

STONE AND WEBSTER MICHIGAN INC

MIDLAND ENERGY CENTER PROJECT

VERIFICATION ATTRIBUTE CHECKLIST

ATTRIBUTE CHECKLIST N° P-2.20V	TITLE PIPE SUPPORTS	REV 0	DATE 7/21/83
PQCI N°/REFERENCE P-2.20	TITLE PIPE (COMPONENT) SUPPORTS FABRICATION	REV 7	DATE 2/21/83

This Attribute Checklist shall be completed in accordance with the following procedures.

Stone & Webster Quality Assurance Plan Third Party CIO procedure.

QCI 10.01 Construction Implementation Overview Assessment
QCI 15.01 Nonconformance Identification Report

S.W. Baranow
S.W. Baranow
Program Manager

Attribute Checklist prepared by

SIGN *W.D. Miller* DATE 7/27/83

Checklist Approved by

SIGN

J. Thompson
S. Baranow

DATE 7/27/83
7/26/83

Checklist Completed by

SIGN

DATE

Completed Checklist Approved

SIGN

DATE

B310190036 B30901
PDR FOIA
GARDEB3-449 PDR

Attachment 3.2

FOR INFORMATION ONLY

A/7

ATTRIBUTE CHECKLIST

ITEM NO.	ATTRIBUTES	RESP. OF G.	OBSERVATIONS		COMMENTS
			NO. CKD.	NO. UNSAT.	
1	Review the inspection criteria and add additional attributes as necessary. PAGE 3 (V)				
2	Verify that documents required to perform inspection are available, approved and controlled. PAGE 3 PARAGRAPH 2 (VI)				
3	Has the CQCE determined the adequacy of "reference criteria." PAGE 3 PARAGRAPH 4 (VI)				

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ATTRIBUTE CHECKLIST

ITEM NO.	ATTRIBUTES	RESP. ORG.	OBSERVATIONS		COMMENTS
			NO. CKD.	NO. UNSAT.	
4	Verify that nonconforming items are identified on an NCR. PAGE 5 PARAGRAPH 6 (XV)				
5	Verify that measuring devices used for inspection and test have current calibration. PAGE 4 PARAGRAPH 5 (XII)				
6	If sampling plans are used verify the following: <ul style="list-style-type: none"> • Is the plan approved • Are there instructions for implementing the plan • Is accept reject criteria clearly established. GENERAL				

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ATTRIBUTE CHECKLIST

ITEM NO.	ATTRIBUTES	RESP. ORG.	OBSERVATIONS		COMMENTS
			NO. CKD.	NO. UNSAT.	
7	Indicate any Hold Points required By ANI, NRC, CPCo, BPC, or CIO. GENERAL (XIV)				
8	Is the Inspection Record complete. Verify completeness, legibility and sign-off. GENERAL (XIV)				
9	Verify that Inspection Personnel, Craftsmen and Supervisors are trained, qualified and certified as necessary to perform their assigned tasks. GENERAL (II)				

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			NO. CKD.	NO. UNSAT.	
10	<p>Verify that material and components are not damaged and are protected from adjacent construction activities e.g. welding, cutting, burning, painting or concrete placement.</p> <p>GENERAL (XIII)</p>				
11	<p>Verify that any inspection activity exceptions are noted on the IR and processed in accordance with PSP G-3.2.</p> <p>PAGE 15 PARAGRAPH 5.2 (XIV)</p>				
12	<p>Verify that the CQCE has coordinated with interfacing disciplines and that interfacing IR's are documented on the IR pertaining to the PQCI.</p> <p>PAGE 6 PARAGRAPH 1 (XIV)</p>				

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			NO. CKD.	NO. UNSAT.	
13	<p>Verify for In-Process Inspection the following</p> <ul style="list-style-type: none"> If preheat is required above 70° the thermometer number is to be recorded with calibration due date . <p>PAGE 8 PARAGRAPH 2.1 (X)</p>				
14	<p>Verify on full penetration welds the following:</p> <ul style="list-style-type: none"> Fit-up Tack welds removed or properly incorporated into the welds Correct inert gas and purging is correctly applied Back gouging of double groove welded joints is performed as per procedures <p>PAGE 8 PARAGRAPH 2.2 A thru D (X)</p>				

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			NO. CKD.	NO. UNSAT.	
15	<p>Verify hot bending is in accordance with specifications and if thermometer used, record number and calibration due date.</p> <p>PAGE 9 PARAGRAPH 2.3 (X)</p>				
16	<p>Verify following on Final Inspection:</p> <ul style="list-style-type: none"> • Material identified as "Q" material • Material spec & grade in compliance with bill of material • Substitution of material identified on bill of material and approved by engineering • Identification and traceability on all material. (see notes 1 thru 5 Page 10,11) <p>PAGE 10,11 PARAGRAPH 3.1 A,B,C Note 1 thru 5 (X)</p>				

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ATTRIBUTE CHECKLIST

ITEM NO.	ATTRIBUTES	RESP. ORG.	OBSERVATIONS		COMMENTS
			NO. CKD.	NO. UNSAT.	
17	Verify configuration and dimensions of supports are in accordance with drawings and specifications. PAGE 11 PARAGRAPH 3.2 (X)				
18	Verify threaded fasteners for correct type, size and quantity. PAGE 12 PARAGRAPH 3.3 (X)				

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ATTRIBUTE CHECKLIST

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			NO. CKD.	NO. UNSAT.	
19	<p>Verify completed welds for the following:</p> <ul style="list-style-type: none"> • Weld size and length • No additional welds • Weld location • Surface appearance • Surface preparation for NDE • Welders symbol on work <p>PAGE 12 PARAGRAPH 3.4 (X)</p>				
20	<p>Verify welders are qualified to procedures that are being used and welders symbols are recorded on the IR.</p> <p>PAGE 12 PARAGRAPH 3.5</p> <p>NOTE: FOR NDE SEE CHECKLIST # MP-MIS-006</p>				
21	<p>Verify weld repairs completed and inspected in accordance with activity 3.4.</p> <p>PAGE 13 PARAGRAPH 3.7 (X)</p>				

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			NO. CKD.	NO. UNSAT.	
22	Verify completed support is marked with pipe line size, unit number, pipe class, line number and hanger number. PAGE 13 PARAGRAPH 3.8 (X)				
23	For additional welding attributes see Checklist N° MP-MIS-007 and MP-MIS-011.				

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