



SOUTHWEST RESEARCH INSTITUTE

DEVIATION AND NONCONFORMANCE REPORT

PAGE 1 OF 9

PURCHASE ORDER NO. 88268		PROJECT NO. 20-3606		JOB REQUEST NO. N/A		DNR NO. 88-CNW-001	
ITEM NAME OR ACTIVITY 304L S.S. Plate				MFG./PERFORMED BY G.O. Carlson/ Shipped by E.M. Jorgensen Co			
ITEM DESCRIPTION (S/N, MODEL, WELD, SITE, NAME, ETC.) 4'X8'X1/2" Type 304L Stainless Steel Plate							
DESCRIPTION OF DEVIATION OR NONCONFORMANCE: The 304L Stainless Steel Plate was shipped from E.M. Jorgensen Co. with the wrong heat number marked on the plate.							
PROBABLE CAUSE OF DEVIATION OR NONCONFORMANCE: Unknown							
ORIGINATOR (NAME) Thomas A. Mayces <i>hmf</i>				DATE: December 29, 1988			
ACTION TO CORRECT DEFICIENCY: <i>Requested correction from Emble M. Jorgensen Company and received explanation by FAX 12/28/88 from a Jorgensen manager (Attached).</i>							
ACTION TO PREVENT RECURRENCE: <i>NO ACTION TO PREVENT RECURRENCE required appears to be an isolated case (typographical error).</i>							
CORRECTIVE ACTION BE TAKEN BY (NAME) <i>Robert Brient / SWRI QA</i>				TARGET DATE FOR INITIATION OR COMPLETION <i>12/28/88</i> <i>1/11/89</i>			
DISPOSITION: ACCEPT ☒ Rework ☐ Scrap ☐ Return to Vendor ☐ Hold ☐ Other (Specify) ☐							
BASIS FOR DECISION AND NOTES: <i>SEE Jorgensen Letter and Attachments</i>							
LIST OF ATTACHMENTS: Purchase Documents, Mill Test Reports, and Letter from E.M. Jorgensen Co.						STATUS: ☐ OPEN ☒ CLOSED	
PROJECT MANAGER (SIGNATURE) <i>Resac Jain</i>		DATE <i>1/6/89</i>		DISTRIBUTION: <i>Director</i> MANAGER OF QA <i>BEM</i> ORIGINATOR <i>TAM</i> PROJECT MANAGER (PROJECT FILES) <i>BEM</i> PERSON RESPONSIBLE FOR CORRECTIVE ACTION <i>RDB</i>			
MANAGER OF QA (SIGNATURE) <i>Shane Martin</i>		DATE <i>1/6/89</i>					



SOUTHWEST RESEARCH INSTITUTE
MATERIAL RECEIVED REPORT

1. RECEIVING

EARLE M. JORGENSEN CO.
BOX 1421
HOUSTON, TEXAS

ZIP CODE: 77001

SHIP
TO:

10-22-88

UNLESS OTHERWISE SPECIFIED, SHIP TO ABOVE ADDRESS

PURCHASE ORDER NO. 88268

ORDER DATE 12/13/88

SHIP VIA YOUR TRUCK

FOB POINT DESTINATION

TERMS 1/2 OF 1% 10 NET 30

DELIVERY REQUIRED

AT DESTINATION
NO LATER THAN

12/22/88

PRIORITY NO. (CERTIFIED UNDER REG. DMS 1)

N/A

ATTN: C. WHEATLEY 003691 GOVT. CONTRACT NO. NRC-02-88-005

CARRIER FREIGHT BILL DMG. CLAIM NO. PP/COLL OVERAGE DUP. SHIP. RETURN MATERIAL AUTHORIZATION SHIPPING TICKET PROCESSED BY

ITEM NO.	QUANTITY	UNIT	DESCRIPTION	ITEM IDENTIFIER	NET PRICE	DATE RECEIVED	QUANTITY RECEIVED
A	1	EACH	4' X 8' X 1/2" TYPE 304L (S30403) STAINLESS STEEL PLATE (HOT ROLLED, ANNEALED & PICKLED). (ROLLING DIRECTION TO BE 8'). THE ROLLING DIRECTION SHOULD BE IDENTIFIED ON THE MATERIAL SHIPPED. MARK PLATE WITH ALLOY TYPE.		1815.80		
B	1	EACH	4' X 8' X 1/2" TYPE 316L (S31603) STAINLESS STEEL PLATE (HOT ROLLED ANNEALED & PICKLED) (ROLLING DIRECTION TO BE 8'). THE ROLLING DIRECTION SHOULD BE IDENTIFIED ON THE MATERIAL SHIPPED. MARK PLATE WITH ALLOY TYPE.		2307.90		
QUALITY REQUIREMENTS: CERTIFICATION OF THE ANALYSIS OF CHEMICAL COMPOSITION AND MECHANICAL PROPERTIES (YIELD, STRENGTH, DUCTILITY AND HARDNESS AT ROOM TEMPERA- TURE) TO BE PROVIDED WITH THE MATERIAL. MILL LOT ANALYSIS ACCEPTABLE. CERTIFIC- ATION THAT MATERIAL CONFORMS TO ASTM SPECIFICATION A240.							
*** CONFIRMING ORDER ***							

COPY

DEPARTMENTAL RECEIPT

DATE RECEIVED

DELIVER TO

MACHINE SHOP/BLDG. 162 (5210)

BUYER: JS

REQ NUMBER

604993

ACCOUNT NO.

20-3606-109

AMOUNT

4,123.70

ACCOUNT NO.

AMOUNT

TO BE USED FOR - CNWRA CORROSION PROJ.



SOUTHWEST RESEARCH INSTITUTE
MATERIAL RECEIVED REPORT

1. RECEIVING

EARLE M. JORGENSEN CO.
BOX 1421
HOUSTON, TEXAS

ZIP CODE: 77001

SHIP *****
TO: ** **
** PAGE 2 **
** CONTINUATION **
** **

UNLESS OTHERWISE SPECIFIED, SHIP TO ABOVE ADDRESS

PURCHASE ORDER NO. 88268

ORDER DATE 12/13/88
SHIP VIA YOUR TRUCK
FOB POINT DESTINATION
TERMS 1/2 OF 1% 10 NET 30

DELIVERY REQUIRED
AT DESTINATION
NO LATER THAN 12/22/88

PRIORITY NO. (CERTIFIED UNDER REG. DMS 1)
N/A

ATTN C. WHEATLEY 003691 GOVT. CONTRACT NO. NRC-02-88-005

CARRIER FREIGHT BILL DMG. CLAIM NO PP/COLL OVERAGE DUP. SHIP. RETURN MATERIAL AUTHORIZATION SHIPPING TICKET PROCESSED BY

ITEM NO.	QUANTITY	UNIT	DESCRIPTION	ITEM IDENTIFIER	NET PRICE	DATE RECEIVED	QUANTITY RECEIVED
			"IF THIS ORDER INCLUDES A GOVERNMENT CONTRACT NUMBER, THEN ANY PROPERTY FURNISHED HEREWITH IS CONSIDERED GOVERNMENT-FURNISHED PROPERTY WHICH MUST BE ACCOUNTED FOR IN ACCORDANCE WITH FAR, PART 45. REFER TO GENERAL PURCHASE ORDER TERMS AND CONDITIONS FOR RISK OF LOSS." JS				

DEPARTMENTAL RECEIPT

DATE RECEIVED

DELIVER TO

MACHINE SHOP/BLDG. 162 (5210)

BUYER: JS

REQ. NUMBER

60492

ACCOUNT NO.

AMOUNT

ACCOUNT NO.

AMOUNT

TO BE USED FOR - CORROSION PROJ.

PHONE (713)672-1621

5311 CLINTON DR

P.O. BOX 1421

HOUSTON, TX 77251

ORDERED BY

SELL DIST	SHIP DIST	INVOICE NUMBER	TR
H	D	020945 CT	

CUSTOMER ORDER - REQ. NO.

DATE ENTERED

BY

12/13/88

CW

JIM

RESALE

88268

1406

S
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SOUTHWEST RESEARCH INSTITUTE

P.O. BOX 28510

SAN ANTONIO, TEXAS

78228

S
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O

8500 CULEBRA RD

SAN ANTONIO, TEXAS

CERTIFICATE OF CONFORMANCE

ITEM #	QUANTITY	DESCRIPTION / SIZE / COLOR MARK	LOCATION	HEAT #
QCM		304L HR A&P PL ASTM A240	PINK STP BRN	
QCM4540	1 PC	1/2 F/C 48 X 96		
5137	120	FLAME CUTTING		
QEF		316L HR A&P PL ASTM A240		
QEF4540	1 PC	1/2 F/C 48 X 96		
5137	120	FLAME CUTTING		
8499		CUT TO SIZE GRAIN DIRECTION TO RUN 96" LENGTH MARK EA PC WITH GRAIN DIREC TION AND TYPE OF MATERIAL TEST REPORTS		

We hereby certify that the material covered by this report will meet the applicable requirements described herein, including any specifications forming a part of the description.

EARLE M. JORGENSEN CO.

BY Jeannette Elliff
TEST REPORT SUPERVISOR

5/9

2388
PAGE 1 OF 2

G.O. CARLSON Inc
Producers of Stainless Steel,
Nickel Alloys and Titanium 
THORNDALE, PA. 19372

304L
DATE: 28-Sep-88

GOC: 11333

TEST CERTIFICATE

Q. C. EMJ-D 13

QCM

**** SOLD TO: ****

Q.C.
EMJ-D
19

**** SHIP TO: ****

OCT 13 1988

EARLE M JORGENSEN CO
P O BOX 1900
SCHAUMBURG IL 60194

EARLE M JORGENSEN CO
1900 MITCHELL BOULEVARD
SCHAUMBURG IL 60194

OCT 04 1988

CUSTOMER ORDER #
30657

CUSTOMER MARK #
QCM4540

304L HRAP
ASTM A240-87, ASME SA240 SECT II, 1986 ED, 1987 ADD, QQ-S-766D
(2/5/88) CLASS 304L, COND-A, NO. 1 FINISH, AMS-5511E, UNS-S30403

ITEM QCM4540 DESCRIPTION

MECHANICAL TESTS

1 .5 x 96 x 300

TEST	YIELD	TENSILE	ELONG	R/A		
DIR	PSI	PSI	%	%	HRD	BEND COND
Represented by Heat T0954-A5BB						
TT	37300	81100	65	65	150	A

QTY HEAT
1 T0954-A6AA
T0954-A5BB

ITEM DESCRIPTION

MECHANICAL TESTS

2 .5 x 96 x 293

TEST	YIELD	TENSILE	ELONG	R/A		
DIR	PSI	PSI	%	%	HRD	BEND COND
Represented by Heat T0954-A5BB						
TT	37300	81100	65	65	150	A

QTY HEAT
1 T0954-A6AB
T0954-A5BB

ITEM DESCRIPTION

MECHANICAL TESTS

3 .5 x 96 x 300

TEST	YIELD	TENSILE	ELONG	R/A		
DIR	PSI	PSI	%	%	HRD	BEND COND
Represented by Heat T0954-B6BC						
TT	38600	82400	60	65	156	A

QTY HEAT
1 T0954-A6BB
T0954-B6BC

ITEM DESCRIPTION

MECHANICAL TESTS

4 .5 x 96 x 288

TEST	YIELD	TENSILE	ELONG	R/A		
DIR	PSI	PSI	%	%	HRD	BEND COND
Represented by Heat T0954-A5BB						
TT	37300	81100	65	65	150	A

QTY HEAT
1 T0954-A6BA
T0954-A5BB

***** HEAT ANALYSIS *****
HEAT: C Mn P S Si Cr Ni N
T0954 .022 1.46 .026 .005 .47 18.27 9.14 .067

T0954

6/9

G.O. CARLSON Inc.
Producers of Stainless Steel,
Nickel Alloys and Titanium **G**
THORNDALE, PA. 19372

PAGE 2 OF 2

DATE: 28-Sep-88

GOC: 11333

TEST CERTIFICATE

Q. C. EMJ-D 13

**** SOLD TO: ****

**** SHIP TO: ****

OCT 13 1988

EARLE H JORGENSEN CO
P O BOX 1900
SCHAUMBURG IL 60194

EARLE H JORGENSEN CO
1900 MITCHELL BOULEVARD
SCHAUMBURG IL 60194

CUSTOMER ORDER #
30657

CUSTOMER MARK #
QCH4540

304L HRAP
ASTM A240-87, ASME SA240 SECT II, 1986 ED, 1987 ADD, QQ-S-766D
(2/5/88) CLASS 304L, COND A, NO. 1 FINISH, AMS-5511E, UNS-S30403

Minimum Solution Anneal Temperature 1900°F.

Above material has satisfactorily passed the Intergranular Corrosion test per QQ-S-766D,
ASTM, A-262-86, Practice E. Sensitized 1250°F 1/2 hour. Air Cooled.

J. J. McCull
Coordinator
9/29/88

I HEREBY CERTIFY THE ABOVE FIGURES ARE CORRECT AS CONTAINED IN RECORDS OF THIS CORPORATION

EARLE M. JORGENSEN CO.
STEEL
HOUSTON, TEXAS

8/5

TELEPHONE (AREA 713)
672-1621

5311 CLINTON DRIVE
P.O. BOX 1421
HOUSTON, TEXAS 77251

December 28, 1988

Mr Bob Bryant
Southwest Research Institute
Post Office Box 28510
San Antonio, Texas 78228

REFERENCE: Your Purchase Order 88268

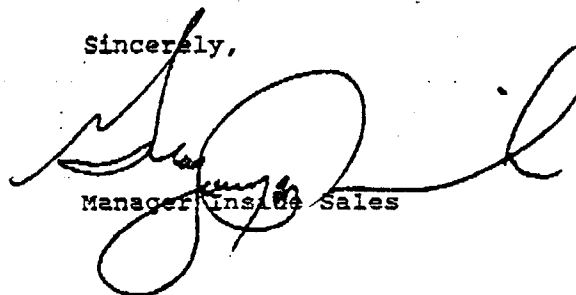
Dear Mr Bryant:

This is to confirm Jim Silvers' conversation with our Mr Charles Wheatley regarding the 304L Plate, 1/2" TH X 48" X 96", which our Dallas facility marked with heat number 0951 in error.

The correct heat number should be 0954 as reported on your test reports. We contacted our Dallas facility and they have never had material with heat number 0951 in their inventory.

We are sorry for any inconvenience this may have caused your company.

Sincerely,



Manager Inside Sales

GParrish:ba

9/9

SOUTHWEST RESEARCH INSTITUTE

RECEIVING INSPECTION REPORT

LOG NO. 2707AIB R. I. C. NO. N/A P. R. NO. 604992 P. O. NO. 88268

PURCHASE PROJECT 20-36036 END USE PROJECT N/A DUE DATE 12/22/88

P. O. ITEM NO.	ITEM DESCRIPTION , LOG , ID. NO. , S / N , ETC.	DATE REC.	QUANTITY
A	4'X8'X1/2" Type 304L S.S. Plate	12/28/88	1
B	4'X8'X1/2" Type 316L S.S. Plate	12/28/88	1

DESCRIPTION OF INSPECTION(S) PERFORMED :

RESULTS: PASS FAIL

VISUAL

X*

PACKING LIST ☐
 SHIPPING RELEASE ☐
 EXTERIOR INSPECTION DAMAGE ☐
 INTERIOR INSPECTION DAMAGE ☐

REMARKS : * The S.S. Plates pass ASTM 240 requirements however a DNR was issued for the 304L S.S. Plate having the wrong Heat No. recorded (T0951 instead of T0954).

INSPECTOR SIGNATURE :

Sharon H. Hagen

DATE : 12/29/88

REQUIREMENT (CHECK BOX IF N. A.)	DATE	REQUIREMENT (CHECK BOX IF N. A.)	DATE
MILL TEST (CHEMICAL PROPERTIES)	<u>12/28/88</u>	VENDOR INSPECTION REPORT	☒
MILL TEST (MECHANICAL PROPERTIES)	<u>12/28/88</u>	CERTIFICATE OF CONFORMANCE	☒
CHEMICAL ANALYSIS REPORT	☒	VQSLs ENTRY MADE	<u>12/28/88</u>
CERTIFICATE OF CALIBRATION	☒	RED TAG ISSUED	<u>12/29/88</u>
HEAT TREATMENT CERTIFICATION	☒	OTHER _____	

DNR NO. 88-CNR-204 ISSUED 12/29/88 COMPLETED 1/6/89 CONDITIONAL RELEASE DATE 1/6/89

DATE

1/6/89

SIGNATURE

Sharon H. Hagen CNR 14 & DNR