

MetalTek
INTERNATIONAL
BECAUSE YOU DEMAND MORE THAN METAL

SMCI Division

4121 Drane Field Road • Lakeland, FL 33811
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E-Mail: Dan.Grannan@MetalTek.com

December 17, 2015

United States Nuclear Regulatory Commission
Attn: Document Control Desk
Mechanical Vendor Inspection Branch
Division of Construction Inspection and Operational Programs
Office of New Reactors
Washington, DC 20555-001

Subject: Follow-up Response to Notice of Nonconformance
NRC Inspection Report No. 99901439/2015-201

Reference: Letter from Edward Roach (NRC) to Dan Grannan (MetalTek International), U.S.
Nuclear Regulatory Commission Inspection Report No. 99901439/2015-201
and Notice of Nonconformance, dated September 17, 2015.

Dear Mr. Roach,

In response to the NRC Response Letter and associated Notice of Nonconformances (NON), MetalTek International SMCI Division (SMCI) provides the enclosed follow-up response. This Response addresses questions and comments made by the NRC in regard to SMCI's response to the two (2) NONs. This response was revised to update the Westinghouse letter for NON 99901439/2015-201-01.

This letter is submitted based on our phone conversation on 10 November 2015 requiring clarification of a step in procedure QP 9.0.

SMCI understands the feedback received from the NRC in response to our initial response. We take that feedback very seriously; we recognize that the utmost attention to this feedback is the necessary response and provide the additional requested information.

Sincerely,



Dan Grannan
Quality Director
MetalTek International, SMCI Division

LEO9
NRD



Enclosure: SMCI Follow-up Response to Notice of Nonconformance 99901439/2015-201-01
AND 99901439/2015-201-02



**SMCI REPLY TO NOTICE OF NONCONFORMANCE 99901439/2015-201-01 AND
99901439/2015-201-02**

This is the SMCI Reply to the Notice of Nonconformance identified in NRC Inspection report No. 99901439/2015-201, dated July 24, 2015.

NONCONFORMANCE 99901439/2015-201-01

Question:

With respect to your response to NON 99901439/2015-201-01:

- a. Section 3.8.3.6.2, "Nondestructive Examination," of Revision 19 of the AP1000 design certification document (DCD), which is incorporated in the Combined License (COL) for Vogtle Electric Generating Plant (VEGP) Units 3 and 4 and Virgil C. (VC) Summer Generating Station, Units 2 and 3 states, in part, that "partial joint penetration (PJP) welds shall be visually inspected for 100 percent of their length," and "PJP welds shall also be inspected by magnetic particle or liquid penetrant examination for 10 percent of their length." Provide objective evidence that SMCI adequately incorporated the general notes concerning NDE requirements from the Westinghouse Electric Company (WEC) design specification drawings, which are derived from the requirements from Section 3.8.3.6.2 of the AP1000 DCD. As discussed during the NRC inspection of SMCI, this objective evidence could be in the form of a letter documenting WEC's official position from its structural design engineering and welding engineering representatives stating that the PJP is not required to be VT and MT examined, and that it still meets WEC's design stress requirements, including the requirements in Revision 19 of the AP1000 DCD, which is incorporated in the COL for VEGP and VC Summer.

- b. Currently, SMCI does not perform a VT and MT examination of the PJP weld, which provides the majority of weld strength, and therefore represents a larger load carrying capacity than the reinforcing fillet weld in meeting the design stress requirements. Since SMCI currently only performs a VT and MT examination of the reinforcing fillet welds, and not the PJP welds, this leaves the quality of the PJP welds to be indeterminate, and therefore, affects how these welds would meet their design stress requirements and would perform their intended safety. Provide the extent of condition for not performing the inspections of the PJP welds.

Response:

Westinghouse letter in response to this finding is provided as an attachment to this letter. The letter indicates this condition is satisfactory as performed and the extent of condition is not applicable.

NONCONFORMANCE 99901439/2015-201-02

With respect to your response to NON 99901439/2015-201-02, clarify your response as follows:

Question:

- a. The response did not address the NON in regards to providing objective evidence that there was adequate weld filler metal control. Specifically, as detailed in the NRC inspection report No. 99901439/2015-201, dated July 24, 2015, the NRC inspection team noted the following:
 1. Welders 121 and 140 were not issued any welding filler metal for the following:
 - i. Welds on embed plates on October 8, 2014, for traveler 926-CA01-01156 for the CA-01 module for VEGP Unit 3 performed by welder 121.
 - ii. Welds on embed plates on October 8, 2014, for traveler 926-CA01-01162 for the CA-01 module for VC Summer Generating Station Unit 2 performed by welders 121 and 140.

Response:

Weld filler metal log sheets were located and are attached showing issuance for welders 121 and 140 on 8 October, 2014.

Question:

2. Welder No. 72 used filler metal MI-15709, Heat/Lot No. 95138 to weld the beam seat as documented on traveler 926-CA01-00774, contrary to the filler metal he was issued and required to use (issued filler metal MI-15765, Heat/Lot No. 100285) for welding on module CA-01 (steam generator and refueling canal module) for VC Summer Generating Station Unit 2, on September 29, 2014.

Response:

Based on our review of the traveler and the issuance log, it would appear that the welder entered the incorrect weld wire. This is most likely because he entered what was entered for the weld listed above his. The weld filler metal listed and that issued are of the same classification and safety class as the wire required by contract, only a different lot number. Certified Material Test Reports (CMTRs) for both weld filler metal types attached. Both filler metal types are designated for this project. Weld filler material was controlled as evidenced by the weld wire issue log and the return dates documented in the log for September 29, 2014 for each filler material discussed.

Question:

Provide objective evidence that the correct filler metal was used for each of the above welds, and that there was adequate control of the welding filler metal, since use of the incorrect welding filler metal or a contaminated welding filler metal (if not adequately controlled) on safety related components that are not qualified may reduce the strength of the welds affecting the components' ability to perform its intended safety function.

Response:

SMCI conducted training with QC, welding and management personnel on the usage and importance of the issuance logs. Objective Evidence in the form of training attendance records are attached.

All retrievable weld wire issuance logs are scanned and available in the EPDM Vault.

Objective evidence is attached in the form of a record from the vault.

Procedure QP-9.0 was revised to reflect new log retention requirements. Procedure is attached.

Question:

- b. At the conclusion of the inspection on June 12, 2015, the NRC inspection team found that weld filler metal was not recorded on form WCIL-001 for the time period of June 28, 2014 through July 11, 2014, as required by Section 5.3.8 of QP-9.0. However, your response states that during the period the NRC inspection team was at SMCI, a search was conducted for the missing weld wire issue logs and all logs except for those dated July 7-9 were located. Confirm that after the NRC inspection team completed its inspection, SMCI located the missing weld logs (form WCIL-001). In addition, provide these recovered weld logs (form WCIL-001) for this time period of June 28, 2014 through July 11, 2014.

Response:

Missing weld filler issue log pages are attached for June 28 to July 6 and July 10 to 11. Logs for July 7, 8 and 9 are not reproducible. The objective evidence required by the contract for these safety related components is the CMTR, Traveler (work instruction) and the Inspection reports. These documents provide evidence of proper material type used, including the weld filler wire documented by heat/lot number on the traveler and the final NDE verifying specifications are met.

Question:

- c. The corrective action that will be taken for this NON is only to clarify the retention period of the weld consumable issuance log. However, the issue concerning NON 99901439/2015-201-02 was not the retention period for the Weld Consumable Issuance Logs, but the lack of control of filler metal by not following the procedure for issuance and controlling filler metal to ensure that it is used for its intended purposed and does not get contaminated. Therefore,

provide the corrective action taken concerning the lack of filler metal control for welders identified on the applicable travelers.

Response:

Weld wire issue log pages were located and information verified for welders 121 & 140. Weld wire written down by welder 72 verified to be of the same classification and safety class as the wire required by contract.

Training conducted with QC, Welding and management personnel on filler metal issuance & traceability.

Objective evidence to support these two items are previously attached.

Question:

- d. There is no action specified in the response to avoid future non-compliance associated with this NON, which is not following the filler metal issuance procedure for ensuring control of filler metal by providing traceability and accountability of filler metal so that it is used as intended. Therefore, provide the corrective actions that will be taken to avoid future non-compliances concerning filler metal control.

Response:

Training conducted with QC, Welding personnel and management personnel on filler metal issuance & traceability.

Objective evidence to support this is previously attached.

Question:

- e. Clarify and explain how long a welder can keep weld filler metal once issued, since the response is not clear whether filler metal can be kept out past a welders shift.

Response:

SMCI practice is to return filler metal at the end of the activity or end of shift whichever is earlier. Revision 8 of QP 9.0 was unclear and changed to reflect this practice.

QP 9.0 Rev 9 States:

5.7 Return of Weld Filler Metal

5.7.1 Weld filler metal not consumed shall be returned to the appropriate weld filler metal control box by Quality.

5.7.2 Unused weld filler metal is checked prior to storage at the end of each shift, or earlier.

This revision was not active in June but the verbiage from this section was edited for clarification from the version in force during the NRC inspection in June 2015.

Question:

- f. Explain what the specific change will be for procedure QP-9.0 in addressing this NON, since this was not addressed in the response.

Response:

QP 9.0 was changed to clarify the requirement to return weld filler metal issued by the end of each shift or earlier. The revised procedure is attached. The traceability of material is maintained as part of the fabrication traveler.

Question:

- g. Explain what objective evidence exists that a welder uses a particular filler metal as issued, since based on your response, the welder does not sign for each date that actual welding has been performed. The welder only signs when the joint is complete, as specified in your response; which could actually involve several days of welding or work.

Response:

Welders log the weld filler metal information and their initials & weld ID number into the fabrication traveler at the time of actual welding occurring. The only item on the traveler not filled in is the date block, which is completed when the entire weld is completed and ready for QC inspection.

SMCI is in the process of implementing a new electronic ERP system, Job Boss. This will allow employees to scan into and out of activities on the traveler (work instruction) as they complete all or part of the step, which will automatically link the weld wire to a welder and track which welding operations were conducted by the welder.

Westinghouse Non-Proprietary Class 3

AP1000®

Josh Skudlarick
Stone & Webster, Inc.
128 South Tryon St.
Charlotte, NC 28202

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Plant Vogtle Units 3 & 4
7827 River Road, Bldg. 120
Waynesboro, GA 30830
Office: +1 (803) 932-5857
Cell: +1 (724) 244-4906
hjelseje@westinghouse.com

Our Reference: SVP_SMP_000006

October 30, 2015

Subject: Engineering response to NRC query of SMCI on Examination of Partial Joint Penetration (PJP) Welds with Reinforcement

Attachment: DCP_DCP_007574: Feedback to Specialty Maintenance and Construction, Inc. (SMCI) regarding SPECIALTY MAINTENANCE AND CONSTRUCTION INC. RESPONSE TO THE U. S. NUCLEAR REGULATORY COMMISSION INSPECTION REPORT NO. 99901439/2015-201 AND NOTICE OF NONCONFORMANCE

Dear Mr. Skudlarick:

As requested in NRC letter, dated September 17, 2015, to Mr. Dan Grannan, SPECIALTY MAINTENANCE AND CONSTRUCTION INC. RESPONSE TO THE U.S. NUCLEAR REGULATORY COMMISSION INSPECTION REPORT NO. 99901439/2015-201 AND NOTICE OF NONCONFORMANCE, please find attached, as objective evidence in the form of a letter, Westinghouse's official position from its structural design engineering and welding engineering. Please see the attached for further detail.

Please provide this information to Mr. Dan Grannan for his use in responding to the Nuclear Regulatory Commission.

If you have any questions, please contact me at (803) 932-5857.

Sincerely,



Joel Hjelseth
U. S. AP1000 Modules Director

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cc: Scott Gray- Westinghouse
John Crenshaw - Westinghouse
Carl Churchman - Westinghouse
Paul Russ - Westinghouse
Gerald Couture - Westinghouse
Brian McIntyre - Westinghouse
Lee Woodcock - Westinghouse
JoAnne Hyde - Westinghouse
Tony Galore - Westinghouse
Mike Shaqo - Westinghouse
Patrick Young - Westinghouse
Mike C. Miller - Westinghouse
Keith Coogler - Westinghouse
Patrick Neuschwanger - Westinghouse
John Simmons - CB&I
Karin Stoner - CB&I
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USA

Joel Hjelseth
US AP1000 Modules Director
V.C. Summer AP1000 Project
Jenskinsville, SC 29065

Direct tel: 412.374.4625
Fax: 724-940-8523
e-mail: cooglekl@westinghouse.com

Our ref: DCP_DCP_007574
October 8, 2015

Subject: Feedback to Specialty Maintenance and Construction, Inc. (SMCI) regarding SPECIALTY MAINTENANCE AND CONSTRUCTION INC. RESPONSE TO THE U.S. NUCLEAR REGULATORY COMMISSION INSPECTION REPORT NO. 99901439/2015-201 AND NOTICE OF NONCONFORMANCE

Attachment: Nuclear Regulatory Commission letter to SMCI dated September 17, 2015

Dear Joel,

Please find Engineering's response to part a. of the attached Nuclear Regulatory Commission letter to Specialty Maintenance and Construction (SMCI).

As specified in Westinghouse AP1000[®] Structural Module General Notes APP-GW-S9-105, Section 6.12.6 and documented in RFI APP-GW-GF-850274, there is no requirement to perform a liquid penetrant or magnetic particle examination on the PJP weld prior to completing the fillet reinforcement when a partial joint penetration (PJP) weld with fillet weld reinforcement is depicted on design drawings. Given that there is no specific requirement in Section Q1.26.2 .2 of AISC N690-1994, the Engineering position is that the PJP portion of the weld and the fillet portion of the weld are designed as a system and may be inspected as a system. Performing the surface examination (10% MT or PT) after the reinforcing fillet is installed along with 100% visual examination (VT) meets the requirements in Q1.26.2 of AISC N690-1994.

This is consistent with AP1000 design and licensing bases.

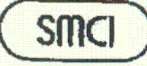
Please share as required. If you have any questions, please contact me at (412) 374-4625.

Sincerely,

A handwritten signature in black ink, appearing to read 'K.L. Coogler', followed by the date '10/8/15' written in a similar style.

K.L. Coogler (PE)
Manager, AP1000 Fabrication and Construction Response Team,
Structural and Electrical Engineering Dept.

cc: John Crenshaw – Westinghouse
Scott Gray – Westinghouse
Lee Woodcock – Westinghouse
Tony Galore – Westinghouse
Mike Shaqqo – Westinghouse
Gerald Couture – Westinghouse
Brian McIntyre – Westinghouse
Paul Russ – Westinghouse
Mike C. Miller – Westinghouse
Mark Urso – Westinghouse
Doug Trimble – Westinghouse
vogtleproject@westinghouse.com



SPECIALTY MAINTENANCE & CONSTRUCTION, INC.
MATERIAL RECEIVING INSPECTION REPORT

SUPPLIER: WELDSTAR COMPANY PO #: 33377 SMCI JOB 926S14 DATE: 1/21/14 DEDICATION PLAN #: N/A

MATERIAL SPECIFICATION (per PO): SPOOLS OF .045 DIA. E-71T-1M **AS 1/21/14**

ADDITIONAL PO INFORMATION: FLUX CORE WELD FILLER AWS A5.20L SAFETY RELATED WELD WIRE. ESN NDS70T12 045 E71T-1M/12MJH4, 045X*33LB SPOOL

LINE ITEM: 1
 QTY: 20

INVENTORY #.	HEAT #/ PRODUCT #	ACTUAL DIMENSIONS	ACC/ REJ	STG LOC	TEST CPN Y/N	COUPON SIZE	NCR# (if rejected)	Country of Origin
MY15709	95138	DUAL SHIELD II 70T-12H4 .045" V 33# AWS A5.20 Qty 3	ACC	A-51	N	N/A	N/A	USA

NOTES/SKETCH: N/A

ITEMS VERIFIED	YES	NO	INITIALS
SHIPPING DAMAGE		✓	AS
VISUAL INSPECTION	✓		AS
MATERIAL TYPE & GRADE	✓		AS
CERTIFICATE OF COMPLIANCE/CONFORMANCE	✓		AS
CMTR'S	✓		AS

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MAR 24 2014

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Mackson
QA Reviewed
and Approved
Drum 5-16-14

INSPECTION EQUIPMENT USED AND CALIBRATION INFO.

N/A <input type="checkbox"/> Tape	Serial #: N/A	Calibration due date: N/A	<input type="checkbox"/> T-Mic	N/A
N/A <input type="checkbox"/> Tape	Serial #: N/A	Calibration due date: N/A	<input type="checkbox"/> Thread Pitch Gauge	N/A
N/A <input type="checkbox"/> Calipers	Serial #: N/A	Calibration due date: N/A	<input type="checkbox"/>	N/A

PERFORMED BY: *Th 2 mit*

STAMP:

DATE: 1-21-14



OLD VALUES...NEW IDEAS

www.weldstar.com

CERTIFICATE OF COMPLIANCE / CONFORMANCE

ISSUED: January 20, 2014

**SOLD TO: SMCI
4015 Drane Field Rd.
Lakeland, FL 33811**

SHIP TO: Same

**CUSTOMER PO#: 33377
Nuclear Shipping #: N1021522**

**DESCRIPTION: ITEM #1: Ordered: 660 lbs Shipped: 660 lbs
Spooled Wire, .045" x 33 lb spools, ESAB, E71T-1M/12MJH4
Lot# 95138**

The attached CMTR(s), one copy per item, cover the material supplied against the above referenced purchase order number.

The above material will meet/has been verified to meet code requirements of ASME Section II, Part C, and Section III, 2013 Edition, No Addenda, NB2400 for Class 1 material, and is in compliance with the above referenced purchase order number. We certify that the material supplied has been handled in compliance with our identification and verification program.

All vendors on Weldstar's approved vendors list have been audited by Weldstar.

Weldstar's Quality Assurance Program Revision R, dated September 10, 2012 meets the requirements of ASME Section III, NCA-3800, 2013 Edition, No Addenda and the applicable parts of NQA-1 and 10 CFR Part 50 Appendix B.

The recording of false, fictitious, or fraudulent statements or entries may be punishable as a felony under Federal Statute. This material has not come in contact with Mercury while at Weldstar.

All items furnished under this Purchase Order/Subcontract are genuine (i.e., not counterfeit) and match the quality, test reports, markings and/or fitness for use required by the Purchase Order/Subcontract.

The provisions of NRC 10CFR Part 21 apply to this order.

 1/20/14

Josh Rogers Date
QUALITY ASSURANCE MANAGER

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POWER
MAR 24 2014
119**

**Mackson
QA Reviewed
and Approved
01/25-14-14**

**WELDSTAR COMPANYS
QUALITY SYSTEM CERTIFICATE
(MATERIALS) QSC 229
EXPIRATION DATE JAN. 5, 2015**

 1-21-14



Weldstar Aurora
1750 Mitchell Road, PO Box 1150
Aurora, IL 60505
Phone 630.859.3100
Fax 630.859.3199

Weldstar Logansport
1000 East Main Street
Logansport, IN 46947
Phone 574.722.1177
Fax 674.753.3113

Weldstar University Park
1100 Hamilton Avenue
University Park, IL 60484
Phone 708.534.8561
Fax 708.534.7819



CERTIFICATE OF ANALYSIS

DATE : 06/13/2012
PAGE : 1
2-52582-00-0-A

CERTIFIED MATERIALS TEST REPORT

CUSTOMER NAME: WELDSTAR COMPANY
1750 MITCHELL RD
AURORA
IL 60504

ORDER # : RMA 15556

CUSTOMERS ORDER NO: 905948 C/O 1
END USER LINE #: 2-52582-00-0-A

END USER :
END USER P.O # :
END USER ITEM #:

*ALSO MEETS THE CRITERIA OF AN E71T-1 CLASS
PRIOR TO 1995 ADDENDA WHEN USING 75/25 GAS.

CLASSIFICATION: E71T-1M1H4/T-12M1H4
DIAMETER & LENGTH: .045" X 33# SPL.
INSPECTION LEVEL:
LOT NO: 95138

HEAT/PKG :
WEIGHT: 16203 lb
GROSS WEIGHT:
WET MIX NO:
NUCLEAR NO:

TRADENAME: DUAL SHIELD II 70T12H4
CLASS:
ASME SFA 5.20, SEC. IX, PART C, SEC. III, SUBSEC
NB2400 FOR CLASS 1 MATERIAL, 2010 EDITION,
2011a ADDENDA, ASME SFA 5.01, CLASS T3, SCHEDULE K,
10 CFR 50, APPENDIX B, 10 CFR PART 21 APPLIES.

CHEMICAL ANALYSIS :

Carbon .04
Manganese .99
Silicon .31
Phosphorus .011
Sulphur .009
Chromium .05
Nickel .02
Molybdenum .01
Vanadium .02
Copper .04

This CMTR covers SMCJ
PO# 33377; Weldstar
Nuclear Shipping# N1021522

RADIOGRAPHY :

AS WELDED : Satisfactory
FLAT: Satisfactory
STRESS-RELIEVED: Satisfactory
FLAT: Satisfactory

WELDSTAR COMPANYS
QUALITY SYSTEM CERTIFICATE
(MATERIALS) QSC 229
EXPIRATION DATE JAN. 5, 2015

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POWER
MAR 2 4 2014

DIFFUSIBLE HYDROGEN :

METHOD : GC
AMPS : 225
VOLTS : 26
ESO : 3/4
IPH : 10

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MAXIMUM SINGLE VALUE ml/100 gr: 2.4 2.3 2.0 2.2
AVERAGE VALUE ml/100 gr: 2.2

TENSILE :

AS-WELDED STRESS-RELIEVED
CALCULATED YIELD(Psi) : 72825/ 63615/
CALCULATED TENSILE(Psi): 78405/ 76045/
% ELONGATION : 30.0/ 31.0/
% REDUCTION OF AREA : 73.1 76.1

Mackson
QA Reviewed
and Approved
Date 5-16-14

WELDING PARAMETERS :

FULL : 1
The ESAB Group, Inc.
1500 Karen Lane
Hanover, Pa 17331
www.esab.com
Fax: 1-800-444-8911
Phone: 1-800-ESAB-123

Signature 1-21-14 MSO

By: K. Walsch, Supervisor, Q.A. Services

WELDSTAR
QR
0-13-12



CERTIFICATE OF ANALYSIS

DATE : 06/13/2012
PAGE : 2
2-52582-00-0-A

SPLIT : 7
SHIELDING GAS USED : 75 Ar/25 CO2
AMPS : 230
VOLTS : 27.0
WELD POSITION : 1G - Flat
HEAT INPUT ACTUAL : 31.30 KJ/in
WFS : 380
TRAVEL SPEED : 11.9
POLARITY : DC+
PREHEAT : 200 F
INTERPASS : 325 F
ROOT OPENING : 1/2
HEAT TREAT TEMP : 1150 F
HEAT TREAT HOURS : 8
HEATING RATE/HOUR : 100 Deg.Max/Hr Above 600 Deg.
COOLING RATE/HOUR : 100 Deg.Max/Hr Above 600 Deg.
WELDING PARAMETERS :

FULL : 1
SPLIT : 7
SHIELDING GAS USED : 75 Ar/25 CO2
AMPS : 230
VOLTS : 27.0
WELD POSITION : 1G - Flat
HEAT INPUT ACTUAL : 34.06 KJ/in
WFS : 380
TRAVEL SPEED : 10.9
POLARITY : DC+
PREHEAT : 200 F
INTERPASS : 325 F
ROOT OPENING : 1/2
HEAT TREAT TEMP : 1150 F
HEAT TREAT HOURS : 8
HEATING RATE/HOUR : 100 Deg.Max/Hr Above 600 Deg.
COOLING RATE/HOUR : 100 Deg.Max/Hr Above 600 Deg.
IMPACTS :

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QA Reviewed
and Approved
Date 5/14/14

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MAR 24 2014
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Table with columns: AS-WELDED, TEMP (F), Ft-Lbs, LAT EXP, % SHEAR. Rows show data for various temperatures from 0 to -40 F.

The ESAB Group, Inc.
1500 Karen Lane
Hanover, Pa 17331
www.esab.com
Fax: 1-800-444-8911
Phone: 1-800-ESAB-123

By: K. Wilkerson
R. Wilkerson, Supervisor, Q.A. Services
Date: 1-21-14

WELDESTAR
JR
QA
6-15-12



CERTIFICATE OF ANALYSIS

DATE : 06/13/2012
PAGE : 3
2-52582-00-0-A

STRESS-RELIEVED	TEMP (F)	Ft-Lbs	LAT EXP	% SHEAR
	-40	87	65	60
	-40	78	58	60
IMPACTS :				
		Retest		
STRESS-RELIEVED	TEMP (F)	Ft-Lbs	LAT EXP	% SHEAR
	-20	97	67	60
	-20	94	71	60
	-20	101	65	60

TENSILE SPECIMEN .505
IMPACT SPECIMEN .394" X .394"
ELONGATION (2"), X

FILLET :
VERTICAL-UP : Satisfactory
OVERHEAD : Satisfactory
MATERIAL MANUFACTURED IN USA
COUNTRY OF ORIGIN: USA

Quality Systems Program Issue No. 10 Rev. 0 dated January 11, 2012
Quality Systems Certificate No. QSC-221 Expiration Date : September 8, 2014
The undersigned certifies and affirms that the contents of this report are correct and accurate and that all test results and operations performed by ESAB or its sub contractors are in compliance with the requirements of the material specification and the specific applicable material requirements of ASME Boiler and Pressure Vessel Code, Section III, including Division 1, Subsection NCB-3800.
This material is certified to be free of any mercury.

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MAR 24 2014

119

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and Approved
Orin 5-16-14

John Z... 1-21-14

The ESAB Group, Inc.
1500 Karen Lane
Hanover, Pa 17331
www.esab.com
Fax: 1-800-444-8911
Phone: 1-800-ESAB-123

By: *K. Wiltman*
K. Wiltman, Supervisor, Q.A. Services

RELEASER
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QA

G-13-12



SPECIALTY MAINTENANCE & CONSTRUCTION, INC.
MATERIAL RECEIVING INSPECTION REPORT

SUPPLIER: WELDSTAR COMPANY PO #: 33430 SMCJ JOB 918S13 DATE: 2-24-14 DEDICATION PLAN #: N/A

MATERIAL SPECIFICATION (per PO): .045 DIA. E71T-1M FLUX CORE
 ADDITIONAL PO INFORMATION: CORE WELD FILLER AWS A5.20, 33LB SPOOLS. CHARPY V NOTCH ENERGY LEVELS OF 20FLBS @ ZERO DEGREE F OR LOWER, NQA-1, 10CFR21, 10CFR50 APPLIES. ALSO SAFETY CLASS C (ANS SAFETY CLASS 3)

LINE ITEM:	QTY:	INVENTORY #	HEAT # / PRODUCT #	ACTUAL DIMENSIONS	ACC / REJ	STG LOC	TEST CPN Y/N	COUPON SIZE	NCR# (if rejected)	Country of Origin
1	891	MI15765	100295	.045 DIA. E71T-1M FLUX CORE QTY 21	ACC	REF	N	N/A	N/A	U.S.A.
<i>N/A</i>										

NOTES/SKETCH: *N/A*

ITEMS VERIFIED	YES	NO	INITIALS
SHIPPING DAMAGE		✓	<i>MS</i>
VISUAL INSPECTION	✓		<i>MS</i>
MATERIAL TYPE & GRADE	✓		<i>MS</i>
CERTIFICATE OF COMPLIANCE/CONFORMANCE	✓		<i>MS</i>
CMTR'S	✓		<i>MS</i>

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POWER**

FEB 28 2014

059

*Mackson
QA Reviewed
and Approved
3-5-14
OK 2-26-14*

INSPECTION EQUIPMENT USED AND CALIBRATION INFO.

<i>N/A</i> <input type="checkbox"/> Tape	Serial #:	Calibration due date:	<i>N/A</i> <input type="checkbox"/> T-Mic
<i>N/A</i> <input type="checkbox"/> Tape	Serial #:	Calibration due date:	<i>N/A</i> <input type="checkbox"/> Thread Pitch Gauge
<i>N/A</i> <input type="checkbox"/> Calipers	Serial #:	Calibration due date:	<i>N/A</i> <input type="checkbox"/>

PERFORMED BY: *[Signature]* STAMP: *[Stamp]* DATE: 2/24/14



CERTIFICATE OF ANALYSIS

DATE : 12/20/2013
PAGE : 1
2-54846-00-0-A

CERTIFIED MATERIALS TEST REPORT

CUSTOMER NAME: WELDSTAR COMPANY
1750 MITCHELL RD
AURORA
IL 60504
USA

ORDER # : 537952

CUSTOMERS ORDER NO: 906446
END USER LINE #:
TEST NO : 2-54846-00-0-A
ALSO MEETS THE CRITERIA OF AN E71T-1 CLASS
PRIOR TO 1995 ADDENDA WHEN USING 75/25 GAS.
CLASSIFICATION: E71T-1M1H4/T-12M1H4
DIAMETER & LENGTH: .045" X 33# SPL.
INSPECTION LEVEL:
LOT NO: 100285
TRADENAME: DUAL SHIELD II 70T12H4
CLASS:

END USER :
END USER P.O # :
END USER ITEM #:

HEAT/PKG :
WEIGHT: 15411 Lb
GROSS WEIGHT:
WET MIX NO:
NUCLEAR NO:

ASME SFA 5.20, SEC.II, PART C, SEC.III, SUBSEC
NB2400 FOR CLASS 1 MATERIAL, 2010 EDITION,
2011a ADDENDA, SFA 5.01, LOT CLASS T3, SCHEDULE K,
10 CFR 50, APPENDIX B AND 10 CFR PART 21 APPLY.

CHEMICAL ANALYSIS :

Carbon	.05
Manganese	1.13
Silicon	.36
Phosphorus	.013
Sulphur	.008
Chromium	.06
Nickel	.02
Molybdenum	.01
Vanadium	.02
Copper	.04

This CMTR covers SMC1
PO# 33430; Weldstar
Nuclear Shipping# N1022976

WELDSTAR COMPANYS
QUALITY SYSTEM CERTIFICATE
(MATERIALS) QSC 229
EXPIRATION DATE JAN. 5, 2015

RADIOGRAPHY :

AS WELDED : Satisfactory
FLAT: Satisfactory
STRESS-RELIEVED: Satisfactory
FLAT: Satisfactory

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DIFFUSIBLE HYDROGEN :

METHOD :	GC				
AMPS :	245				
VOLTS :	26				
ESO :	3/4				
IPM :	10				
MAXIMUM SINGLE VALUE ml/100 gr:	2.8	2.6	2.8	2.5	
AVERAGE VALUE ml/100 gr:	2.7				
Atmospheric Temperature:	69 Deg.				
Relative Humidity:	10%				

Mackson
QA Reviewed
and Approved
3-5-14

Weldstar
QA
12-27-13

The ESAB Group, Inc.
1500 Karen Lane
Hanover, Pa 17331
www.esab.com
Fax: 1-800-444-8911
Phone: 1-800-ESAB-123

By: K. Wildasin
K. Wildasin, Supervisor, Q.A. Services



CERTIFICATE OF ANALYSIS

DATE : 12/20/2013
PAGE : 2
2-54846-00-0-A

TENSILE :

	AS-WELDED	STRESS-RELIEVED
CALCULATED YIELD(Psi) :	74490	68338
CALCULATED TENSILE(Psi):	83146	80985
% ELONGATION :	27.0	29.0
% REDUCTION OF AREA :	73.1	72.6

WELDING PARAMETERS :

FULL : 1
 SPLIT : 7
 SHIELDING GAS USED : 75 Ar/25 CO2
 AMPS : 240
 VOLTS : 27
 WELD POSITION : 1G - Flat
 HEAT INPUT ACTUAL : 33.28 KJ/in
 WFS : 382
 TRAVEL SPEED : 11.68 IPM
 POLARITY : DC+
 PREHEAT : 250 F
 INTERPASS : 300 F
 ROOT OPENING : 1/2"
 HEAT TREAT TEMP : 1150 F
 HEAT TREAT HOURS : 8
 HEATING RATE/HOUR : 100 F
 COOLING RATE/HOUR : 100 F

IMPACTS :

AS-WELDED	TEMP (F)	Ft-Lbs	LAT EXP	% SHEAR
	0	137	75	80
	0	137	75	80
	0	132	85	80
	-20	135	68	80
	-20	135	86	80
	-20	132	77	80
	-40	108	67	80
	-40	115	71	80
	-40	119	76	80
STRESS-RELIEVED	TEMP (F)	Ft-Lbs	LAT EXP	% SHEAR
	0	125	75	80
	0	124	77	80
	0	121	77	80
	-20	107	69	80
	-20	106	73	80
	-20	110	73	70
	-40	105	77	80
	-40	106	75	80
	-40	98	67	70

Mackson
 QA Reviewed and Approved
DM 3-5-14
 3-5-14

WELDING PROCESS: FCAW
 TENSILE SPECIMEN .505
 IMPACT SPECIMEN .394" X .394"
 ELONGATION (2"), %

FILLET :
 VERTICAL-UP : Satisfactory
 OVERHEAD : Satisfactory

5-4 2/24/14
 WELDSTAR
 12-27-13

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 FEB 26 2014
 059

The ESAB Group, Inc.
 1500 Karen Lane
 Hanover, Pa 17331
 www.esab.com
 Fax: 1-800-444-8911
 Phone: 1-800-ESAB-123

By: *K. Wildasin*
 K. Wildasin, Supervisor, Q.A. Services



CERTIFICATE OF ANALYSIS

DATE : 12/20/2013
PAGE : 3
2-54846-00-0-A

MADE IN USA
COUNTRY OF ORIGIN: USA

Quality Systems Program Issue No. 10 Rev. 1 dated August 7, 2012

Quality Systems Certificate No. QSC-221 Expiration Date : September 8, 2014

The undersigned certifies and affirms that the contents of this report are correct and accurate and that all test results and operations performed by ESAB or its sub contractors are in compliance with the requirements of the material specification and the specific applicable material requirements of ASME Boiler and Pressure Vessel Code, Section III, including Division I, Subsection NCA-3800. This material is certified to be free of any mercury.

Mackson
QA Reviewed *QAM*
and Approved *3-5-14*
Dilma 2-26-14
3-5-14

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FEB 26 2014

059

[Signature]
2/24/14
MS
#18

WILDASIN
12-27-13

The ESAB Group, Inc.
1500 Karen Lane
Hanover, Pa 17331
www.esab.com
Fax: 1-800-444-8911
Phone: 1-800-ESAB-123

By: *K. Wildasin*
K. Wildasin, Supervisor, Q.A. Services

MI 15765



DUAL SHIELD II 70T-12H4

Part Number	Diameter (in.)	Weight (lbs)
245016290	.045 1.2 mm	33 15 kg

UPC 
6 62383 05849 4

Lot(10) 100285



AWS A5.20; E71T-1M-JH4
AWS A5.20; E71T-12M-JH4
ASME BFA 5.20
L.R.- 4Y40S(H10)
D.N.V.- IV YMS(H5)
CERTIFIED by C.W.B. to CSA W48
CWB Class; E481T-12MJ-H4
G.L.- 4YH10S, ABS.-3SA,3YSA(H5)
PKG CODE 331L3125835

21

See hazard information on other side(s)
a información sobre los riesgos en los laterales.
ir l'information de risque au verso.

WARNING: ELECTRIC SHOCK can kill. ARC RAYS can injure eyes.
WELDING FUMES are hazardous to your health. Avoid breathing fumes. Use
adequate ventilation. Prolonged inhalation of nickel and chromium compounds above
safe exposure limits can cause cancer. Overexposure to manganese and manganese
compounds above safe exposure limits can cause irreversible damage to the central
nervous system, including the brain. See additional hazard information on package
and Safety Data Sheet available through the distributor or manufacturer. Also refer
to AWS ANSI Z49.1. WARNING: This product contains or produces a chemical
known to the State of California to cause cancer and birth defects (or other
reproductive harm). (California Health & Safety Code 25249.5 et seq.)

Esab Group Inc. Made in Hanover, PA USA www.Esab.com

CB&I
POWER

FEB 26 2014

059

John Mackson
2/24/14
Mackson
QA Reviewed 3-5-14
and Approved
John Mackson
3-5-14

NSP
18

TRAINING FORM

INSTRUCTOR: Russell Stone & Chris Gates

SUBJECT: Weld Wire Issuance and Control in accordance with QP 9.0, Weld Wire Documentation in accordance with QP-WI-14.3, General Weld Wire Best Practices

DATE: Oct 16, 2015

Training Duration: 30 min

ATTENDEES:

	(Print Name)	(Sign Name)
1	Roger Henderson	
2	Kevin Marshall	
3	Anthony Mahon	
4	Juan S. Garcia	
5	Daniel Garcia	
6	F. Darné	
7	Arik Novak	
8	Brandon Kennedy	
9	Austin Jenkins	
10	Henry Fuentes	
11	Jorge Pabon Meza	
12	ROD ARIENTO	
13	Shane Holland	
14	Jose Vachon	
15	Nick Holtgren	
16	Dave Noble	
17	Chris Kaufman	
18		
19		
20		

Notes: The Manuals and or Procedures were reviewed with the above attendees and the Expectations of the Attendees are fully understood.

TRAINING FORM

INSTRUCTOR: Russell Stone & Chris Gates

SUBJECT: Weld Wire Issuance and Control in accordance with QP 9.0, Weld Wire Documentation in accordance with QP-WI-14.3, General Weld Wire Best Practices

DATE: 10/16/15

Training Duration: 30 min

ATTENDEES:

(Print Name)	(Sign Name)
1 Whitfield John	
2 MICHAEL TROUSE	
3 Zach Rini	
4 Kowal, Anton	
5 Trehy Johnson	
6 James Creacy	
7 Fabrique Virgile	
8 LEE ANN ZIMMER	
9 Jose MORALES	
10	
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Notes: The Manuals and or Procedures were reviewed with the above attendees and the Expectations of the Attendees are fully understood.

TRAINING FORM

INSTRUCTOR: Russell Stone & Chris Gates

SUBJECT: Weld Wire Issuance and Control in accordance with QP 9.0, Weld Wire Documentation in accordance with QP-WI-14.3, General Weld Wire Best Practices

DATE: 10/16/15

Training Duration: 30 min

ATTENDEES:

(Print Name)	(Sign Name)
1 Mark Miller	<i>Mark Miller</i>
2 Nate Pelcompo	<i>Nate Pelcompo</i>
3 Bryan Ford	<i>Bryan Ford</i>
4 Bobby Morgan	<i>Bobby Morgan</i>
5 Jaylo Aristov	<i>Jaylo Aristov</i>
6 Leonel Maldonado	<i>Leonel Maldonado</i>
7 Ezequiel Miranda R.	<i>Ezequiel Miranda R.</i>
8 Joe McCord	<i>Joe McCord</i>
9 Patrick Whalen	<i>Patrick Whalen</i>
10 Chris Williams	<i>Chris Williams</i>
11 Joseph N. Perland	<i>Joseph N. Perland</i>
12 Alice Pimentin	<i>Alice Pimentin</i>
13 Chris Warrlock	<i>Chris Warrlock</i>
14 Nelson Governard	<i>Nelson Governard</i>
15	
16	
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Notes: The Manuals and or Procedures were reviewed with the above attendees and the Expectations of the Attendees are fully understood.

TRAINING FORM

INSTRUCTOR: Russell Stone & Chris Gates

SUBJECT: Weld Wire Issuance and Control in accordance with QP 9.0, Weld Wire Documentation in accordance with QP-WI-14.3, General Weld Wire Best Practices

DATE: 10/16/15

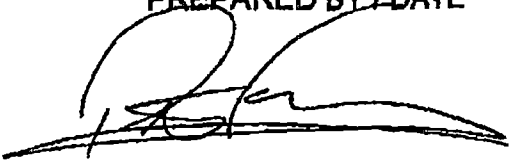
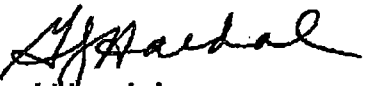

Training Duration: 30 min

ATTENDEES:

	(Print Name)	(Sign Name)
1	Jared Hutchison	<i>[Signature]</i>
2	Anthony OSagie	<i>[Signature]</i>
3	Anthony Saper	<i>[Signature]</i>
4	Marc Poive	<i>[Signature]</i>
5	Andy Dyer	<i>[Signature]</i>
6	Jason TRAN	<i>[Signature]</i>
7	Ryan Hite	<i>[Signature]</i>
8	Richard Hudson	Richard Hudson
9	Justin Lynn	<i>[Signature]</i>
10	Adam Lovessque	<i>[Signature]</i>
11	Tim Howard	Tim Howard
12	Viz Salsy	<i>[Signature]</i>
13	Ray Cline	Ray Cline
14	Sid Stocumb	Sid Stocumb
15	Steven ...	<i>[Signature]</i>
16		
17		
18		N A
19		
20		

Notes: The Manuals and or Procedures were reviewed with the above attendees and the Expectations of the Attendees are fully understood.

UNCONTROLLED IF PRINTED

DELIVERING MORE THAN METAL	SMCI DIVISION PROCEDURE	QP-9.0 Rev: 8
Quality Fabrication & Machining Services SUBJECT: Weld Filler Metal And Consumables Control	PREPARED BY / DATE  Peter Furman 7/8/15	
APPROVED BY / DATE  Gamal Handal 7/8/15 Engineering Manager Date  Dan Grannan 7/8/15 Director Quality Date		

Effective Date	7/13/15
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UNCONTROLLED IF PRINTED

UNCONTROLLED IF PRINTED

Weld Filler Metal And Consumables Control	QP-9.0 Rev. 8 Page 2 of 13
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Revision Summary

Previous Revision Numbers	Date Approved
0	4/22/13
1	7/30/13
2	8/16/13
3	9/10/13
4	6/16/14
5	10/3/14
6	3/13/15
7	3/20/15

Change	Reason for Change
Reformatted procedure to match approved format	Editorial Correction.
Step 4.1 – Added Leadman/Foreman to responsibility section.	Described responsibilities for this position.
Step 5.3.7 – Deleted Heat and Lot # and replaced with N # or MI #.	N # and MI # can be used to track material. Satisfies CAR 2015-129 CA# 1.
Steps 5.4.1, 5.4.2, 5.4.3, and 5.5.3 – Deleted Heat and/or Lot# and replaced with N # and MI #.	N # and MI # can be used to track material. Satisfies CAR 2015-129 CA# 1.
Section 6 – Updated instructions for handling documents.	Correct direction to referenced document and add verbiage about minimum retention time for Weld Inventory Log and Weld Consumable Issuance Log. Satisfies CAR 2015-324 CA# 1

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Weld Filler Metal And Consumables Control	QP-9.0 Rev. 8 Page 3 of 13
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Weld Filler Metal And Consumables Control	QP-9.0 Rev. 8 Page 4 of 13
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1. PURPOSE

- 1.1 This procedure defines the responsibilities and methods necessary to maintain positive control over weld filler metal as required in Section 9 of the Quality Assurance Manual.

2. SCOPE

- 2.1 This procedure provides the requirements for controlling weld filler metals from receipt inspection through consumption in the welding process.

3. TERMS, DEFINITIONS, ABBREVIATIONS, AND ACRONYMS

- 3.1 FCAW – Flux Core Arc Welding
- 3.2 GMAW – Gas Metal Arc Welding
- 3.3 GTAW – Gas Tungsten Arc Welding
- 3.4 SAW – Submerged Arc Welding
- 3.5 Weld Filler Metal – Consumable electrode or filler used to form a weld pass
- 3.6 Weld Filler Metal Control Box – (Hereafter referred to as Control Box). A temperature and humidity monitored storage container, in accordance with NQA-1 – 1994, Level B storage, used for storing weld filler metal to provide protection from detrimental environmental elements and to provide a controlled location that weld filler metal is distributed from for work on the floor.

4. RESPONSIBILITIES

- 4.1 Leadman or Foreman - Is responsible for withdrawing weld filler metal for non-Nuclear, non-ASME Section III, or non-ASME Section VIII jobs from the Control Boxes for their jobs.
- 4.2 Project Manager (PM) – The PM shall be responsible for generating procurement documents for all weld filler metals that will be used in their job and shall supply the Welding Engineer with all necessary specifications and code information pertaining to welding on their job.
- 4.3 Quality Manager (QM) – The QM shall be responsible for assigning keys to personnel for the locked Control Boxes.
- 4.4 Quality Personnel – The Quality Personnel, hereafter referred to as Quality, shall be responsible for signing weld filler metal in and out of the Control Boxes for Nuclear, ASME Section III, or ASME Section VIII work.
- 4.5 Receiving Inspector – The Receiving Inspector shall be responsible for receiving in the weld filler wire in accordance with QP-7.1, Receiving Inspections.
- 4.6 Welding Engineer (WE) – The WE shall have control over all weld filler metal. The WE shall be responsible for reviewing weld filler metal procurement documents to ensure that they meet the requirements of the job.

Weld Filler Metal And Consumables Control	QP-9.0 Rev. 8 Page 5 of 13
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5. MAIN BODY**5.1 Procurement**

- 5.1.1 Generate the procurement documents for the weld filler metal associated with their job in accordance with QP-4.0, Control of Purchasing. [Project Manager]

5.2 Receiving

- 5.2.1 Receiving Inspector shall inspect weld filler metal in accordance with QP-7.1, Receiving Inspections. [Receipt Inspector]
- 5.2.2 Weld filler metal, prior to or while being checked in, shall be held in the shipping and receiving building or in a location controlled by the Receiving Inspector.
- 5.2.3 IF the shipment is acceptable, THEN notify Quality for Nuclear or ASME related work OR the leadman/foreman for non-Nuclear or non-ASME related work individuals listed in the following steps.
- a. IF the weld filler metal had been ordered for a non-Nuclear, non-ASME Section III, OR non-ASME Section VIII job, THEN the Receipt Inspector shall alert the foreman or leadman on the job to have the wire placed into the Control Box in that area.
- b. IF the weld filler metal had been ordered for a Nuclear, ASME Section III, OR ASME Section VIII job, THEN the Receipt Inspector shall alert Quality to have the wire placed into the appropriate Control Box in the nuclear job area.
- 5.2.4 IF the shipment is not acceptable, THEN it shall be dispositioned in accordance with QP-7.1, Receiving Inspections

5.3 Storage Requirements

- 5.3.1 All weld filler metal shall be stored in Control Boxes. [Quality]
- a. Setup Control Boxes in accordance with NQA-1 – 1994, Level B storage requirements.
- 5.3.2 Place weld filler metal, in its original packaging, in the Control Box.
- a. Do NOT open the original packaging until the weld filler metal is released for use on a job.
- 5.3.3 Control Boxes shall be kept clean and orderly.
- a. Shelving may be utilized to separate different lots/heats/materials of weld wire

Weld Filler Metal And Consumables Control	QP-9.0 Rev. 8 Page 6 of 13
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- 5.3.4 Control Boxes used for Nuclear, ASME Section III or ASME Section VII jobs shall
- Be locked at all times.
 - Show a list or the location of a list of people who are authorized to access the Control Boxes
 - An identifier on the Control Box indicating carbon weld filler metal or stainless weld filler metal storage.
 - Be monitored by the Quality department in accordance with Step 5.3.6a
- 5.3.5 The Quality Manager shall issue keys to the Control Boxes to authorized personnel only. (Refer to Step 5.3.4).
- 5.3.6 Control Boxes temperature and humidity monitored.
- a. Check and record the temperature of Control Boxes used for Nuclear, ASME Section III or ASME Section VIII on QP-9.0-F-1, Wire Cabinet Temp/Humidity Log on a daily basis.
 - 1) Record the temperature on QP-9.0-F-1
 - 2) IF the temperature is less than 40°F OR greater than 140°F, THEN contact the Weld Engineer (WE) for resolution.
 - b. Check and record the humidity of Control Boxes used for Nuclear, ASME Section III or ASME Section VIII on QP-9.0-F-1, Wire Cabinet Temp/Humidity Log on a daily basis.
 - 1) Record the humidity reading on QP-9.0-F-1.
- 5.3.7 Quality will record weld filler metal in the Control Box on QP-9.0-F-2, Wire Inventory Log. This log shall be checked and updated every week by Quality to ensure an accurate count of the amount of weld filler metal available for each job. The Inventory Log shall have places to record the type, amount, diameter, Heat/Lot #, N # / MI #, and Job # (if assigned) and date and initials of the person completing the inventory.
- 5.3.8 SAW flux used shall be dry and free of contamination from dirt, mill scale or other foreign material.
- a. IF the seal on the SAW flux bag has been broken, THEN the SAW flux shall be stored in the Control Boxes.
 - b. WHEN the seal has been broken on the SAW flux bag, THEN ensure the bag is marked with the job number it is currently being used on AND the date it was opened.

Weld Filler Metal And Consumables Control

QP-9.0

Rev. 8

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- c. Discard SAW flux if any of the following conditions exist:
- The flux is exposed to moisture
 - Exceeding exposure limits in accordance with the manufacturer's recommendations or project specifications.
- d. IF the flux bag has been previously opened, THEN the top one inch of flux shall be discarded and not used

5.4 Marking of Weld Filler Metal

- 5.4.1 Weld filler metal ordered for Nuclear, ASME Section II, or ASME Section VIII work shall have the N # and Job # on each container.
- 5.4.2 Weld filler metal ordered for Non-Nuclear or non-ASME Section III or non-ASME Section VIII work shall have the MI# and customer on each container.
- a. WHEN the weld filler metal has been assigned a specific job, THEN the Job # shall be added to the container.
- 5.4.3 Weld filler metal that is not marked with the Heat or Lot # from the supplier will be identified by one of the following methods:
- For GTAW – The N# or MI# shall be written on tags, stamped, or embossed at both ends of the wire.
 - For GMAW/FCAW/SAW – The N# or MI# shall be written on a tag attached to the spool
 - A unique marking (numbers or letters) on the spool or wire ends that is identified on QP-9.0-F-3, Wire Consumable Issuance Log.
- 5.4.4 IF the traceability of the weld filler metal is lost (e.g., the markings are illegible or the tags have been lost), THEN Quality shall inform the WE or QM of any weld filler metal traceability issues.

Weld Filler Metal And Consumables Control	QP-9.0 Rev. 8 Page 8 of 13
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5.5 Withdrawal and Issuance of Weld Filler Metal**NOTE:**

- The Traveler identifies the WPSs that are to be used for a job.
- The WPS identifies the type of weld filler metal to be used
- To receive weld filler metal the welder must have a traveler for the job they are working on.
- SMCi does not issue coated electrodes for any jobs.

- 5.5.1 The WE is responsible for verifying that all welders put on a job are qualified for the process they are assigned to perform.
- a. The Welder Performance Qualification Report will be hung in the Control Boxes and updated by the WE as new qualifications are added.

NOTE:

The welder shall not be in possession of more than one weld filler metal classification for the same welding process at one time.

- 5.5.2 IF weld filler metal is needed for a Nuclear, ASME Section III or ASME Section VIII job, THEN the welder shall inform Quality of the need for weld filler metal.
- a. Quality will review the Traveler with the welder to determine the correct weld filler metal that is needed for the job.
- b. Quality shall verify that the welder is listed on the Welder Performance Qualification Report as qualified to make that weld.
- 5.5.3 Quality shall record the date, welder's name, welder's stamp, N # or MI #, Job #, the time the weld filler metal is released and the amount issued on QP-9.0-F-3, Wire Consumable Issuance Log when checking out weld filler metal.
- 5.5.4 IF issuing weld filler metal for GTAW process, THEN the weld filler metal shall be marked in accordance with Step 5.4.3 and given to the welder in a wire tube.
- 5.5.5 IF issuing spools of weld filler metal, THEN the spool shall be marked in accordance with Step 5.4.3.
- 5.5.6 Flux is issued in conjunction with the weld filler metal with which it is qualified.
- 5.5.7 The leadman or foreman for non-Nuclear, non-ASME Section III or non-ASME Section VIII jobs is responsible for withdrawing weld filler metal from the Control Boxes for their jobs.

Weld Filler Metal And Consumables Control	QP-9.0 Rev. 8 Page 9 of 13
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5.6 Usage in Production

- 5.6.1 The welder shall control their weld filler metal to prevent contamination or misuse by other welders.
- a. Welders shall not exchange weld filler metal.
 - b. Welders shall only weld with the weld filler metal issued to them.
- 5.6.2 GTAW weld filler metal shall be kept in wire tubes when not in use to keep clean and segregated from detrimental materials.
- 5.6.3 Spooled weld filler metal shall be covered when not in use for an extended period of time to keep it clean.
- 5.6.4 The welder shall
- a. Record the N # or MI # of the weld filler metal on the Traveler
 - b. Sign for any welds indicated on the Traveler that were made.

5.7 Return of Weld Filler Metal

- 5.7.1 Weld filler metal not consumed shall be returned to the appropriate weld filler metal Control Box by Quality.
- 5.7.2 WHEN there is no longer a need for the weld filler metal, THEN unused weld filler metal is checked prior to storage at the end of each shift, or earlier.

NOTE:

Weld filler metal is not be discarded into regular trash containers.

- 5.7.3 Used or damaged weld filler metal (i.e. GTAW rod ends or spooled cut lengths) shall be discarded into containers marked to indicate it as controlled weld filler metal.
- 5.7.4 Unused flux issued in conjunction with the weld filler metal shall be discarded
- 5.7.5 Quality shall complete QP-9.0-F-3, Wire Consumable Issuance Log by indicating unused weld filler metal was returned or that all the weld filler metal was consumed during that shift.

6. DOCUMENTATION AND RECORDS

- 6.1 Weld Inventory Log and the Weld Consumable Issuance Log that are fully filled out shall be kept for a minimum of 15 days for inventory purposes.
- 6.2 The Traveler is routed in accordance with QP-WI-6.3, Traveler Issuance and Control and QP-WI-17.3, Traveler Closeout and QA Record Archiving

UNCONTROLLED IF PRINTED

Weld Filler Metal And Consumables Control	QP-9.0 Rev. 8 Page 10 of 13
--	-----------------------------------

7. COMMITMENTS & REQUIREMENTS

7.1 None

8. REFERENCES

8.1 Use References

8.1.1 QP-4.0, Control of Purchasing

8.1.2 QP-7.1, Receiving Inspections

8.1.3 QP-WI-6.3, Traveler Issuance and Control

8.1.4 QP-WI-17.3, Traveler Closeout and QA Record Archiving

8.2 Source References

8.2.1 NQA-1 – 1994

UNCONTROLLED IF PRINTED

REFERENCE ONLY

Exhibit A, Form TF-001 – Training Form

TRAINING FORM

INSTRUCTOR: Self

SUBJECT:

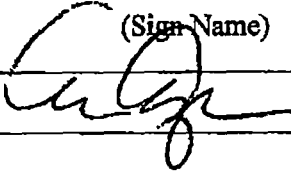
- QP-2.2 Quality Assurance Auditor & Lead Auditor Training & Certification REV 3
- QP-7.3, Commercial Grade Dedication for Internal Use, REV 7
- QP-7.1, Receiving Inspections, REV 5
- QP-7.6, Commercial Grade Dedication by Suppliers, REV 2
- QP-5.3, Traveler Development Rev. 4
- QP-9.0, Weld Filler Metal & Consumables Control, Rev 8
- QP-WI-14.3 Traveler Usage and Completion, Rev 0
- QP-WI-17.3, Traveler Closeout and QA Record Archiving, Rev 0
- QP-WI-6.3, Traveler Issuance and Control, Rev 0
- QP-WI-CUT01, Laser, WaterJet & Plasma Cutting, Rev. 5

ATTENDEES:

DATE: 7/13/15

(Print Name)

(Sign Name)

1 Ana Azucena	

Notes: The information noted above and expectations were reviewed with the above personnel in attendance.

Instructor Signature:



Date:

7/17/15


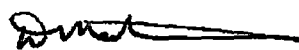




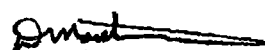
REFERENCE ONLY

REFERENCE ONLY

SMCI Procedure Training/Review

WORK GROUP: SMCI Mgt

NAME: Dave Masterson

Procedure	Revision	Signature *	Date
QP-9.0, WELD FILLER METAL & CONSUMABLES CONTROL	Rev 8		7-20-15
QP-5.3, TRAVELER DEVELOPMENT	Rev 4		7-20-15
QP-WI-CUT01, LASER, WATER JET & PLASMA CUTTING	Rev 5		7-20-15
QP-WI-CUT02, LASER, WATER JET & PLASMA CUTTING EMBEDMENT	Rev 1		7-20-15
QP-WI-6.3, TRAVELER ISSUANCE AND CONTROL	Rev 0		7-20-15
QP-WI-14.3, TRAVELER USAGE AND COMPLETION	Rev 0		7-20-15
QP-WI-17.3, TRAVELER CLOSEOUT AND QA RECORD ARCHIVING	Rev 0		7-20-15
N/A			

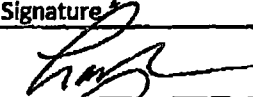
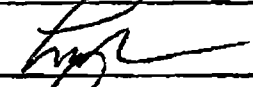

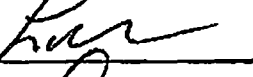

REFERENCE ONLY

REFERENCE ONLY

SMCI Procedure Training/Review

WORK GROUP: SMCI Management

NAME Lance Penn

Procedure	Revision	Signature	Date
QP-WI-CUT01, LASER, WATER JET & PLASMA CUTTING	5		8/5/15
QP-9.0, WELD FILLER METAL & CONSUMABLES CONTROL	8		8/5/15
QP-7.6, COMMERCIAL GRADE DEDICATION BY SUPPLIERS	2		8/5/15
QP-7.3, COMMERCIAL GRADE DEDICATION FOR INTERNAL USE	7		8/5/15
QP-2.2, QUALITY ASSURANCE AUDITOR & LEAD AUDITOR TRAINING & CERTIFICATION	3		8/5/15

REFERENCE ONLY

REFERENCE ONLY

Exhibit A, Form TF-001 - Training Form

TRAINING FORM

DANIEL GRANNAN
INSTRUCTOR: Joanne Romay *7.10.15*

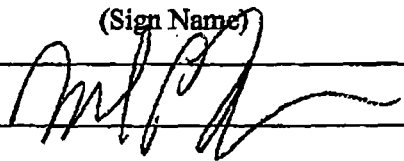
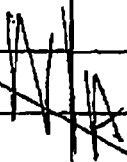
SUBJECT:
~~QP-3.1 Receiving Inspections Rev 5~~ *7.10.15* ~~9.0. WELD FILM METAL & CONSUMABLE CONTROLS REV 8~~
QP-5.3 Traveler Development Rev 4,
QP-WI-6.3 Traveler Issuance Rev 0,
QP-WI-14.3 Traveler Usage & Completion,
QP-WI-17.3 Traveler Closeout & QA Records Archiving Rev 0 DURATION:

ATTENDEES: Dan Grannan

DATE: 7/10/15

(Print Name)

(Sign Name)

1 Dan Grannan	
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Notes: The information noted above and expectations were reviewed with the above personnel in attendance.

Instructor Signature: 

Date: 7.10.15

REFERENCE ONLY

REFERENCE ONLY
SMCI Procedure Training/Review

WORK GROUP: SMCI MGMT
 NAME: Mike Anderson

Procedure	Revision	Signature *	Date
QP-2.2	3	<i>Mike Anderson</i>	9/14/15
* QP-5.3	4	<i>Mike Anderson</i>	9/14/15
QP-7.1	5	<i>Mike Anderson</i>	9/14/15
QP-7.3	7	<i>Mike Anderson</i>	9/14/15
QP-7.6	2	<i>Mike Anderson</i>	9/14/15
QP-9.0	8	<i>Mike Anderson</i>	9/14/15
* QP-16.1	7	<i>Mike Anderson</i>	9/14/15
* QP-WI-3.2	3	<i>Mike Anderson</i>	9/14/15
QP-WI-6.3	0	<i>Mike Anderson</i>	9/14/15
QP-WI-14.3	0	<i>Mike Anderson</i>	9/14/15
QP-WI-17.3	0	<i>Mike Anderson</i>	9/14/15

REFERENCE ONLY

REFERENCE ONLY

SMCI Procedure Training/Review

WORK GROUP: SMCI Mgmt/QA
 NAME: Russell Stone

Procedure	Revision	Signature*	Date
QP-2.2	3	<i>[Signature]</i>	8/31/15
QP-5.3	4	<i>[Signature]</i>	↓
QP-7.1	5	<i>[Signature]</i>	
QP-7.3	7	<i>[Signature]</i>	
QP-7.6	2	<i>[Signature]</i>	
QP-9.0	8	<i>[Signature]</i>	
QP-16.1	7	<i>[Signature]</i>	
QP-WI-3.2	3	<i>[Signature]</i>	
QP-WI-6.3	0	<i>[Signature]</i>	
QP-WI-14.3	0	<i>[Signature]</i>	
QP-WI-17.3	0	<i>[Signature]</i>	

REFERENCE ONLY

*By signing this block I acknowledge that I have read and understand the intent of the procedure
 PTF-001 Rev 0 7/13/2015

REFERENCE ONLY

Exhibit A, Form TF-001 -- Training Form

TRAINING FORM

INSTRUCTOR: ~~Joanne Romar~~ ^{Tim Monard}

SUBJECT:

~~QP-7.1 Receiving Inspections Rev 5,~~ ^{QP-9.0 Weld Filler Metal R 8}
QP-5.3 Traveler Development Rev 4,
QP-WI-6.3 Traveler Issuance Rev 0,
QP-WI-14.3 Traveler Usage & Completion,
QP-WI-17.3 Traveler Closeout & QA Records Archiving Rev 0 DURATION:

ATTENDEES: ~~Document Control~~ ^{8/10/15}
^{Production management}
(Print Name)

DATE: 7/10/15

(Sign Name)

1	LAKK MULVANI	Jack Mulvan
2	Art ZIMMERMAN	Art
3	Mutt Parbs	[Signature]
4	Sam Jordan	Sam
5	Mark Gresham	[Signature]
6		
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Notes: The information noted above and expectations were reviewed with the above personnel in attendance.

Instructor Signature: [Signature]

Date: 7/14/15

REFERENCE ONLY

REFERENCE ONLY
SMCI Procedure Training/Review

WORK GROUP: SMCI Mgmt
 NAME: Thomas Jarosek

Procedure	Revision	Signature *	Date
QP 2.2	3	T Jarosek	9/11/15
QP-5.3	4	T Jarosek	9/11/15
QP-7.1	5	T Jarosek	9/14/15
QP-7.3	7	T Jarosek	9/14/15
QP-7.6	2	T Jarosek	9/14/15
QP-9.0	8	T Jarosek	9/14/15
QP-16.1	7	T Jarosek	9/14/15
QP-WI-3.2	3	T Jarosek	9/14/15
QP-WI-6.3	0	T Jarosek	9/14/15
QP-WI-14.3	0	T Jarosek	9/15/15
QP-WI-17.3	0	T Jarosek	9/15/15

REFERENCE ONLY

REFERENCE ONLY

SMCI Procedure Training/Review

WORK GROUP: SMCI Mgmt

NAME: Tim Maneval

Procedure	Revision	Signature *	Date
QP-WI 14.3	Rev 0	Tim Maneval	8-17-15
QP-WI 17.3	Rev 0	Tim Maneval	8-17-15
QP-5.3	Rev 4	Tim Maneval	8-17-15
QP-9.0	Rev 8	Tim Maneval	8-17-15
QP-WI 6.3	Rev 0	Tim Maneval	8-17-15
N/A			

REFERENCE ONLY

*By signing this block I acknowledge that I have read and understand the intent of the procedure

REFERENCE ONLY

Exhibit A, Form TF-001 - Training Form

TRAINING FORM

INSTRUCTOR: Scott Miller

SUBJECT:

- QP-2.2, Quality Assurance Auditor & Lead Auditor Training & Certification, Rev 3,
- QP-5.3, Traveler Development, Rev 4,
- QP-7.1, Receiving Inspections, Rev 5,
- QP-7.3, Commercial Grade Dedication For Internal Use, Rev 7,
- QP-7.6, Commercial Grade Dedication By Suppliers, Rev 2,
- QP-9.0, Weld Filler Metal & Consumables Control, Rev 8,
- QP-WI-6.3 Traveler Issuance Rev 0,
- QP-WI-14.3 Traveler Usage & Completion,
- QP-WI-17.3 Traveler Closeout & QA Records Archiving Rev 0,
- QP-WI-CUT01, Laser, Waterjet & Plasma Cutting, Rev 5,
- QP-WI-CUT02, Laser, Waterjet & Plasma Cutting Embedment, Rev 1 (CANCELLED)

ATTENDEES: SMCI Foreman
(Print Name)

DATE: 7/10/15

(Sign Name)

1 Calvin Smith	
-------------------	--

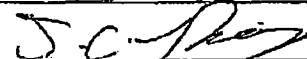

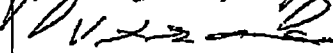
SUBJECT:

- QP-5.3, Traveler Development, Rev 4,
- QP-WI-6.3 Traveler Issuance Rev 0,
- QP-WI-14.3 Traveler Usage & Completion,
- QP-WI-CUT01, Laser, Waterjet & Plasma Cutting, Rev 5,
- QP-WI-CUT02, Laser, Waterjet & Plasma Cutting Embedment, Rev 1 (CANCELLED)

ATTENDEES: PreFab, Paint/Blast
(Print Name)

DATE: 7/10/15

(Sign Name)

1 John Riley	
2 Raymond Morgan	
3 Victor Rowchetti	

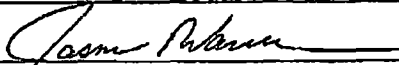
SUBJECT:

- QP-5.3, Traveler Development, Rev 4 & QP-WI-6.3 Traveler Issuance Rev 0

ATTENDEES: Machinist
(Print Name)

DATE: 7/10/15

(Sign Name)

1 Jason Warren	
-------------------	--

Notes: The information noted above and expectations were reviewed with the above personnel in attendance.

Instructor Signature: 

Date: 7/10/15

REFERENCE ONLY

SMCI Procedure Training/Review

WORK GROUP: SMCI MANAGEMENT

NAME George Lynn

Procedure	Revision	Signature *	Date
QP-2.2 Quality Assurance Auditor & Lead Auditor Training & Certification	3	<i>George Lynn</i>	7-13-15
QP 7.1 Receiving Inspections	5	<i>George Lynn</i>	7-1-15
QP-7.3 Commercial Grade Dedication For Internal Use	7	<i>George Lynn</i>	6-30-15
QP-7.6 Commercial Grade Dedication By Suppliers	2	<i>George Lynn</i>	6-30-15
QP-9.0 Weld Filler Metal & Consumables Control	8	<i>George Lynn</i>	7-13-15
QP-5.3 Traveler Development	4	<i>George Lynn</i>	7-13-15
QP-CUT01 Laser, Water Jet & Plasma Cutting	5	<i>George Lynn</i>	7-13-15
QP-WI-6.3 Traveler Issuance & Control	0	<i>George Lynn</i>	7-14-15
QP-WI-14.3 Traveler Usage & Completion	0	<i>George Lynn</i>	7-14-15
QP-WI-17.3 Traveler Closeout & QA Record Archiving	0	<i>George Lynn</i>	7-14-15
QP-WI-3.2 Metal Tek/SMCI Drawing Format	3	<i>George Lynn</i>	7-17-15
QP-16.1 10CFR 21 & 10 CFR 50.55 (e) Reporting	7	<i>George Lynn</i>	7-17-15
N/A			

*By signing this block I acknowledge that I have read and understand the intent of the procedure

PTF-001 Rev 0 7/13/2015

Page 1 of 1

REFERENCE ONLY

REFERENCE ONLY

Exhibit A, Form TF-001 - Training Form

TRAINING FORM

INSTRUCTOR: GAMAL HANDAL

SUBJECT:

- QP-WI-CUT01 REV 5
- QP-WI-CUT02 REV 1
- QP-9.0 REV 8
- QP-5.3 REV 4
- QP-WI-6.3 REV 0
- QP-WI-17.3 REV 0
- QP-WI-14.3 REV 0
- QP-WI-3.2 REV 3

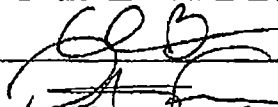
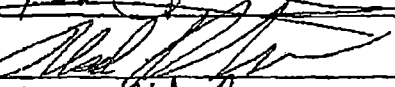


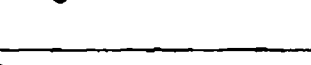



DURATION: 1 HOUR

ATTENDEES: SEE BELOW

DATE: 7/15/15

(Print Name)

(Sign Name)

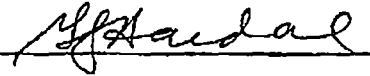
1 CHRIS BOPP	
2 PETER FURMAN	
3 ABDEL RAHAMAN	
4 ADAM MOHR	
5 GAMAL HANDAL	
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Notes: The information noted above and expectations were reviewed with the above personnel in attendance.

Instructor Signature:

Date:

7/15/15



REFERENCE ONLY

Agenda

QUALITY MEETING 7-15-15
RBB 8-12-15

- Safety-PPE
- Safety Culture-“Tribal Knowledge”, Personal responsibility
- DMTM-Recognition/One Minute Reminder
- CAR 2015-202
- Procedures Revision Review: QP-2.2 Rev 3, QP-2.0 Rev 2, QP-5.3 Rev 4, QP-7.1 Rev 5, QP-7.3 Rev 7, QP-17.3 Rev 0, QP-7.6 Rev 2, QP-9.0 Rev 8, QP-3.2 Rev 3, QP-WI-6.3 Rev 0, QP-WI-14.3 Rev 0, QP-WI-CUT02 Rev 1 and QP-WI-CUT01 Rev 5

REFERENCE ONLY

REFERENCE ONLY

REFERENCE ONLY

Exhibit A, Form TF-001 - Training Form

TRAINING FORM

INSTRUCTOR: SHAWN Beck

SUBJECT: QUALITY Meeting - SEE AGENDA

ATTENDEES: GC
(Print Name)

DATE: 7.15.15
(Sign Name)

1	BRIAN FORD	<i>Brian Ford</i>
2	Kyle Stevens	<i>Kyle Stevens</i>
3	Daryl Dool	<i>Daryl Dool</i>
4	Ryan Hite	<i>Ryan Hite</i>
5	Jeff Blanton	<i>Jeff Blanton</i>
6	Chris Keenan	<i>Chris Keenan</i>
7	Zach Strickland	<i>Zach Strickland</i>
8	Anthony (C) Gayle	<i>Anthony (C) Gayle</i>
9	ERIC ROHRSCHEIB	<i>Eric Rohrscheib</i>
10	DAN GRANNAN	<i>Dan Grannan</i>
11	GARY COLE	<i>Gary Cole</i>
12		
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Notes: The information noted above and Expectations were reviewed with the above personnel in attendance.

Instructor Signature:

Shawn Beck

Date:

7-15-15

REFERENCE ONLY

Exhibit A, Form TF-001 - Training Form

TRAINING FORM

INSTRUCTOR: Shawn Beck

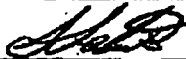


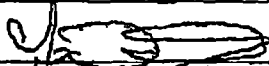
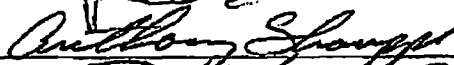
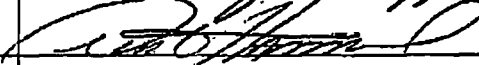
SUBJECT: QUALITY MEETING - SEE AGENDA

ATTENDEES: QC

DATE: 7-15-15

(Print Name)

(Sign Name)

1	Steven Letinka	
2	DAN	
3	Bill Smith	
4	Yona Daoheuang	
5	ANTHONY STOUPE	
6	DUSTIN HAMMOND	
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Notes: The information noted above and Expectations were reviewed with the above personnel in attendance.

Instructor Signature:

 _____

Date:

7-15-15

REFERENCE ONLY

Exhibit A, Form TF-001 - Training Form

TRAINING FORM

INSTRUCTOR: Shawn Beck





SUBJECT: Quality Meeting - SEE AGENDA

ATTENDEES: QC


DATE: 7-15-15

(Print Name)

(Sign Name)

1	<u>Susan Pierce</u>	
2	<u>Mike [unclear]</u>	
3	<u>Justin Lynn</u>	
4	<u>Nelson Guerrero</u>	
5	<u>BEN FOX</u>	<u>Ben Fox</u>
6		
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11	<u>N</u>	<u>A</u>
12		
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15		

Notes: The information noted above and Expectations were reviewed with the above personnel in attendance.

Instructor Signature: 

Date: 7-15-15

REFERENCE ONLY

Exhibit A, Form TF-001 - Training Form

TRAINING FORM

INSTRUCTOR: Shawn Beck



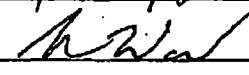
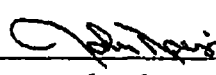
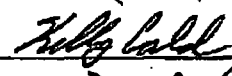

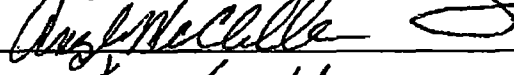
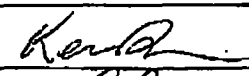
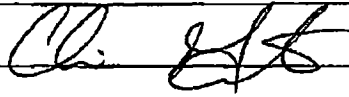
SUBJECT: QUALITY Meeting - SEE AGENDA

ATTENDEES: QC


DATE: 7-15-15

(Print Name)

(Sign Name)

1	<u>CHRIS WHITLOCK</u>	
2	<u>Mark Miller</u>	
3	<u>John Wood</u>	
4	<u>John Davis</u>	
5	<u>KELLY CALOER</u>	
6	<u>MIKE MANDLEY</u>	
7	<u>Angela McKellan</u>	
8	<u>Ken Grochulski</u>	<u>Ken Grochulski</u>
9	<u>KEVIN BROWN</u>	
10	<u>Chris Gates</u>	
11		
12		
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15		

Notes: The information noted above and Expectations were reviewed with the above personnel in attendance.

Instructor Signature: 

Date: 7-15-15

Mi#	Stamp# /Name	Type	Manufacturer	Heat/Lot	QTY Out	Date Out	Time Out	QC Initial	QTY In	Date In	Time In	QC Initial	Job#/ Document#
G 15765	A00250 TEST	EHT-1	ESAB	100285	34.91	6-24-14	1900	[Signature]	33.36	6-24-14	2345	[Signature]	TEST
B 15765	XAVIER TEST	EHT-1	ESAB	100285	26.54	6-24-14	1900	[Signature]	24.61	6-25-14 6-24-14	0115	[Signature]	TEST
B 15765	27 Greg	EHT-1	ESAB	100285	24.5	6-25-14 6-24-14	100 PM	JW	23.0	6-25-14	300 PM	JW	925 00349
B 15765	TEST	EHT-1	ESAB	100285	22.93	6-26-14	1900	[Signature]	20.23	6-26-14	1150 PM	[Signature]	
G 15765	TEST	EHT-1	ESAB	100285	33.35	6-26-14	1900	[Signature]	31.85	6-26-14	12:27 PM	[Signature]	
EA 15765	TEST	EHT-1	ESAB	100285	3.71	6-26-14	1900	[Signature]	0	6-26-14	2130	[Signature]	
S 15765	TEST 22	EHT-1 045	ESAB	100285	14.69	6-26-14	2130	[Signature]	13.03	6-26-14	1100 PM	[Signature]	
U 15765	Jacob	EHT-1	ESAB	100285	21.46	6-27-14	0910	Nb	30.61	6-27-14	4:34 PM	[Signature]	925 00343
4 15765	TEST	-045 EHT-1	ESAB	100285	30.60	6-27-14	1900	[Signature]	28.50	6-27-14	2230 25	[Signature]	TEST
4 15765	TEST	-045 EHT-1	ESAB	100285	28.50	6-27-14	2300	[Signature]	27.6	6-28-14	0140	[Signature]	TEST
G 15765	27 Greg	-045 EHT-1	ESAB	100285	31.85	6-30-14	800 AM	JW	24.28	6-30-14	4:25 PM	M.M	925 00341
B 15765	22 JACOB	-045 EHT-1	ESAB	100285	20.24	6-30-14	8:20 AM	JW	19	6-30-14	2:30 PM	M.M	925 00345
15765	TEST	EHT-1	ESAB	100285	24.28	6-30-14	2210	[Signature]	23.60	7-1-14	0245	[Signature]	TEST 923
G 15765	6/27	EHT-1 045	ESAB	100285	23.61	7-1-14	0645	Nb	18.77	7-1-14	1620	Nb	00341 923
G 15765	6/27	EHT-1	ESAB	100285	18.70	7-2-14	0630	Nb	16.73	7-2-14	12:03 PM	M.M	00340
G 15765	TEST	-045 EHT-1	ESAB	100285	6.74	7-2-14	2330	[Signature]	16.08	7-3-14	0120	[Signature]	TEST
G 15765	TEST	-045 EHT-1	ESAB	100285	13.04	7-3-14	0430	[Signature]	11.37	7-3-14	1730	[Signature]	TEST

Alt	Standard Name	Vol	Year	Sp. No.	Station	Date	Time	Operator	QTY	Time	Time	Notes	Alt
15765	Greg	045	ESAB	100285	1610	7-10-14	1327	NB	15.94	7-10-14	1430	NB	00337 923
15765	Greg	045	ESAB	100285	15.94	7-15-14	1000 AM JW		15.01	7-15-14	1415		00337 923
15765	R	045								7-15-14			
15702	MIKE	045	ESAB	95188	32.0	7-15-14	1320	NB					00330 923
15701	William	045	ESAB	95188	9.47	7-15-14	1320	NB					00330 923
14137B	MIKE	045	Lincoln	13816107	New	7-15-14	1415		15.87	7-15-14	1415		00050 923
14137B	William	045	Lincoln	13816107	New	7-15-14	1415		15.87	7-15-14	1415		00050 923
14137B	James	045	Lincoln	13816107	New	7-15-14	3:45 PM		15.05	7-15-14	2300		00030
14137B	Matt	045	Lincoln	13816107	New	7-15-14	3:46 PM		14.70	7-15-14	2300		00030
14137B	COOY	045	Lincoln	13816107	New	7-15-14	5:150		14.43	7-15-14	2315		00030
14137B	Jack	045	Lincoln	95188	10.70	7-16-14	8:30 AM	AS	10.67	7-17-14	11:00	mm	923 00337
14137B	Mike	045	Lincoln	13816107	New	7-17-14	11:20	NB	13.56	7-17-14	1400	NB	00024
14137B	Patricia	045											NB 7-17-14 923
14137B	Patricia	045	Lincoln	13816107	New	7-17-14	1300	NB	14.71	7-17-14	1400	NB	00024