

FORM U-1A MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS
 (Alternative Form for Single Chamber, Completely Shop or Field Fabricated Vessels Only)
 As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

1. Manufactured and certified by <u>AXTON INCORPORATED, 441 DERWENT PLACE, ANNACIS BUSINESS PARK, DELTA, BC V3M 5Y9</u> (Name and address of manufacturer)																																																																																	
2. Manufactured for <u>TECHNIP USA CORPORATION, 555 WEST ARROW HIGHWAY, CLAREMONT, CALIFORNIA, USA 91711-4805</u> (Name and address of purchaser)																																																																																	
3. Location of installation <u>SUNCOR 220 MMSCFD HYDROGEN PLANT, FORT MCMURRAY, ALBERTA, CANADA</u> (Name and address)																																																																																	
4. Type <u>VERTICAL</u> (Horiz or vert tank)		<u>69647</u> (Mfg's serial No)	<u>U3572.2</u> (CRN)	<u>69647A01 REV. 07</u> (Drawing No)	<u>N/R</u> (Mat'l Bd No)	<u>2008</u> (Year built)																																																																											
5. The chemical and physical properties of all parts meet the requirements of material specifications of the ASME BOILER AND PRESSURE VESSEL CODE. The design, construction, and workmanship conform to ASME Rules, Section VIII, Division 1 <u>2004</u> (Year)																																																																																	
to <u>2006</u> Addenda (date)		N/A		N/A		N/A		N/A																																																																									
6. Shell: <u>SA-516-70N (see remarks)</u> Mat'l (Spec. No. Grade)		1.375 "		Code Case Nos. <u>N/A</u>		Special Service per UG 120(d) <u>8'-6.25"</u>		24'-0"																																																																									
7. Seams: <u>TYPE 1</u> Long (Welded, Dbl., Sngl., Lap, Butt)		<u>FULL</u> R.T. (Spot or Full)	<u>100</u> Eff (%)	<u>N/A</u> H.T. Temp (°F)	<u>N/A</u> Time (hr)	<u>Type 1</u> Girth (Welded, Dbl., Sngl., Lap, Butt)	<u>FULL</u> R.T. (Spot, Partial, or Full)	Length (overall) (ft & in) <u>4</u> No. of Courses																																																																									
8. Heads: (a) Mat'l <u>SA-516-70N (see remarks)</u> (Spec. No., Grade)		(b) Mat'l <u>SA-516-70N (see remarks)</u> (Spec. No., Grade)																																																																															
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If removable, bolts used (describe other fasteners) <u>N/A</u> (Mat'l., Spec. No., Gr. Size, No.)																																																																																	
9. MAWP <u>501</u>		psi at max. temp.		300		°F																																																																											
Min. design metal temp. <u>-20 (-50 for skirt)</u> °F at <u>501</u> psi.		<input checked="" type="checkbox"/> Hydro. or <input type="checkbox"/> Pneu. or <input type="checkbox"/> Comb. test pressure		652		psi.																																																																											
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11. Supports: Skirt <u>YES</u> (Yes or No)		<u>0</u> (No.)	Lugs <u>0</u> (No.)	Legs <u>0</u> (No.)	Other <u>N/A</u> (Describe)	Attached	<u>WELDED TO BTM. HEAD</u> (Where and How)																																																																										
12. Remarks: Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report: ALL PRE-FABRICATED NOZZLES (ITEM 10) BY UNIVERSAL WELD OVERLAYS INC. : SERIAL NOS. UWO1990N3.1, UWO1990L2.1, UWO1990L2.1, UWO1990L2.1, L2.2, L2.3, L2.4, L2.5, L2.6, UWO1990B3.1, B2.2, UWO1990D6.1 (Name of part, item number, Mfg's name and identifying stamp)																																																																																	
<p align="center">CUSTOMER RESPONSIBLE FOR PRESSURE RELIEF DEVICES. MATERIALS FOR SHELL, HEAD AND SKIRT IMPACT TESTED TO -50 °F AS PER UCS-66(a). CARBON STEEL C/W CHEMISTRY LIMITS AS PER CUSTOMER REQUIREMENT.</p> <p align="center">SHELL, HEADS, NOZZLES & MANWAYS C/W 1/8" THK. SA-240-304/304L CLADDING OR OVERLAY. CORROSION ALLOWANCE: N/A</p> <p align="center">RT INCLUDED ALL NOZZLES AND MANWAYS AS PER CUSTOMER REQUIREMENT.</p> <p align="center">CATEGORY D WELDS WERE UT INSPECTED AS PER CUSTOMER SPECIFICATION ONLY.</p> <p align="center">PROCESS CONDENSATE SEPARATOR EQUIP. #: 206C-104.</p>																																																																																	

CERTIFICATE OF SHOP/FIELD COMPLIANCE

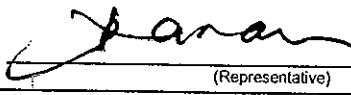
We certify that the statements in this report are correct and that all details of design, material, construction, and workmanship of this vessel conform to the ASME Code for Pressure Vessels, Section VIII, Division 1.

U Certificate of Authorization No. 14284 Expires 20-Dec-2009

Date 2008/06/26 Name AXTON INCORPORATED

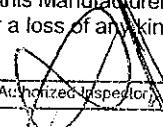
(Manufacturer)

Signed


 (Representative)

CERTIFICATE OF SHOP/FIELD INSPECTION

I undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province and employed by British Columbia Safety Authority of the Province of British Columbia have inspected the pressure vessel described in this Manufacturer's Data Report on 2008/06/26 and state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with ASME Code, Section VIII, Division 1. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in this Manufacturer's Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 2008/06/26 Signed 

Commissions

BC #82

(Authorized Inspector)

(Nat'l Board incl. endorsements, State, Province and No.)

FORM U-2A MANUFACTURER'S PARTIAL DATA REPORT (ALTERNATIVE FORM)
A Part of a Pressure Vessel Fabricated by one Manufacturer for Another Manufacturer
As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

1. Manufactured and certified by <u>Universal Weld Overlays Inc. 135 East Lake Blvd. Airdrie, Alberta, Canada, T2A 2G1</u> <small>(Name and Address of Manufacturer)</small>																																																																																	
2. Manufactured for <u>Axton Incorporated, 441 Derwent Place, Delta, B.C., Canada, V3M 5Y9</u> <small>(Name and Address of Purchaser)</small>																																																																																	
3. Location of installation <u>UNKNOWN</u> <small>(Name and Address)</small>																																																																																	
4. Type <u>NOZZLES, DRAIN & BLINDS</u> <small>[Description of Vessel Part(shell, two piece head, tube bundle)]</small>																																																																																	
SEE ITEM 11 ON U-4 <small>(Mfg.'s serial No.)</small>																																																																																	
N/A <u>UWO 07-1990 (A), (B), (C), (D) & (E) Rev. 0</u> <small>(Nat'l. Bd. No.) (Drawing No.)</small>																																																																																	
N/A <u>UWO</u> <small>(Drawing prepared by)</small>																																																																																	
5. ASME Code, Section VIII, Div. 1 <u>2004 EDITION 2006 ADDENDA</u> <small>(Edition and Addenda (date))</small>																																																																																	
N/A <u>N/A</u> <small>(Code Case No.)</small>																																																																																	
6. Shell (a) No. of course(s) <u>(b) Overall length (ft & in.):</u>																																																																																	
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9. Impact test <u>At test temperature of</u> <u>°F.</u> <small>[Indicate yes or no and the component(s) impact tested]</small>																																																																																	
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14. Remarks <u>A) OVERLAY TYPE: 2 LAYERS ER 309L / ER 308L</u> <u>B) LIQUID PENETRANT TESTING: 100% WELD OVERLAY</u> <u>C) RADIOGRAPHY: 100% BUTT WELDS</u> <u>C) WELDER OPERATOR: T, K, D, N, C, B, O18</u> <small>NOTE #1: UWO PERFORMED BUTT WELD ATTACHMENT WELD AND WELD OVERLAY ONLY.</small> <small>NOTE #2: UWO TAKES NO RESPONSIBILITY IN THE DESIGN FUNCTION OF THESE ITEMS.</small>																																																																																	
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U Certificate of Authorization No. <u>28525</u> Expires <u>JULY 2nd/2010</u>																																																																																	
Date <u>DEC. 03/2007</u> Name <u>Universal Weld Overlays Inc.</u> <u>Signed</u> <u>(Manufacturer)</u> <u>(Representative)</u>																																																																																	
CERTIFICATE OF SHOP/FIELD INSPECTION																																																																																	
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of <u>Alberta</u> and employed by <u>ABSA</u> of <u>Alberta</u>																																																																																	
have inspected the pressure Vessel part described in the Manufacturer's Data Report on <u>DEC. 03/2007</u> certificate, and state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel part in accordance with ASME Code, Section VIII, Division 1. By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel part described in this Manufacturer's Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.																																																																																	
Date <u>DEC. 03/2007</u> Signed <u>DN</u> Commissions <u>AB# 270</u>																																																																																	
(Authorized Inspector) (Na'l Board incl. endorsement, State, Province and No.)																																																																																	

FORM U-4 MANUFACTURER'S DATA REPORT SUPPLEMENTARY SHEET
As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

1. Manufactured and certified by Universal Weld Overlays Inc. 135 East Lake Blvd. Airdrie, Alberta, Canada
(Name and Address of Manufacturer)

(Name and Address of Manufacturer)

Manufactured for Axton Incorporated, 441 Derwent Place, Delta, B.C., Canada, V3M 5Y9
(Name and Address of Purchaser)

(Name and Address of Purchaser)

3. Location of installation UNKNOWN (Name and Address)

(Name and Address)

4. Type _____
(Horiz., vert., or sphere) _____
(Tank, separator, heat exh., etc.) _____
SEE ITEM 11
(Mfg's. Serial No.)

UWO 07-1990 (A), (B), (C), (D) & (E) Rev. 0
(Drawing No.)
2007
(CRN) _____
(Nat'l Bd. No.) _____
(Year built) _____

SEE ITEM 11

(Mfg's. Serial No.)

2007

2007
(Year built)

Data Report
Item Number

Remarks

11. Nozzles, inspection, and safety valve openings continued

Certificate of Authorization: Type U No. 28525

Expires

JULY 2nd 2007

Date Dec. 03/2007 Name Universal Weld Overlays Inc.
(Manufacturer)

Signed

(Representative)

Date Dec. 03/2007 Name Don
(Authorized Inspector)

Signed

(Representative)

Date Dec. 03/2007 Name *Don*
(Authorized Inspector)

Commissions

AB#230

Date Dec. 03/2007 Name Don Commissions AB#270
(Authorized Inspector) (Nat'l Board incl. endorsement, State, Province and No.)

M.T.I.
8

CERTIFIED BY:

Axton
INCORPORATED

ALBERTA CRN

441 DERWENT PLACE, ANNACIS BUSINESS PARK
DELTA, B.C. CANADA V3M 5Y9

SHELL MAWP	501	P.S.I.	AT	300	°F
SHELL MAEWP	0	P.S.I.	AT	300	°F
SHELL MDMT	20	°F	AT	501	P.S.I.
TUBE / JKT. MAWP		P.S.I.	AT		°F
TUBE / JKT. MAEWP		P.S.I.	AT		°F
TUBE / JKT. MDMT		°F	AT		P.S.I.

SERIAL NO. 6964 CRN J3572.2

JOB NO. 6964 YEAR BUILT 2008

206C-104 PROCESS CONDENSATE SEPARATOR

P.O. No. 30056H0006

M.T.I.
8

FORM U-1A MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS
(Alternative Form for Single Chamber, Completely Shop or Field Fabricated Vessels Only)
As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

1. Manufactured and certified by AXTON INCORPORATED, 441 DERWENT PLACE, ANNACIS BUSINESS PARK, DELTA, BC V3M 5Y9
(Name and address of manufacturer)

Manufactured for TECHNIP USA CORPORATION, 555 WEST ARROW HIGHWAY, CLAREMONT, CALIFORNIA, USA 91711-4805
(Name and address of purchaser)

3. Location of installation SUNCOR 220 MMSCFD HYDROGEN PLANT, FORT MCMURRAY, ALBERTA, CANADA
(Name and address)

4. Type VERTICAL 69647 U3572.2 69647A01 REV. 07 N/R 2008
(Horiz or vert tank) (Mfg's serial No) (CRN) (Drawing No) (Nat'l Bd No) (Year built)

5. The chemical and physical properties of all parts meet the requirements of material specifications of the ASME BOILER AND PRESSURE VESSEL CODE. The design, construction, and workmanship conform to ASME Rules, Section VIII, Division 1 2004
(Year)

to 2006 N/A N/A Special Service per UG 120(d)
Addenda (date) Code Case Nos. 8'-6.25" 24'-0"

6. Shelf: SA-516-70N (see remarks) 1.375" N/A 8'-6.25" 24'-0"
Mat'l (Spec. No. Grade) Nom. Thk. (in) Corr. Allow. (in) Diam. I.D. (ft & in) Length (overall) (ft & in)

7. Seams: TYPE 1 FULL 100 N/A N/A Type 1 FULL 4
Long (Welded, Dbl., Sngl., Lap, Butt) R.T. (Spot or Full) Eff (%) H.T. Temp (°F) Time (hr) Girth (Welded, Dbl., Sngl., Lap, Butt) R.T. (Spot, Partial, or Full) No. of Courses

8. Heads: (a) Mat'l SA-516-70N (see remarks) (b) Mat'l SA-516-70N (see remarks)
(Spec. No., Grade) (Spec. No., Grade)

Location (Top, Bottom, Ends)	Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (Convex or Concave)
(a) Top Head	1.375"	N/A	N/A	N/A	2:1	N/A	N/A	N/A	CONCAVE
(b) Btm Head	1.375"	N/A	N/A	N/A	2:1	N/A	N/A	N/A	CONCAVE
(c)	N/A								
(d)	N/A								

If removable, bolts used (describe other fasteners)

N/A

(Mat'l, Spec., No., Gr., Size, No.)

9. MAWP 501 psi at max. temp. 300 ° F
Min. design metal temp. -20 (-50 for skirt) ° F at 501 psi. Hydro. or Pneu. or Comb. test pressure 652 psi.

10. Nozzles, inspection and safety valve openings:

Purpose (Inlet, Outlet, Drain)	No.	Diam. or Size	Type	Mat'l	Nom. Thk.	Reinforcement Mat'l.	How Attached	Location
INLET	1	24" X 28"	600# RFWN	SA105 & SA516-70N	0.500" / 1.375"	1-1/4" SA516-70N	UW-16.1e	SHELL
VAPOR OUTLET	1	24"	600# RFWN	SA105 & SA516-70N	1.375"	3/4" SA516-70N	UW-16.1e	TOP HEAD
LIQUID OUTLET	1	6"	600# RFWN	SA105 & SA516-70N	0.718"	3/4" SA516-70N	UW-16.1e	BTM HEAD
DRAIN	1	3"	600# RFWN	SA106B SMLS & SA105	0.438"	N/R	UW-16.1e	SHELL
VENT	1	3"	600# RFLWN	SA106B SMLS & SA105	0.438"	N/R	UW-16.1e	TOP HEAD
LEVEL CONNECTIONS	3	3"	600# RFLWN	SA105	0.650"	N/R	UW-16.1e	SHELL
MANWAY	1	24"	600# RFWN	SA105 & SA516-70N	1.375"	1-1/4" SA516-70N	UW-16.1e	SHELL

11. Supports: Skirt YES Lugs 0 Legs 0 Other N/A Attached WELDED TO BTM. HEAD
(Yes or No) (No.) (No.) (Describe) (Where and How)

12. Remarks: Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report:

ALL PRE-FABRICATED NOZZLES (ITEM 10) BY UNIVERSAL WELD OVERLAYS INC. : SERIAL NOS. UWO1990N3.1, UWO1990L2.1, UWO1990L2.1, UWO1990L2.1, L2.2, L2.3, L2.4, L2.5, L2.6, UWO1990B3.1, B2.2, UWO1990D6.1

(Name of part, item number, Mfg'r's name and identifying stamp)

CUSTOMER RESPONSIBLE FOR PRESSURE RELIEF DEVICES. MATERIALS FOR SHELL, HEAD AND SKIRT IMPACT TESTED TO -50 ° F AS PER UCS-66(a). CARBON STEEL C/W CHEMISTRY LIMITS AS PER CUSTOMER REQUIREMENT.

SHELL, HEADS, NOZZLES & MANWAYS C/W 1/8" THK. SA-240-304/304L CLADDING OR OVERLAY. CORROSION ALLOWANCE: N/A
RT INCLUDED ALL NOZZLES AND MANWAYS AS PER CUSTOMER REQUIREMENT.

CATEGORY D WELDS WERE UT INSPECTED AS PER CUSTOMER SPECIFICATION ONLY.

PROCESS CONDENSATE SEPARATOR EQUIP. #: 206C-104.

CERTIFICATE OF SHOP/FIELD COMPLIANCE

We certify that the statements in this report are correct and that all details of design, material, construction, and workmanship of this vessel conform to the ASME Code for Pressure Vessels, Section VIII, Division 1.

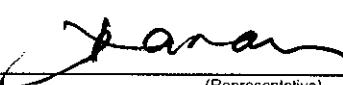
U Certificate of Authorization No. 14284 Expires 20-Dec-2009

Date 2008/06/26

Name

AXTON INCORPORATED

Signed

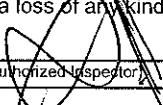

(Representative)

CERTIFICATE OF SHOP/FIELD INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province and employed by British Columbia Safety Authority of the Province of British Columbia have inspected the pressure vessel described in this Manufacturer's Data Report on 2008/06/26 and state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with ASME Code, Section VIII, Division 1. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in this Manufacturer's Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 2008/06/26 Signed

Commissions


Bc #82

(Authorized Inspector)

(Nat'l Board incl. endorsements, State, Province and No.)

CERTIFIED BY:

Axton
INCORPORATED

ALBERTA CRN

441 DERWENT PLACE, ANNACIS BUSINESS PARK
DELTA, B.C. CANADA V3M 5Y9

W	SHELL MAWP	501	P.S.I.	AT	300	°F
RH	SHELL MAEWP	0	P.S.I.	AT	300	°F
	SHELL MDMT	20	°F	AT	501	P.S.I.
	TUBE / JKT. MAWP		P.S.I.	AT		°F
	TUBE / JKT. MAEWP		P.S.I.	AT		°F
	TUBE / JKT. MDMT	0	°F	AT		P.S.I.

SERIAL NO. 6964 CRN U3572.2

JOB NO. 6964 YEAR BUILT 2008

206C-102 PROCESS COMPENSATE SEPARATOR

I.O. No. 30056H0006

M.T.I.
8

MILL TEST REPORTS/CERTIFICATIONS





Certificate of Conformance

Quality Management System Approved

Customer	Customer P.O.
Axton Incorporated Annacis Business Park 441 Derwent Place Delta, BC V3M 5Y9 Canada	602615
	DMC Job Number
	14161

Applicable Specification

ASME SA-264, DMC 100, Technip / Suncor Spec 30056 JSS 0810 001

Qty	Serial Number	Size	Description
1	DMC 14161/3-100	1.688" x 96.00" x 345.00"	Flattened Gas Trimmed Clad Plate.

Component	Material Specification	Heat Number	Starting Thickness	Minimum Thickness	Seam Welded
Clad A	SA 240-304L	471021 004	0.188 in.	0.125 in.	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Clad B	SA 240-304L	471021 004	0.188 in.	0.125 in.	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Clad C	SA 240-304L	471021 004	0.188 in.	0.125 in.	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Clad D	SA 240-304L	471021 004	0.188 in.	0.125 in.	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Clad E	SA 240-304L	471021 004	0.188 in.	0.125 in.	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Filler	ER308L	E39702	0.045 in.	N/A	
Base	SA 516-70	2B151-302-1	1.500 in.	1.375 in.	

	Specification	Results	Attachments
Dimensions	ASME SA-264, DMC 100	Accept	Ultrasonic Inspection
Flatness	ASME SA-264, DMC 100	Accept	Clad Metal Test Report
Ductility Bend Test	—	—	Base Metal Test Report
Shear Test	ASME SA-264, DMC 100	45,092 psi.	Filler Metal Test Report
Tensile	—	—	Radiograph Report
Yield	—	—	Penetrant Test Report
Elongation	—	—	
Surface Finish	ASME SA-264, DMC 100	Accept	
Hardness	Backer: 200 BHN Max per Suncor Spec 0601 Para 7.6	170BHN	ASME: SA-516-70N / SA-240-304L
Ferroxyl	—	—	ASTM:
Heat Treat	—	—	INITIAL: <i>[Signature]</i> DATE: 10/30/07

	Specification	Results	Avg	Unit	Min	Max	Value
Charpy Impact	—	0 0 0	0	Ft/lbs	0	Ft/lbs	0 F

Remarks:
Clad Metal Requirements: Cladding metal seam welded (5 panels, 4 seams); Cladding is for corrosion allowance only.

Base Metal Requirements: Normalized

Base Metal Chemistry: 0.23% Max C, 0.44% max Ceq per SA-20

Base Metal UT: ASME SA-578, Level A, S1

Base Metal LCVN @ -50 Deg. F, 15 Ft.lbs. min per SA-370

CP1211B-1

Certificate of Conformance

Dynamic Materials Corporation certifies that this material has been manufactured and tested in accordance with the referenced specifications and that the information is true and correct.

Patricia Bandish
Quality Assurance

Date:

Patricia Bandish 10/30/07



Certificate of Conformance



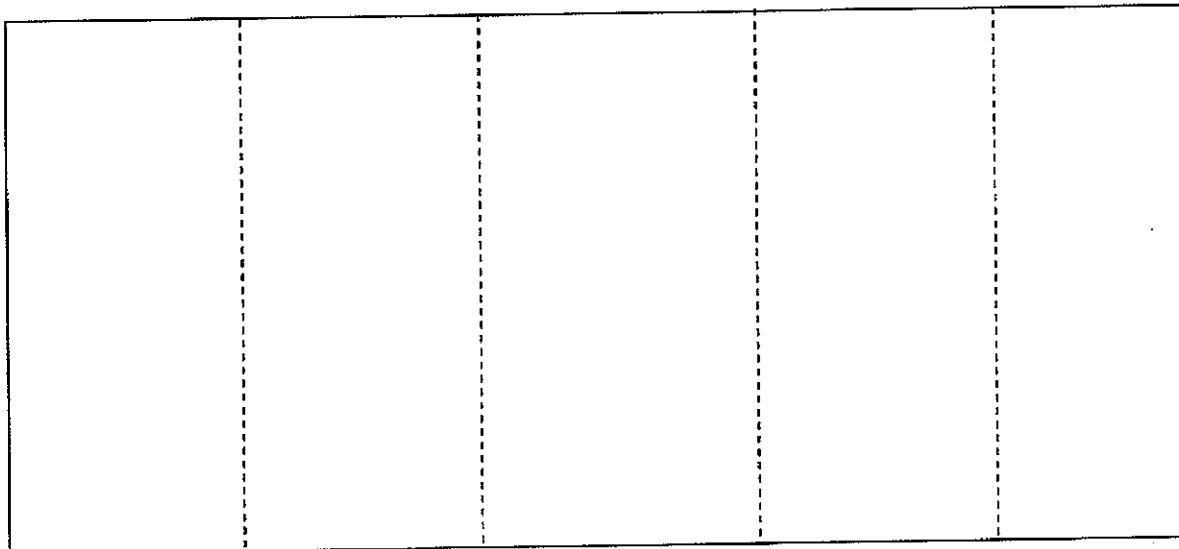
Quality Management Systems Approved

Inspection Report	
Procedure:	DMC 22012, Rev H
Acceptance:	ASME SA-578, Level A, S1, S7
Apparatus:	KB USN-52
Transducer:	Aerotech 1.0", 2.25 MHz
Couplant:	Water
Surface:	As Clad
Scan:	100%
Operator:	Mark Peck
	Level: II
Date:	10/29/2007
Results:	No recordable indications, Accept

Penetrant Testing Report	
Procedure:	DMC 22010, Rev. F
Acceptance:	ASME Sec. VIII Div. 1, Appendix 8
Method:	Visible, Water Washable
Test Temp:	68° F
Penetrant:	Bio-Pen PQR
Cleaner:	Water
Developer:	Bio-Pen NQ1
Operator:	R. William
	Level: II
Date:	10/9/2007
Results:	Accept

Serial Number DMC 14161/3-100

Panels A - E
Ht #471021 004



CP12118-2

Certificate of Conformance
Dynamic Materials Corporation certifies that this material has been manufactured and tested in accordance with the referenced specifications and that the information is true and correct.

Patricia Bandish
Quality Assurance
Date: 10/30/07



ANALYTICAL SERVICES, INC.

724/228-2155
FAX 724/228-9874

P.O. Box 534
Washington, PA 15301

RADIOGRAPHIC EXAMINATION REPORT

Interpretation of radiographs represent good faith opinions only and in no way guarantee the quality, usability or classification of welds or other items inspected.

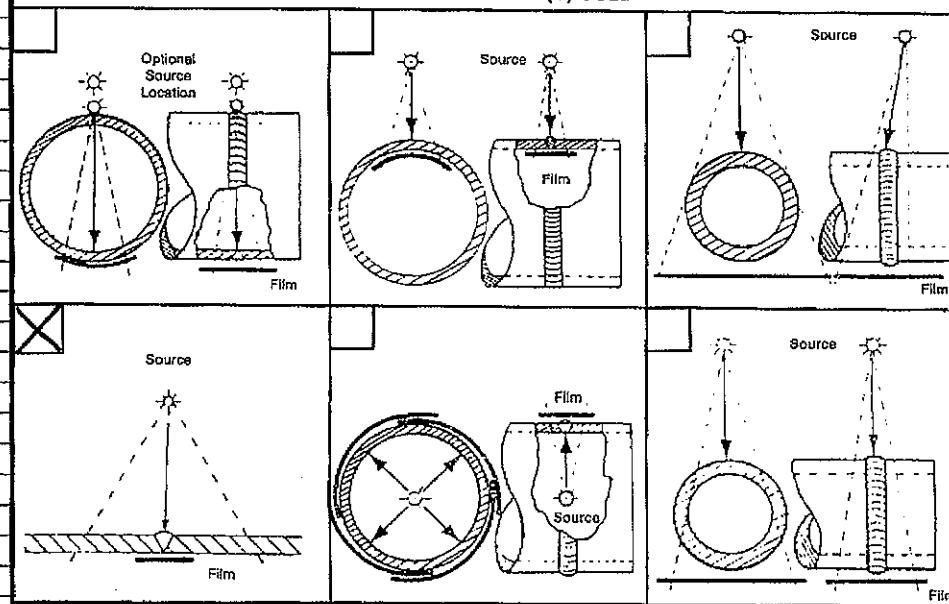
Customer DMC Date 9, 5, 07
Job Location Mt. Braddock, Pa Travel Mileage _____ Film Used _____
Hours Traveled _____ Size _____ No. _____
Customer No. 14161 Hours Worked 4 1/2 X 50 _____
TEI Project No. DTR# 46053 Total Hours _____
Report No. _____

CODES / PROCEDURES / INTERPRETATION REQUIREMENTS

Code ASME Year 2004 Section III Div. 2
Part UW Para UW 53 Addenda 7/05
Procedure No. PT-04 Rev. 7

MATERIAL TYPE Stainless Steel NOMINAL WALL .188"
 REINFORCEMENT N/A WELD THICKNESS .188"
 ISOTOPE TYPE Ir 192 EFF. SIZE .200 CURIES 49
 X-RAY MODEL N/A MA — KV — EFF. SIZE —
 FILM MFG'R AGFA TYPE D4 SINGLE DOUBLE
 SCREEN TYPE AND THICKNESS: FRONT Pb .020" BACK Pb .020"
 PENETRAMETER SIZE: SOURCE SIDE 12 FILM SIDE N/A
 QUALITY LEVEL: T% 2 Required Thole 2
 SHIM THICKNESS N/A SFD 16.188"
 SOD 16" OFD .188" ug <.020"
 VIEWING: SINGLE WALL DOUBLE WALL EXPOSURE TIME 2.5 Min

IDENTIFY TECHNIQUE(S) USED



TEI Radiographer Zahra
TEI Assistant Jared Strode

Leve

Customer Rep