Bay Area Branch
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Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 69.28**WELDING INSPECTION REPORT****Resident Engineer:** Pursell, Gary**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** WIR-015983**Date Inspected:** 20-Jul-2010**Project Name:** SAS Superstructure**OSM Arrival Time:** 700**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 1900**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **Location:** Shanghai, China

CWI Name:	N/A	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:	OBG COMPONENT	

Summary of Items Observed:

On this date Caltrans OSM Quality Assurance (QA) Inspector, Subhasis Bera was present during the times noted above for observations relative to the work being performed.

Ultrasonic Testing (A,B,C and D-Scan)

This QA Inspector performed Ultrasonic testing (UT) 10% of the area previously tested and accepted by ZPMC Quality control personnel. This QA inspector generated a (UT) report for this date. The member is identified as corner joint joining edge plate to deck plate for segment 11CW. This Inspection was performed after ABF UT Inspectors performed UT of this joint. The result was recorded onto a data sheet according to rejection criteria of "D" Scan procedure that Caltrans QA and ABF QA have jointly filled out on this date.

The Weld Designations are as follows

CA085-004

CA086-004

Ultrasonic Testing (UT)

This QA Inspector performed Ultrasonic testing (UT) 10% of the area previously tested and accepted by ZPMC Quality control personnel. This QA inspector generated a (UT) report for this date. The members are identified as segment 11BE.

WELDING INSPECTION REPORT

(Continued Page 2 of 2)

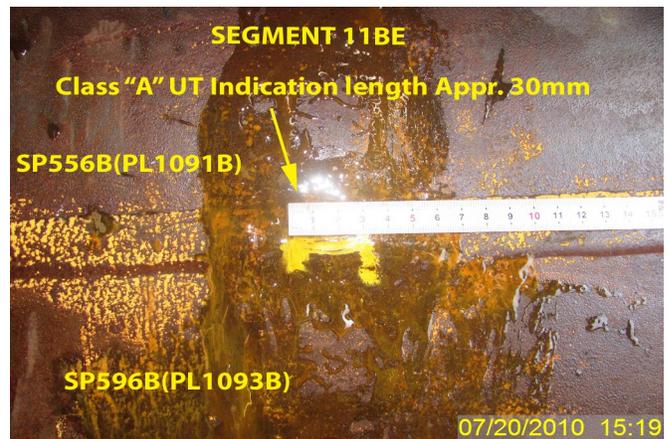
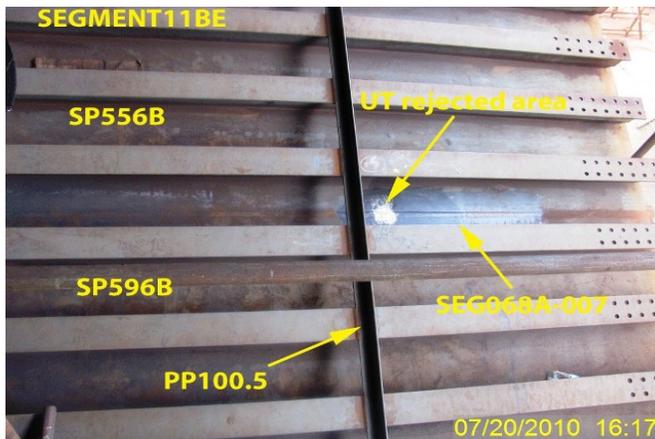
The welds designation reviewed are as follows:

SEG068A-006,008,009,033,039

During the Quality Assurance Ultrasonic Testing (UT) review of welds located on Orthotropic Box Girder (OBG) segment 11BE, this Quality Assurance Inspector (QA) discovered the following issues that One (1) longitudinal linear Class "A" rejectable indication measuring approximately 30 mm in length. The indication dbfs rating is a +5. Material thickness is 16mm. The depth of the indication is approximately 12mm. The weld is identified as SEG0068A-007 at the Crossbeam side in between Side Plate SP596B (PL1093B) and Side Plate SP556B (PL1091B). The weld is designated as a Seismic Performance Critical Member (SPCM). The indication is clearly marked on or near the weld. The Y distance for this indication is 1620mm from edge of Side Plate. The weld is a Complete Joint Penetration (CJP) butt joint, joining SP596B to SP556B. Segment 11BE is located near Trial Assembly Yard. The Notice of Witness Inspection (NWIT) No. is 006235. The indication is located within an area previously tested and accepted by ZPMC Quality Control (QC) personnel. As per the contract documents, ZPMC's QC personnel are required to perform hundred (100%) percent UT inspection of this weld.

The QA Inspector generated an incident report on this date.

Unless otherwise noted, all work observed on this date appeared to generally comply with applicable contract documents.



Summary of Conversations:

No relevant conversations

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 Eric Tsang 150-0042-2372, who represents the Office of Structural Materials for your project.

Inspected By: Bera, Subhasis

Quality Assurance Inspector

Reviewed By: Patterson, Rodney

QA Reviewer