LHe Tank Cold Shock, Bus Duct Pressure Test, Bust Duct and LHe Tank Pressure Test and Bus Duct and LHe Tank Test Reports

Meyer Tool & Mfg., Inc.
4601 SOUTHWEST HWY., OAK LAWN, ILLINOIS 60453
708 / 425-9080
FAX 708 / 425-2612

COLD SHOCK TEST REPORT

MTM JOB NO.:	00918-0010
CUSTOMER:	BNAL
MTM DRAWING/ASSEMBLY/ITEM NO.:	25I151 BOX-E
COMPONENT SERIAL NUMBER :	
COMPONENT DESCRIPTION:	TOP PLATE ASSEMBLY
METHOD:	LN-2
PROCEDURE USED:	☑ MTM-MP-1040 ☐ OTHER _____
RESULTS/COMMENTS:	Cold shock ~~chimney~~ STACKS 20 TIMES WITH LN-2 Liquid NITROGEN
OPERATOR:	DATE: 12-8-04

Meyer Tool & Mfg., Inc.
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PNEUMATIC PRESSURE TEST REPORT

MTM JOB NO.:	00918-0010 E
CUSTOMER:	BNAL.
MTM DRAWING/ASSEMBLY/ITEM NO.:	25I151
COMPONENT SERIAL NUMBER :	
COMPONENT DESCRIPTION:	HELIUM VESSEL ASSY
PRESSURE GAUGE(S) TAG NO.:	# 17 PSIG
PRESSURE GAUGE(S) RANGE:	0/200 PSIG
TEST PRESSURE:	63. PSIG
GAS USED:	
PROCEDURE USED:	☑ MTM-MP-1105 ☐ OTHER
RESULTS/COMMENTS:	HELD 63 PSIG FOR 10 MIN NO PRESSURE DROP OR LEAKS FOUND
OPERATOR:	[signature] DATE: 12-8-04 ☑ ACCEPT ☐ REJECT

Meyer Tool & Mfg., Inc.
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PNEUMATIC PRESSURE TEST REPORT

MTM JOB NO.:	00918
CUSTOMER:	LBNL
MTM DRAWING/ASSEMBLY/ITEM NO.:	25M85
COMPONENT SERIAL NUMBER :	BOX "E"
COMPONENT DESCRIPTION:	BUS DUCT
PRESSURE GAUGE(S) TAG NO.:	PG 18
PRESSURE GAUGE(S) RANGE:	0-600 PSI
TEST PRESSURE:	362.3 PSI
GAS USED:	N2
PROCEDURE USED:	[X] MTM-MP-1105 [ ] OTHER NO LOSS OF
RESULTS/COMMENTS:	WITH IN 10 MINUTES
OPERATOR:	Glenn D. Kurly DATE: 12/9/04 [X] ACCEPT [ ] REJECT

TEST REPORT FORM TR-1105
REV. O

Meyer Tool & Mfg., Inc.
4601 SOUTHWEST HWY., OAK LAWN, ILLINOIS 60453
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FAX 708 / 425-2612

COLD SHOCK TEST REPORT

MTM JOB NO.:	00918-0010 - Box - E
CUSTOMER:	L.B.N.L.
MTM DRAWING/ASSEMBLY/ITEM NO.:	25I151
COMPONENT SERIAL NUMBER :	Box - E -
COMPONENT DESCRIPTION:	REPAIRED BELLOWES ASSY
METHOD:	LN-2
PROCEDURE USED:	☑ MTM-MP-1040 ☐ OTHER
RESULTS/COMMENTS:	SPRAY LIQUID NITROGEN 10 TIMES TO CHECK WELDED AREAS NO LEAKS
OPERATOR:	[signature] DATE: 12-16-04

TEST REPORT FORM TR-1040
REV. O

Meyer Tool & Mfg., Inc.
4601 SOUTHWEST HWY., OAK LAWN, ILLINOIS 60453
708 / 425-9080
FAX 708 / 425-2612

PNEUMATIC PRESSURE TEST REPORT

MTM JOB NO.:	00918-0010 BOX-E
CUSTOMER:	B.N.L.
MTM DRAWING/ASSEMBLY/ITEM NO.:	25I151
COMPONENT SERIAL NUMBER :	Box-E-
COMPONENT DESCRIPTION:	BELLOWES STACK REPAIR ASSY
PRESSURE GAUGE(S) TAG NO.:	# PG-32
PRESSURE GAUGE(S) RANGE:	0/200 PSIG
TEST PRESSURE:	63.6 PSIG
GAS USED:	NITROGEN
PROCEDURE USED:	☑ MTM-MP-1105
	☐ OTHER
RESULTS/COMMENTS:	HELD PRESSURE FOR 10 MINUTES NO LEAKS FOUND
OPERATOR:	Don Rudolph DATE: 12-16-04
	☑ ACCEPT
	☐ REJECT

Meyer Tool & Mfg., Inc.
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708 / 425-9080
FAX 708 / 425-2612

PNEUMATIC PRESSURE TEST REPORT

MTM JOB NO.:	00918
CUSTOMER:	LBNL
MTM DRAWING/ASSEMBLY/ITEM NO.:	25I151
COMPONENT SERIAL NUMBER :	Box "E"
COMPONENT DESCRIPTION:	HELIUM VESSEL ASSY
PRESSURE GAUGE(S) TAG NO.:	PG-17
PRESSURE GAUGE(S) RANGE:	0/200 psi
TEST PRESSURE:	63.6 psi
GAS USED:	NITROGEN
PROCEDURE USED:	☑ MTM-MP-1105 ☐ OTHER _____
RESULTS/COMMENTS:	NO LEAKS FOUND (AFTER BELLOWS REPLACEMENT)
OPERATOR:	Wayne E. Johnson DATE: 12-31-04 ☑ ACCEPT ☐ REJECT

TEST REPORT FORM TR-1105
REV. O

Meyer Tool & Mfg., Inc.
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708/425-9080
FAX: 708/425-2612

HELIUM MASS SPECTROMETER LEAK DETECTION TEST REPORT

MTM JOB NO.:	00918
CUSTOMER:	LBNL
MTM DRAWING/ASSEMBLY/ITEM NO.:	25I151
COMPONENT SERIAL NUMBER:	BOX E
COMPONENT DESCRIPTION:	HELIUM VESSEL ASSY
MSLD TAG NO.:	3029
CALIBRATED LEAK TAG NO.:	CL-1
SENSITIVITY (☑ MSLD ☐ SYSTEM):	INITIAL 3.81 -10 / FINAL 3.81 -10
TEST PERFORMED ON SCALE:	0 /100
INITIAL READING:	80 /100
FINAL READING:	80 /100
LEAK RATE (ATM CC/SEC)	
PROCEDURE USED:	☑ MTM-MP-1110 ☐ OTHER _____
RESULTS/COMMENTS: (NOTE: Record hood test time vs. MSLD reading in this section.)	NO LEAKS DETECTED AFTER BELLOWS REPLACEMENT
OPERATOR:	Wayne E. John DATE: 12-31-04
	☑ ACCEPT ☐ REJECT

TEST REPORT FORM TR-1110
REV. O

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708 / 425-9080
FAX 708 / 425-2612

PNEUMATIC PRESSURE TEST REPORT

MTM JOB NO.:	00918-0009
CUSTOMER:	LBNL
MTM DRAWING/ASSEMBLY/ITEM NO.:	
COMPONENT SERIAL NUMBER :	BOX "E"
COMPONENT DESCRIPTION:	PEEK SEALS
PRESSURE GAUGE(S) TAG NO.:	PG-34
PRESSURE GAUGE(S) RANGE:	0 - 15 PSI
TEST PRESSURE:	10 PSI
GAS USED:	NITROGEN
PROCEDURE USED:	☐ MTM-MP-1105 ☐ OTHER DROP FROM
RESULTS/COMMENTS:	10 PSI TO 9.15 PSI IN 2 MINUTES
OPERATOR:	Glenn Hardy DATE: 2/14/05 ☒ ACCEPT ☐ REJECT

TEST REPORT FORM TR-1105
REV. O

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PNEUMATIC PRESSURE TEST REPORT

MTM JOB NO.:	00918
CUSTOMER:	LBNL
MTM DRAWING/ASSEMBLY/ITEM NO.:	PEAK SEALS
COMPONENT SERIAL NUMBER :	BOX "E"
COMPONENT DESCRIPTION:	HTS LEADS (PEAK SEALS)
PRESSURE GAUGE(S) TAG NO.:	PG-34
PRESSURE GAUGE(S) RANGE:	0/15 PSIG
TEST PRESSURE:	10 PSIG
GAS USED:	NITROGEN
PROCEDURE USED:	☑ MTM-MP-1105 ☐ OTHER _____
RESULTS/COMMENTS:	MET CRITERIA. LOST 9/10 OF ONE POUND AFTER 2 MINUTES
OPERATOR:	Wayne E. John DATE: 2-15-05 ☑ ACCEPT ☐ REJECT

TEST REPORT FORM TR-1105
REV. O

Meyer Tool & Mfg., Inc.
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708/425-9080
FAX: 708/425-2612

HELIUM MASS SPECTROMETER LEAK DETECTION TEST REPORT

MTM JOB NO.:	00918-0009 OP160 STOP163
CUSTOMER:	LBNL
MTM DRAWING/ASSEMBLY/ITEM NO.:	251575
COMPONENT SERIAL NUMBER:	BOX "E"
COMPONENT DESCRIPTION:	LHE TANK ASSEMBLY
MSLD TAG NO.:	3069
CALIBRATED LEAK TAG NO.:	C-L-1
SENSITIVITY (☑ MSLD ☐ SYSTEM):	INITIAL 9.833×10^{-10} / FINAL 9.833×10^{-10}
TEST PERFORMED ON SCALE:	100
INITIAL READING:	30/100
FINAL READING:	3,000/10,000
LEAK RATE (ATM CC/SEC)	2.92×10^{-06} (LEAK SIZE)
PROCEDURE USED:	☑ MTM-MP-1110 ☐ OTHER FOUND THAT DFLX
RESULTS/COMMENTS: (NOTE: Record hood test time vs. MSLD reading in this section.)	S/N #23 HTS LEAD, HAS A 2.92×10^{-06} SIZE OF LEAK, PER ED NO NEED TO PIN POINT LEAK, ALL ELSE APPEARS TO BE LEAK TIGHT AT THIS LEVEL OF UNCERTAINTY
OPERATOR:	Glenn D. Moody DATE: 2/21/05

HTS LEAK WILL BE FROM ITE to ATMOSPHERE LEVEL DETECTED WITH IN LBNL ACCEPTANCE CRITERIA. NO OTHER LEAKS DETECTED, (HTS LEAD ISOLATED)

EDB
2/22/05

☑ ACCEPT ☐ REJECT

Meyer Tool & Mfg., Inc.
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708 / 425-9080
FAX 708 / 425-2612

COLD SHOCK TEST REPORT

MTM JOB NO.:	00918-0009
CUSTOMER:	LBNL
MTM DRAWING/ASSEMBLY/ITEM NO.:	25 I 575
COMPONENT SERIAL NUMBER :	BOX "E"
COMPONENT DESCRIPTION:	LHE TANK COVER PLATE WELDS, NEW WELDSON CROSS OVER LINE FROM
METHOD:	BUST DUCT TO BEAM LINE
	SPRAY
PROCEDURE USED:	☒ MTM-MP-1040
	☐ OTHER OK
RESULTS/COMMENTS:	
OPERATOR:	Glenn D Krecky DATE: 2/18/05

TEST REPORT FORM TR-1040
REV. O

Meyer Tool & Mfg., Inc.
4601 SOUTHWEST HWY., OAK LAWN, ILLINOIS 60453
708 / 425-9080
FAX 708 / 425-2612

PNEUMATIC PRESSURE TEST REPORT

MTM JOB NO.:	00918
CUSTOMER:	LBNL
MTM DRAWING/ASSEMBLY/ITEM NO.:	25I575
COMPONENT SERIAL NUMBER :	Box "E"
COMPONENT DESCRIPTION:	
PRESSURE GAUGE(S) TAG NO.:	PG-17
PRESSURE GAUGE(S) RANGE:	0/200 psig
TEST PRESSURE:	63.6 psig
GAS USED:	NITROGEN
PROCEDURE USED:	☑ MTM-MP-1105 ☐ OTHER
RESULTS/COMMENTS: 918-0009 OP160 STEP 16.2	PRESSURIZED BUS DUCT + LIQUID HELIUM VESSEL TOGETHER NO DEFECTS FOUND
OPERATOR:	Wayne E. [illegible] DATE: 2-18-05 ☑ ACCEPT ☐ REJECT

Piping and Flex Hose Piping and Wall Thickness

Meyer Tool & Mfg., Inc.
4601 SOUTHWEST HWY., OAK LAWN, ILLINOIS 60453
(708) 425-9080
FAX (708) 425-2612

CERTIFICATE OF CONFORMANCE

CUSTOMER: **LBNL**

P.O. #: **6704950**

DESCRIPTION: **DFBX-E Feed Box 24C394**

QTY.: **1**

MTM PROJECT #: **00918**

☒ Piping Spools and Flex Hose Size and Thickness

Certified by: _____

Date: 6/30/05

Weld Filler Metal-Piping Spools

R 308-L
11-8-04

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J. W. Harris Co., Inc.

4501 Quality Pl., Mason OH 45040

Certificate of Compliance

Attn: LOUIE
Sold to: WISCO

Date: 11/8/2004
P.O.#:
Fax No: 773-384-8846

Heat #: 4072801224
Item Number: 308LT50
Weight:

Description: 308L 3/32 X 36 S/S

Specifications:

AWS A5.9 ER308L

ASME SFA 5.9 Section II

CHEMICAL COMPOSITION LIMITS

ARSENIC		HYDROGEN		TANTALUM	
ANTIMONY		IRON		TITANIUM	
ALUMINUM		LEAD		TIN	
BISMUTH		LITHIUM		THORIA	
BERYLLIUM		MAGNESIUM		TUNGSTEN	
BORON		MOLYBDENUM	0.00-0.75	VANADIUM	
CARBON	0.00-0.03	MANGANESE	1.0-2.5	YTTRIUM	
CHROMIUM	19.5-22.0	SILICON	0.30-0.65	ZINC	
COPPER	0.00-0.75	PHOSPHORUS	0.00-0.03	ZIRCONIUM	
COBALT		SULFUR	0.00-0.03	REMAINDER	IRON
CADMIUM		NICKEL	9.0-11.0	OTHER	.5 TOTAL
NIOBIUM(Cb)		NITROGEN		WRC FN	
		SILVER			
		OXYGEN			

Single values are maximum unless otherwise specified.

SAFETY SILV, STAY SILV, STAY CLEAN, STAY BRITE & BRIDGIT ARE REGISTERED TRADEMARKS OF J.W. HARRIS CO., INC.

We certify that the items and/or materials listed above are in accordance with all applicable purchase specifications having passed our inspections as noted.

Barb Koetter
Certification Clerk

California 800-423-4486 fax 626-912-4272
Massachusetts 800-343-0543 fax 617-268-2742
Michigan 800-826-2484 fax 248-634-1910
Ohio 800-733-4043 fax 800-754-8778
Texas 800-852-8029 fax 713-644-1807

WELDING MATERIAL SALES
1340 REED RD
P.O. BOX 786
PHONE: (630)232-6421 FAX: (888)733-1512

CERTIFIED MATERIAL TEST REPORT

Alloy: ER308L
Specs: AWS-A5.9
Size: .045
Heat #: 17951
Lot #:

ER 308L
2-14-03

CHEMICAL ANALYSIS

C 0.0150	Mn 1.9600	Si 0.4700	S 0.0090	P 0.0180	Ni 10.200	Cr 19.650	Mo 0.0200
Cu 0.0500	Nb	Ti 0.0100	N 0.0600	Co 0.0600	Al 0.0060	Fe	B 0.0009
Z	As	Be	Zn	Mg	Ferrite (below)	Sn	V 0.1000
Zr	Sb						

The Ferrite values are an approximation only. **Nb=Nb+Ta

Ferrite – Delong 9.6
WRC – 1988 7.3
Ferrite – Shaeffler 8.9

TYPICAL RANGE CERTIFICATIONS:
Single values are maximums unless otherwise specified.

ACTUAL TESTING CERTIFICATIONS:
The test results shown in this report are correct to the best of our knowledge.

WELDING MATERIAL SALES
1340 REED RD
P.O. BOX 786
PHONE: (630)232-6421 FAX: (888)733-1512

CERTIFIED MATERIAL TEST REPORT

Alloy: ER308L
Specs: AWS-A5.9
Size: .045
Heat #: 17899
Lot #:

.045 x 36"
09-02-03

CHEMICAL ANALYSIS

C 0.0120	Mn 1.9000	Si 0.4000	S 0.0070	P 0.0150	Ni 10.080	Cr 19.800	Mo 0.0400
Cu 0.0400	Nb 0.0100	Ti 0.0100	N 0.0550	Co 0.0500	Al 0.0040	Fe	B 0.0009
Z	As	Be	Zn	Mg	Ferrite (below)	Sn	V 0.0800
Zr	Sb						

The Ferrite values are an approximation only. **Nb=Nb+Ta

Ferrite – Delong	7.6
WRC – 1988	9.2
Ferrite – Shaeffler	9.7

TYPICAL RANGE CERTIFICATIONS:
Single values are maximums unless otherwise specified.

ACTUAL TESTING CERTIFICATIONS:
The test results shown in this report are correct to the best of our knowledge.

Post-It® Fax Note 7671

Date 4/24	# of pages ▶ 1
To Louie	From Geri Lynn
Co./Dept.	Co. WMS
Phone #	Phone #
Fax # 773-384-8841	Fax #

(THU)APR 24 2003 12:21/ST. 12:17/NO. 6329497484 P 1

FROM WMS

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www.jwharris.com

J. W. Harris Co., Inc.

4501 Quality Pl., Mason OH 45040

Certificate of Compliance

Attn ATTN: LOUIE
Sold to:

Date: 10/9/2003
P.O.#:
Fax No: 773 384 8846

Heat #: 30620516
Item Number: 308LT30
Weight:
Description: 308L 1/16 X 36 S/S
Specifications:

AWS A5.9 ER308L

ASME SFA 5.9

CHEMICAL COMPOSITION LIMITS

ARSENIC		HYDROGEN		TANTALUM	
ANTIMONY		IRON		TITANIUM	
ALUMINUM		LEAD		TIN	
BISMUTH		LITHIUM		THORIA	
BERYLLIUM		MAGNESIUM		TUNGSTEN	
BORON		MOLYBDENUM	0.00-0.75	VANADIUM	
CARBON	0.00-0.03	MANGANESE	1.0-2.5	YTTRIUM	
CHROMIUM	19.5-22.0	SILICON	0.30-0.65	ZINC	
COPPER	0.00-0.75	PHOSPHORUS	0.00-0.03	ZIRCONIUM	
COBALT		SULFUR	0.00-0.03	REMAINDER	IRON
CADMIUM		NICKEL	9.0-11.0	OTHER	.5 TOTAL
NIOBIUM(Cb)		NITROGEN		WRC FN	
		SILVER			
		OXYGEN			

Single values are maximum unless otherwise specified.

We certify that the items and/or materials listed above are in accordance with all applicable purchase specifications having passed our inspections as noted.

Certification Clerk

SAFETY SILV, STAY SILV, STAY CLEAN, STAY BRITE & BRIDGIT ARE REGISTERED TRADEMARKS OF J.W. HARRIS CO., INC.

California 800-423-4486 fax 626-912-4272
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Michigan 800-826-2484 fax 248-634-1910
Ohio 800-733-4043 fax 800-754-8778
Texas 800-852-8029 fax 713-644-1807

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J. W. Harris Co., Inc.

4501 Quality Pl., Mason OH 45040

Certificate of Compliance

Sold to: WISCO

Date: 10/25/2004
P.O.#:
Fax No: 773-384-8846

40510516

Heat #: 40510516
Item Number: 308LT30
Weight:

Description: 308L 1/16 X 36 S/S

Specifications:

AWS A5.9 ER308L

ASME SFA 5.9 Section II

CHEMICAL COMPOSITION LIMITS

ARSENIC	
ANTIMONY	
ALUMINUM	
BISMUTH	
BERYLLIUM	
BORON	
CARBON	0.00-0.03
CHROMIUM	19.5-22.0
COPPER	0.00-0.75
COBALT	
CADMIUM	
NIOBIUM(Cb)	

HYDROGEN	
IRON	
LEAD	
LITHIUM	
MAGNESIUM	
MOLYBDENUM	0.00-0.75
MANGANESE	1.0-2.5
SILICON	0.30-0.65
PHOSPHORUS	0.00-0.03
SULFUR	0.00-0.03
NICKEL	9.0-11.0
NITROGEN	
SILVER	
OXYGEN	

TANTALUM	
TITANIUM	
TIN	
THORIA	
TUNGSTEN	
VANADIUM	
YTTRIUM	
ZINC	
ZIRCONIUM	
REMAINDER	IRON
OTHER	.5 TOTAL
WRC FN	

Single values are maximum unless otherwise specified.

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We certify that the items and/or materials listed above are in accordance with all applicable purchase specifications having passed our inspections as noted.

Paula Swanson
Certification Clerk

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Michigan 800-826-2484 fax 248-634-1910
Ohio 800-733-4043 fax 800-764-8[illegible]
Texas 800-852-8028 fax 713-614-[illegible]

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Harris Welco

4501 Quality Pl., Mason OH 45040

Certificate of Compliance

Attn: **LOUIE**
Sold to:

Date: 5/2/2002
P.O.#:
Fax No: 773-384-8846

Heat #: 20210216
Item Number: 308LT30
Weight:

Description: 308L 1/16 X 36 S/S

Specifications:

AWS A5.9 ER308L

ASME SFA 5.9

CHEMICAL COMPOSITION LIMITS

ARSENIC		HYDROGEN		TANTALUM	
ANTIMONY		IRON		TITANIUM	
ALUMINUM		LEAD		TIN	
BISMUTH		LITHIUM		THORIA	
BERYLLIUM		MAGNESIUM		TUNGSTEN	
BORON		MOLYBDENUM	0.00-0.75	VANADIUM	
CARBON	0.00-0.03	MANGANESE	1.0-2.5	YTTRIUM	
CHROMIUM	19.5-22.0	SILICON	0.30-0.65	ZINC	
COPPER	0.00-0.75	PHOSPHORUS	0.00-0.03	ZIRCONIUM	
COBALT		SULFER	0.00-0.03	REMAINDER	IRON
CADMIUM		NICKEL	9.0-11.0	OTHER	.5 TOTAL
NIOBIUM		NITROGEN		WRC FN	
		SILVER			
		OXYGEN			

Single values are maximum unless otherwise specified.

We certify that the items and/or materials listed above are in accordance with all applicable purchase specifications having passed our inspections as noted.

Certification Clerk

SAFETY SILV, STAY SILV, STAY CLEAN, STAY BRITE & BRIDGIT ARE REGISTERED TRADEMARKS OF J.W. HARRIS CO., INC.

Alabama	800-852-7485	fax 205-497-6465
California	800-423-4486	fax 626-912-4272
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Michigan	800-826-2484	fax 248 634-1910
North Carolina	800-438-6476	fax 704-739-2801
Ohio	800-733-4043	fax 800-754-8778
Texas	800-852-8029	fax 713-644-1807

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Harris Welco

4501 Quality Pl., Mason OH 45040

Certificate of Compliance

Attn: LOUIE
Sold to: AWISCO

Date: 10/11/2002
P.O.#:
Fax No: 773-384-8846

Heat #: Y3070
Item Number: 308LT30
Weight:

Description: 308L 1/16 X 36 S/S

Specifications:

AWS A5.9 ER308L

ASME SFA 5.9

CHEMICAL COMPOSITION LIMITS

ARSENIC		HYDROGEN		TANTALUM	
ANTIMONY		IRON		TITANIUM	
ALUMINUM		LEAD		TIN	
BISMUTH		LITHIUM		THORIA	
BERYLLIUM		MAGNESIUM		TUNGSTEN	
BORON		MOLYBDENUM	0.00-0.75	VANADIUM	
CARBON	0.00-0.03	MANGANESE	1.0-2.5	YTTRIUM	
CHROMIUM	19.5-22.0	SILICON	0.30-0.65	ZINC	
COPPER	0.00-0.75	PHOSPHORUS	0.00-0.03	ZIRCONIUM	
COBALT		SULFER	0.00-0.03	REMAINDER	IRON
CADMIUM		NICKEL	9.0-11.0	OTHER	.5 TOTAL
NIOBIUM		NITROGEN		WRC FN	
		SILVER			
		OXYGEN			

Single values are maximum unless otherwise specified.

We certify that the items and/or materials listed above are in accordance with all applicable purchase specifications having passed our inspections as noted.

Angela Miller
Certification Clerk

SAFETY SILV, STAY SILV, STAY CLEAN, STAY BRITE & BRIDGIT ARE REGISTERED TRADEMARKS OF J.W. HARRIS CO., INC.

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Massachusetts	800-343-0543	fax 617-268-2742
Michigan	800-826-2484	fax 248-634-1910
North Carolina	800-438-6476	fax 704-739-2801
Ohio	800-733-4043	fax 800-754-8778
Texas	800-852-8029	fax 713-644-1807

Piping and Flex Hose Free of Obstruction

Meyer Tool & Mfg., Inc.
4601 SOUTHWEST HWY., OAK LAWN, ILLINOIS 60453
(708) 425-9080
FAX (708) 425-2612

CERTIFICATE OF CONFORMANCE

CUSTOMER: **LBNL**

P.O. #: **6704950**

DESCRIPTION: **DFBX-E Feed Box 24C394**

QTY.: **1**

MTM PROJECT #: **00918**

☒ Piping Spools and Flex Hose Free of Obstruction

Certified by: Edward C. Dannen

Date: 6/30/05

Pipe Clearance Inspection

Meyer Tool & Mfg., Inc.
4601 SOUTHWEST HWY., OAK LAWN, ILLINOIS 60453
(708) 425-9080
FAX (708) 425-2612

CERTIFICATE OF CONFORMANCE

CUSTOMER: **LBNL**

P.O. #: **6704950**

DESCRIPTION: **DFBX-E Feed Box 24C394**

QTY.: **1**

MTM PROJECT #: **00918**

☒ Piping Spools Clearance-Pipings Spools were visually inspected. Meyer and Fermilab personnel reviewed all clearances less than 12 mm. These clearances were all corrected through repositioning or G10 stand offs.

Certified by: _____

Date: 6/30/05