

November 02, 2017

Attention: Tanya Francis
TECHNICAL STANDARDS & SAFETY AUTHORITY
345 CARLINGVIEW DRIVE
TORONTO, ON M9W 6N9

Email: tfrancis@tssa.org

The design submission, tracking number 2017-06572, originally received on October 19, 2017 was surveyed and accepted for registration as follows:

CRN : 0F19115.52

Accepted on: November 02, 2017

Reg Type: ADDITION TO ACC. FITTING

Expiry Date: January 25, 2027

Drawing No. : SCOPE OF CRN REVISION

Fitting type: LEVEL TRANSMITTER

Design registered in the name of : ABB INC

The registration is conditional on your compliance with the following notes:

As indicated on AB-41 Statutory Declaration form and submitted documentation, the code of construction are ASME B31.1 and ASME B31.3.

This registration is valid only for fittings fabricated at the location(s) covered by the QC certificate attached to the accepted AB-41 Statutory Declaration form.

This registration is valid only until the indicated expiry date and only if the Manufacturer maintains a valid quality management system approved by an acceptable third-party agency until that date.

Should the approval of the quality management system lapse before the expiry date indicated above, this registration shall become void.

An invoice covering survey and registration fees will be forwarded from our Revenue Accounts.

Enclosed are stamped prints for your reference.

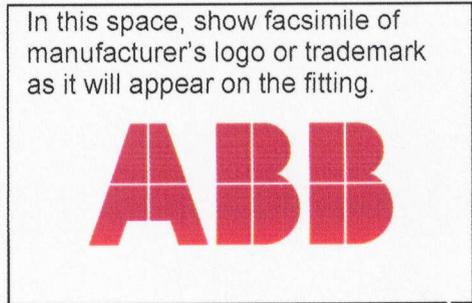
Sincerely,



LIU, XING, P. Eng.
DOP Cert. No. D00008861

STATUTORY DECLARATION Registration of Fittings

I, Mr. Steve Hunsberger, Manager Quality Assurance of ABB Inc. located at 125 East County Line Road, Warminster, PA, 18974 USA



do solemnly declare that the fittings listed hereunder, which are subject to the Safety Codes Act (check one)

- comply with the requirements of ASME B31.1 and B31.3 Standards which specifies the dimensions, materials of construction, pressure/temperature ratings and identification marking of the fittings, or are not covered by the provisions of a recognized North American standard and are therefore manufactured to comply with...

I further declare that the manufacture of these fittings is controlled by a quality control program which has been verified by the following authority, DNV GL -- Business Assurance s being suitable for the manufacture of these fittings to the stated standard.

Category F (brief description of fittings)

In support of this application, the following information, calculations and/or test data are attached: LMT Report 0119-0008-SAR-0001; DS/LMT100-EN and DS/LMT300-EN; Drawings 3KXL140100G0001, 3KXL140300G0001

DECLARED before me at Warminster Pa in the county of Bucks this 16 day of June, 2017

Notary Public seal for Christine Furey, Warminster Township, Bucks County, My Commission Expires April 20, 2019. Signature of applicant.

For ABSA Office Use Only:

NOTES:

To the best of my knowledge and belief, the application meets the requirements of the Safety Codes Act and CSA Standard B51, Clause 4.2, and is accepted for registration in Category F

Registration Number: OF 19115.52 (Signature of the Administrator/SCO)

Date Registered: 2017-11-02 Expiry Date: 2027-01-25

SCOPE OF CRN REVISION

ORIGINAL CRN: 0F19115.5C
ABB MODELS REGISTERED: LMT100
REASON FOR CRN REVISION: Original manufacturing location will cease production at the end of the year. Production is being moved to the following ABB location:

125 E. County Line Road
Warminster, PA, USA
18974-4995

There is no change to the registered design; this is a change in manufacturing location only. The CRN needs to be revised such that the new manufacturing location has been added to the CRN and the owner of the CRN is changed to this location as well.

| | |
|--|--|
| ABSA | |
| SAFETY CODES ACT - PROVINCE OF ALBERTA | |
| REGISTRATION OF FITTINGS | |
| 0F19115.52 | |
| REGISTRATION NO. | |
| DWG. NO. or CAT. NO. | Scope of CRN Revision |
| TYPE OF FITTINGS | Transmitter |
| 2017-11-02 | INITIALS <i>xl</i> |
| Date | XING LIU, P.Eng. DESIGN SURVEY ENGINEER |

TECHNICAL STANDARDS & SAFETY AUTHORITY
345 CARLINGVIEW DRIVE
TORONTO ON M9W 6N9

Date: November 8, 2017
Account #: 35231
Journal #: 69271

Attn: TANYA FRANCIS

Re: Application for Design Registration

The design, as detailed in your, TSSA SR# 2175876, for a Fitting is accepted for registration as follows:

Registered To: ABB INC

CRN: 0F19115.51

Drawing #: 3KXL140100G001 sht 1/3

Drawing Revision: NC

Conditions Of Registration:

LMT100 Magnetostrictive Level Transmitter. Update of reg'n party & mfg location as per att'd scope sheet.

This design was registered based on a technical review performed by the province of initial registration in accordance with the Association of Chief Inspectors policy on reciprocal recognition of design review.

Reviewer's Notes:

No change in design or scope of registration. As required by CSA B51 4.2.1, this registration expires on January 25, 2027. This CRN is valid until the expiry date as long as the Manufacturer maintains a valid quality control program verified by an acceptable third-party agency until that date. Should the certification of the quality control program lapse before the expiry date, this registration shall become void.

Contact me if you have any questions. The invoice for registration will be forwarded under separate cover.

SHARON PETERS

boiler.designregistration@technicalsaftybc.ca
Design Administration

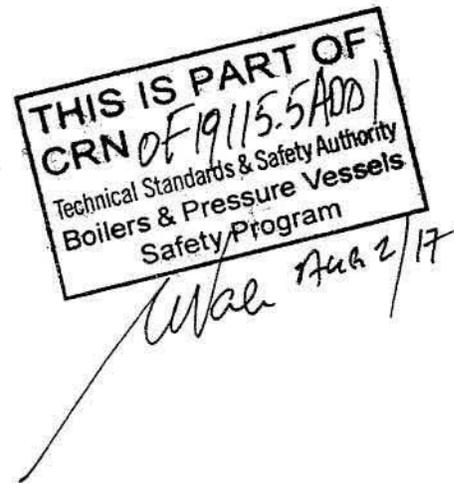
cc:

SCOPE OF CRN REVISION

ORIGINAL CRN: OF19115.5C
ABB MODELS REGISTERED: LMT100
REASON FOR CRN REVISION: Original manufacturing location will cease production at the end of the year. Production is being moved to the following ABB location:

125 E. County Line Road
Warminster, PA, USA
18974-4995

There is no change to the registered design; this is a change in manufacturing location only. The CRN needs to be revised such that the new manufacturing location has been added to the CRN and the owner of the CRN is changed to this location as well.



UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS

NEW BRUNSWICK
NUNAVUT

NOVA SCOTIA
YUKON

PRINCE EDWARD ISLAND
NORTHWEST TERRITORIES

NEWFOUNDLAND AND LABRADOR

| | |
|--|---|
| MANUFACTURERS NAME: ABB Inc. | |
| MANUFACTURERS ADDRESS: 125 East County Line Road, Warminster, PA, 18974 USA | |
| PLANT LOCATIONS: Pennsylvania, USA | |
| <p>CATEGORY OF FITTINGS TO BE REGISTERED. CIRCLE ONE CATEGORY ONLY</p> <p>A Pipe fittings, including couplings, tees, elbows, Ys, plugs, unions, pipe caps, or reducers B Flanges: all flanges C Valves: all line valves D Expansion joints, flexible connections, and hose assemblies: all types E Strainers, filters, separators, and steam traps <input checked="" type="checkbox"/> F Measuring devices, including pressure gauges, level gauges, sight glasses, levels, or pressure transmitters G Certified capacity-rated pressure relief devices acceptable as primary over pressure protection on boilers, pressure vessels, piping and fusible plugs H Pressure retaining components that do not fall into one of the above categories N Nuclear components: Class 1 <input type="checkbox"/> Class 2 <input type="checkbox"/> Class 3 <input type="checkbox"/> (Meeting AECB or ASME requirements)</p> | <p>TITLE OF THE STANDARD OF CONSTRUCTION:</p> <p>ASME B31.1 and B31.3 Standards</p> |
| <p>SHOW MANUFACTURERS NAME, TRADEMARK, OR LOGO AS IT WILL APPEAR ON THE PRODUCT.</p> <p align="center">ABB</p> | <p>TYPE OF CONSTRUCTION</p> <p>FORGED <input type="checkbox"/> WELDED <input type="checkbox"/> WROUGHT <input type="checkbox"/> CAST <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> DESCRIBE OTHER: Compression Fittings</p> |
| <p>LIST OF SUPPORTING DOCUMENTATION AND IDENTIFICATION OF THE ACTUAL ITEMS TO BE REGISTERED:</p> <p>LMT Report 0119-0008-SAR-0001; DS/LMT100-EN and DS/LMT300-EN; Drawings 3KXL140100G0001, 3KXL140300G0001</p> | |

DECLARATION:
 I Mr. Steve Hunsberger (see note 3) employed by ABB Inc. and being the person having full authority and responsibility for the quality of the end product do solemnly declare that the information contained in this form is true and to the best of my knowledge represents the product for which registration is sought. The dimensions, materials of construction, pressure temperature ratings, and identification markings are in accordance with the herein named standards. I further declare that the manufacture of these fittings is regulated by a Quality Control Program which extends to each plant where fabrication occurs in whole or in part and has been verified by DNV GL -- Business Assurance as being suitable for that purpose and I make this solemn declaration conscientiously believing it to be true, and knowing that it is of the same force and effect as if made under oath.

Signature of Declarer: [Signature]
 Declared before me at WARMINSTER PA
 This 16 day of JUNE AD 2017
 Commissioner of Oaths or Notary Public: (sign) [Signature]
 (Affix Official seal to the right)

COMMONWEALTH OF PENNSYLVANIA
 U S E THIS NOTARIAL SEAL FOR THE
CHRISTINE FUREY, Notary Public
 Warminster Township, Bucks County
 My Commission Expires April 20, 2019

This space for Regulatory Authority use

This registration must be revalidated after ten (10) years from the date of acceptance.

CRN: 0F19115.5 ADD1
 FID#: 15499

Notes:
 1. All fittings shall be registered in the name of the Manufacturer.
 2. Each category shall be supported with two Statutory Declaration forms and one copy of supporting documentation.
 3. The declaration shall be made by the person having full authority and responsibility for the quality of the end product.
 4. Quality control programs shall be resubmitted for validation at a maximum interval of five (5) years.

ACCEPTED
 PROVINCE OF PRINCE EDWARD ISLAND
 COMMUNITIES, LAND & ENVIRONMENT
 C.R.N. 0F19115.59 ADD1
 DATE: Oct 27 2017
[Signature]
INSPECTION SERVICES SECTION
BOILER/PRESSURE VESSEL BRANCH

NEW BRUNSWICK
NUNAVUT

NOVA SCOTIA
YUKON

PRINCE EDWARD ISLAND
NORTHWEST TERRITORIES

NEWFOUNDLAND AND LABRADOR

| | |
|---|---|
| MANUFACTURERS NAME: ABB Inc. | |
| MANUFACTURERS ADDRESS: 125 East County Line Road, Warminster, PA, 18974 USA | |
| PLANT LOCATIONS: Pennsylvania, USA | |
| CATEGORY OF FITTINGS TO BE REGISTERED. CIRCLE ONE CATEGORY ONLY A Pipe fittings, including couplings, tees, elbows, Ys, plugs, unions, pipe caps, or reducers B Flanges: all flanges C Valves: all line valves D Expansion joints, flexible connections, and hose assemblies: all types E Strainers, filters, separators, and steam traps <input checked="" type="checkbox"/> F Measuring devices, including pressure gauges, level gauges, sight glasses, levels, or pressure transmitters G Certified capacity-rated pressure relief devices acceptable as primary over pressure protection on boilers, pressure vessels, piping and fusible plugs H Pressure retaining components that do not fall into one of the above categories N Nuclear components: Class 1 <input type="checkbox"/> Class 2 <input type="checkbox"/> Class 3 <input type="checkbox"/> . (Meeting AECB or ASME requirements) | TITLE OF THE STANDARD OF CONSTRUCTION ASME B31.1 and B31.3 Standards |
| SHOW MANUFACTURERS NAME, TRADEMARK, OR LOGO AS IT WILL APPEAR ON THE PRODUCT  | TYPE OF CONSTRUCTION FORGED <input type="checkbox"/> WELDED <input type="checkbox"/> WROUGHT <input type="checkbox"/> CAST <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> DESCRIBE OTHER: Compression Fittings |
| LIST OF SUPPORTING DOCUMENTATION AND IDENTIFICATION OF THE ACTUAL ITEMS TO BE REGISTERED: LMT Report 0119-0008-SAR-0001; DS/LMT100-EN and DS/LMT300-EN; Drawings 3KXL140100G0001, 3KXL140300G0001 | |

DECLARATION:

I Mr. Steve Hunsberger (see note 3) employed by ABB Inc. and being the person having full authority and responsibility for the quality of the end product do solemnly declare that the information contained in this form is true and to the best of my knowledge represents the product for which registration is sought. The dimensions, materials of construction, pressure temperature ratings, and identification markings are in accordance with the herein named standards. I further declare that the manufacture of these fittings is regulated by a Quality Control Program which extends to each plant where fabrication occurs in whole or in part and has been verified by DNV GL - Business Assurance as being suitable for that purpose and I make this solemn declaration conscientiously believing it to be true, and knowing that it is of the same force and effect as if made under oath.

Signature of Declarer:

Declared before me at

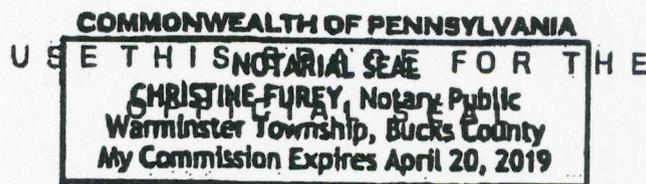
WARMINSTER PA

This 16 day of

JUNE AD 2017

Commissioner of Oaths or Notary Public: (sign)

(Affix Official seal to the right)



This space for Regulatory Authority use

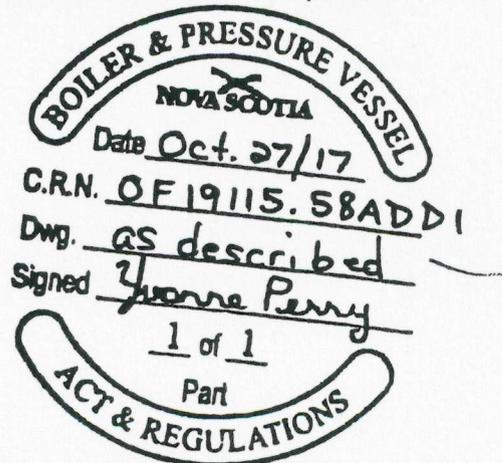
This registration must be revalidated after ten (10) years from the date of acceptance.

CRN: OF19115.5 ADD1

FID#: 15499

Notes:

- All fittings shall be registered in the name of the Manufacturer.
- Each category shall be supported with two Statutory Declaration forms and one copy of supporting documentation.
- The declaration shall be made by the person having full authority and responsibility for the quality of the end product.
- Quality control programs shall be resubmitted for validation at a maximum interval of five (5) years.



UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS

NEW BRUNSWICK
NUNAVUT

NOVA SCOTIA
YUKON

PRINCE EDWARD ISLAND
NORTHWEST TERRITORIES

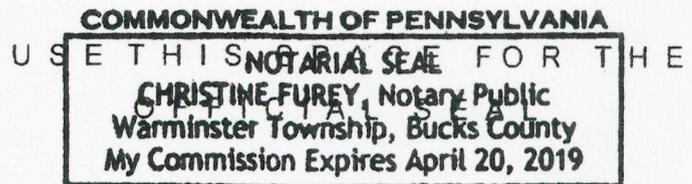
NEWFOUNDLAND AND LABRADOR

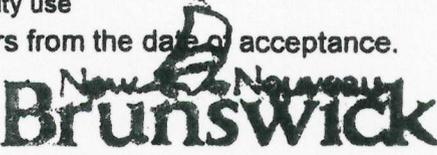
| | |
|--|---|
| MANUFACTURERS NAME: ABB Inc. | |
| MANUFACTURERS ADDRESS: 125 East County Line Road, Warminster, PA, 18974 USA | |
| PLANT LOCATIONS: Pennsylvania, USA | |
| <p align="center">CATEGORY OF FITTINGS TO BE REGISTERED. CIRCLE ONE CATEGORY ONLY</p> <p>A Pipe fittings, including couplings, tees, elbows, Ys, plugs, unions, pipe caps, or reducers B Flanges: all flanges C Valves: all line valves D Expansion joints, flexible connections, and hose assemblies: all types E Strainers, filters, separators, and steam traps <input checked="" type="checkbox"/> F Measuring devices, including pressure gauges, level gauges, sight glasses, levels, or pressure transmitters G Certified capacity-rated pressure relief devices acceptable as primary over pressure protection on boilers, pressure vessels, piping and fusible plugs H Pressure retaining components that do not fall into one of the above categories N Nuclear components: Class 1 <input type="checkbox"/> Class 2 <input type="checkbox"/> Class 3 <input type="checkbox"/>, (Meeting AECB or ASME requirements)</p> | <p align="center">TITLE OF THE STANDARD OF CONSTRUCTION</p> <p>ASME B31.1 and B31.3 Standards</p> |
| <p align="center">SHOW MANUFACTURERS NAME, TRADEMARK, OR LOGO AS IT WILL APPEAR ON THE PRODUCT</p> <div align="center" style="font-size: 2em; font-weight: bold; margin: 10px 0;">  </div> | <p align="center">TYPE OF CONSTRUCTION</p> <p>FORGED <input type="checkbox"/> WELDED <input type="checkbox"/> WROUGHT <input type="checkbox"/> CAST <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> DESCRIBE OTHER: Compression Fittings</p> |
| <p>LIST OF SUPPORTING DOCUMENTATION AND IDENTIFICATION OF THE ACTUAL ITEMS TO BE REGISTERED:</p> <p>LMT Report 0119-0008-SAR-0001; DS/LMT100-EN and DS/LMT300-EN; Drawings 3KXL140100G0001, 3KXL140300G0001</p> | |

DECLARATION:

I Mr. Steve Hunsberger (see note 3) employed by ABB Inc. and being the person having full authority and responsibility for the quality of the end product do solemnly declare that the information contained in this form is true and to the best of my knowledge represents the product for which registration is sought. The dimensions, materials of construction, pressure temperature ratings, and identification markings are in accordance with the herein named standards. I further declare that the manufacture of these fittings is regulated by a Quality Control Program which extends to each plant where fabrication occurs in whole or in part and has been verified by DNV GL -- Business Assurance as being suitable for that purpose and I make this solemn declaration conscientiously believing it to be true, and knowing that it is of the same force and effect as if made under oath.

Signature of Declarer: [Signature]
 Declared before me at WARMINSTER PA
 This 16 day of JUNE AD 2017
 Commissioner of Oaths or Notary Public: (sign) [Signature]
 (Affix Official seal to the right)



| | |
|--|--|
| <p align="center">This space for Regulatory Authority use</p> <p align="center">This registration must be revalidated after ten (10) years from the date of acceptance.</p> <p>CRN: <u>OF19115.5 ADD1</u></p> <p>FID#: <u>15499</u></p> <p>Notes: 1. All fittings shall be registered in the name of the Manufacturer. 2. Each category shall be supported with two Statutory Declaration forms and one copy of supporting documentation. 3. The declaration shall be made by the person having full authority and responsibility for the quality of the end product. 4. Quality control programs shall be resubmitted for validation at a maximum interval of five (5) years.</p> | <p align="center">  DEPT OF PUBLIC SAFETY BOILER & PRESSURE VESSEL ACT </p> <p align="center">REGISTRATION ONLY</p> <p>CRN: <u>OF19115.57 Add1</u></p> <p>EXAMINER: <u>[Signature]</u> for CHIEF BOILER INSPECTOR</p> |
|--|--|

DATE: 10/27/2017

BLRs PVs
 FITTINGS COMPONENTS

UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS

NEW BRUNSWICK
NUNAVUT

NOVA SCOTIA
YUKON

PRINCE EDWARD ISLAND
NORTHWEST TERRITORIES

NEWFOUNDLAND AND LABRADOR

| | |
|--|---|
| MANUFACTURERS NAME: <u>ABB Inc.</u> | |
| MANUFACTURERS ADDRESS: <u>125 East County Line Road, Warminster, PA, 18974 USA</u> | |
| PLANT LOCATIONS: <u>Pennsylvania, USA</u> | |
| <p align="center">CATEGORY OF FITTINGS TO BE REGISTERED. CIRCLE ONE CATEGORY ONLY</p> <p>A Pipe fittings, including couplings, tees, elbows, Ys, plugs, unions, pipe caps, or reducers B Flanges: all flanges C Valves: all line valves D Expansion joints, flexible connections, and hose assemblies: all types E Strainers, filters, separators, and steam traps <input checked="" type="checkbox"/> F Measuring devices, including pressure gauges, level gauges, sight glasses, levels, or pressure transmitters G Certified capacity-rated pressure relief devices acceptable as primary over pressure protection on boilers, pressure vessels, piping and fusible plugs H Pressure retaining components that do not fall into one of the above categories N Nuclear components: Class 1 <input type="checkbox"/> Class 2 <input type="checkbox"/> Class 3 <input type="checkbox"/>. (Meeting AECB or ASME requirements)</p> | <p align="center">TITLE OF THE STANDARD OF CONSTRUCTION</p> <p align="center">ASME B31.1 and B31.3 Standards</p> |
| <p align="center">SHOW MANUFACTURERS NAME, TRADEMARK, OR LOGO AS IT WILL APPEAR ON THE PRODUCT</p> <div align="center" style="font-size: 2em; font-weight: bold; letter-spacing: 0.5em;">  </div> | <p align="center">TYPE OF CONSTRUCTION</p> <p>FORGED <input type="checkbox"/> WELDED <input type="checkbox"/> WROUGHT <input type="checkbox"/> CAST <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> DESCRIBE OTHER: Compression Fittings</p> |
| <p align="center">LIST OF SUPPORTING DOCUMENTATION AND IDENTIFICATION OF THE ACTUAL ITEMS TO BE REGISTERED:</p> <p>LMT Report 0119-0008-SAR-0001; DS/LMT100-EN and DS/LMT300-EN; Drawings 3KXL140100G0001, 3KXL140300G0001</p> | |

DECLARATION:

I Mr. Steve Hunsberger (see note 3) employed by ABB Inc. and being the person having full authority and responsibility for the quality of the end product do solemnly declare that the information contained in this form is true and to the best of my knowledge represents the product for which registration is sought. The dimensions, materials of construction, pressure temperature ratings, and identification markings are in accordance with the herein named standards. I further declare that the manufacture of these fittings is regulated by a Quality Control Program which extends to each plant where fabrication occurs in whole or in part and has been verified by DNV GL - Business Assurance as being suitable for that purpose and I make this solemn declaration conscientiously believing it to be true, and knowing that it is of the same force and effect as if made under oath.

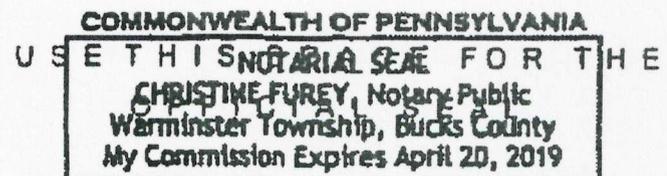
Signature of Declarer: [Signature]

Declared before me at WARMINSTER PA

This 16 day of JUNE AD 2017

Commissioner of Oaths or Notary Public: (sign) [Signature]

(Affix Official seal to the right)



| | |
|--|--|
| This space for Regulatory Authority use This registration must be revalidated after ten (10) years from the date of acceptance. | |
| CRN: <u>0F19115.5 ADD1</u> FID#: <u>15499</u> | Newfoundland Labrador Service NL Registered <u>0F19115.50 ADD.1</u> Date <u>17/10/27</u> Engineering and Inspection Services Registered <u>[Signature]</u> |
| <p>Notes:</p> <ol style="list-style-type: none"> All fittings shall be registered in the name of the Manufacturer. Each category shall be supported with two Statutory Declaration forms and one copy of supporting documentation. The declaration shall be made by the person having full authority and responsibility for the quality of the end product. Quality control programs shall be resubmitted for validation at a maximum interval of five (5) years. | UNDER THE AUTHORITY OF THE PUBLIC SAFETY ACT AND THE BOILER, PRESSURE VESSEL AND COMPRESSED GAS REGULATIONS |

UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS

NEW BRUNSWICK
NUNAVUT

NOVA SCOTIA
YUKON

PRINCE EDWARD ISLAND
NORTHWEST TERRITORIES

NEWFOUNDLAND AND LABRADOR

| | |
|--|---|
| MANUFACTURERS NAME: <u>ABB Inc.</u> | |
| MANUFACTURERS ADDRESS: <u>125 East County Line Road, Warminster, PA, 18974 USA</u> | |
| PLANT LOCATIONS: <u>Pennsylvania, USA</u> | |
| <p align="center">CATEGORY OF FITTINGS TO BE REGISTERED. CIRCLE ONE CATEGORY ONLY</p> <p>A Pipe fittings, including couplings, tees, elbows, Ys, plugs, unions, pipe caps, or reducers B Flanges: all flanges C Valves: all line valves D Expansion joints, flexible connections, and hose assemblies: all types E Strainers, filters, separators, and steam traps <input checked="" type="checkbox"/> F Measuring devices, including pressure gauges, level gauges, sight glasses, levels, or pressure transmitters G Certified capacity-rated pressure relief devices acceptable as primary over pressure protection on boilers, pressure vessels, piping and fusible plugs H Pressure retaining components that do not fall into one of the above categories N Nuclear components: Class 1 <input type="checkbox"/> Class 2 <input type="checkbox"/> Class 3 <input type="checkbox"/>, (Meeting AECB or ASME requirements)</p> | <p align="center">TITLE OF THE STANDARD OF CONSTRUCTION</p> <p align="center">ASME B31.1 and B31.3 Standards</p> |
| <p>SHOW MANUFACTURERS NAME, TRADEMARK, OR LOGO AS IT WILL APPEAR ON THE PRODUCT</p> <div align="center" style="font-size: 2em; font-weight: bold; margin: 10px 0;">  </div> | <p align="center">TYPE OF CONSTRUCTION</p> <p>FORGED <input type="checkbox"/> WELDED <input type="checkbox"/> WROUGHT <input type="checkbox"/> CAST <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> DESCRIBE OTHER: Compression Fittings</p> |
| <p>LIST OF SUPPORTING DOCUMENTATION AND IDENTIFICATION OF THE ACTUAL ITEMS TO BE REGISTERED:</p> <p>LMT Report 0119-0008-SAR-0001; DS/LMT100-EN and DS/LMT300-EN; Drawings 3KXL140100G0001, 3KXL140300G0001</p> | |

DECLARATION:

I Mr. Steve Hunsberger (see note 3) employed by ABB Inc. and being the person having full authority and responsibility for the quality of the end product do solemnly declare that the information contained in this form is true and to the best of my knowledge represents the product for which registration is sought. The dimensions, materials of construction, pressure temperature ratings, and identification markings are in accordance with the herein named standards. I further declare that the manufacture of these fittings is regulated by a Quality Control Program which extends to each plant where fabrication occurs in whole or in part and has been verified by DNV GL -- Business Assurance as being suitable for that purpose and I make this solemn declaration conscientiously believing it to be true, and knowing that it is of the same force and effect as if made under oath.

Signature of Declarer: [Signature]

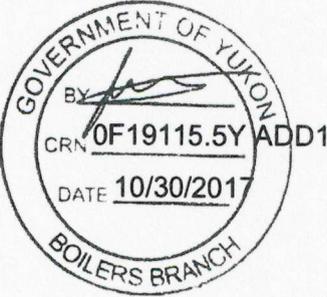
Declared before me at WARMINSTER PA

This 16 day of JUNE AD 2017

Commissioner of Oaths or Notary Public: (sign) [Signature]

(Affix Official seal to the right)

COMMONWEALTH OF PENNSYLVANIA
 USE THIS NOTARIAL SEAL FOR THE
CHRISTINE FUREY, Notary Public
 Warminster Township, Bucks County
 My Commission Expires April 20, 2019

| | |
|---|---|
| This space for Regulatory Authority use This registration must be revalidated after ten (10) years from the date of acceptance. | |
| CRN: <u>OF19115.5 ADD1</u> | |
| FID#: <u>15499</u> | |
| Notes: |  |
| 1. All fittings shall be registered in the name of the Manufacturer. 2. Each category shall be supported with two Statutory Declaration forms and one copy of supporting documentation. 3. The declaration shall be made by the person having full authority and responsibility for the quality of the end product. 4. Quality control programs shall be resubmitted for validation at a maximum interval of five (5) years. | |

UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS

NEW BRUNSWICK
NUNAVUT

NOVA SCOTIA
YUKON

PRINCE EDWARD ISLAND
NORTHWEST TERRITORIES

NEWFOUNDLAND AND LABRADOR

| | |
|--|---|
| MANUFACTURERS NAME: <u>ABB Inc.</u> | |
| MANUFACTURERS ADDRESS: <u>125 East County Line Road, Warminster, PA, 18974 USA</u> | |
| PLANT LOCATIONS: <u>Pennsylvania, USA</u> | |
| <p align="center">CATEGORY OF FITTINGS TO BE REGISTERED. CIRCLE ONE CATEGORY ONLY</p> <p>A Pipe fittings, including couplings, tees, elbows, Ys, plugs, unions, pipe caps, or reducers B Flanges: all flanges C Valves: all line valves D Expansion joints, flexible connections, and hose assemblies: all types E Strainers, filters, separators, and steam traps <input checked="" type="checkbox"/> F Measuring devices, including pressure gauges, level gauges, sight glasses, levels, or pressure transmitters G Certified capacity-rated pressure relief devices acceptable as primary over pressure protection on boilers, pressure vessels, piping and fuel gas plugs H Pressure retaining components that do not fall into one of the above categories N Nuclear components: Class 1 <input type="checkbox"/> Class 2 <input type="checkbox"/> Class 3 <input type="checkbox"/> (Meeting AECB or ASME requirements)</p> | <p align="center">TITLE OF THE STANDARD OF CONSTRUCTION</p> <p align="center">ASME B31.1 and B31.3 Standards</p> |
| <p align="center">SHOW MANUFACTURERS NAME, TRADEMARK, OR LOGO AS IT WILL APPEAR ON THE PRODUCT</p> <p align="center"></p> | <p align="center">TYPE OF CONSTRUCTION</p> <p>FORGED <input type="checkbox"/> WELDED <input type="checkbox"/> WROUGHT <input type="checkbox"/> CAST <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> DESCRIBE OTHER: Compression Fittings</p> |
| <p align="center">LIST OF SUPPORTING DOCUMENTATION AND IDENTIFICATION OF THE ACTUAL ITEMS TO BE REGISTERED:</p> <p>LMT Report 0119-0008-SAR-0001; DS/LMT100-EN and DS/LMT300-EN; Drawings 3KXL140100G0001, 3KXL140300G0001</p> | |

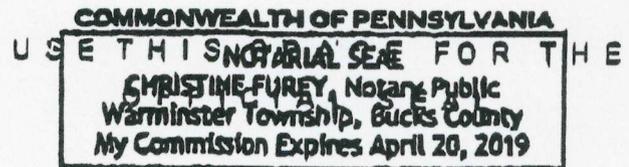
DECLARATION:

I Mr. Steve Hunsberger (see note 3) employed by ABB Inc. and being the person having full authority and responsibility for the quality of the end product do solemnly declare that the information contained in this form is true and to the best of my knowledge represents the product for which registration is sought. The dimensions, materials of construction, pressure temperature ratings, and identification markings are in accordance with the herein named standards. I further declare that the manufacture of these fittings is regulated by a Quality Control Program which extends to each plant where fabrication occurs in whole or in part and has been verified by DNV GL - Business Assurance as being suitable for that purpose and I make this solemn declaration conscientiously believing it to be true, and knowing that it is of the same force and effect as if made under oath.

Signature of Declarer: [Signature]

Declared before me at WARMINSTER PA
 This 16 day of JUNE AD 2017

Commissioner of Oaths or Notary Public: (sign) [Signature]
 (Affix Official seal to the right)



| | |
|--|--|
| <p align="center">This space for Regulatory Authority use</p> <p align="center">This registration must be revalidated after ten (10) years from the date of acceptance.</p> <p>CRN: <u>0F19115.5 ADD1</u></p> <p>FID#: <u>15499</u></p> <p>Notes: 1. All fittings shall be registered in the name of the Manufacturer. 2. Each category shall be supported with two Statutory Declaration forms and one copy of supporting documentation. 3. The declaration shall be made by the person having full authority and responsibility for the quality of the end product. 4. Quality control programs shall be resubmitted for validation at a maximum interval of five (5) years.</p> | <p align="center">Northwest Territories</p> <p align="center">REGISTERED</p> <p align="center">UNDER THE AUTHORITY OF THE BOILER AND PRESSURE VESSEL ACT.</p> <p>C.R.N. <u>0F19115.51 ADD1</u></p> <p>SIGNED <u>[Signature]</u></p> <p>DATE <u>06/30/2017</u></p> <p align="right">982.00</p> |
|--|--|

UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS

NEW BRUNSWICK
NUNAVUT

NOVA SCOTIA
YUKON

PRINCE EDWARD ISLAND
NORTHWEST TERRITORIES

NEWFOUNDLAND AND LABRADOR

| | |
|------------------------|--|
| MANUFACTURERS NAME: | ABB Inc. |
| MANUFACTURERS ADDRESS: | 125 East County Line Road, Warminster, PA, 18974 USA |
| PLANT LOCATIONS | Pennsylvania, USA |

| | |
|---|---|
| <p>CATEGORY OF FITTINGS TO BE REGISTERED. CIRCLE ONE CATEGORY ONLY</p> <p>A Pipe fittings, including couplings, tees, elbows, Ys, plugs, unions, pipe caps, or reducers B Flanges: all flanges C Valves: all line valves D Expansion joints, flexible connections, and hose assemblies: all types E Strainers, filters, separators, and steam traps <input checked="" type="checkbox"/> F Measuring devices, including pressure gauges, level gauges, sight glasses, levels, or pressure transmitters G Certified capacity-rated pressure relief devices acceptable as primary over pressure protection on boilers, pressure vessels, piping and fusible plugs H Pressure retaining components that do not fall into one of the above categories N Nuclear components: Class 1 <input type="checkbox"/> Class 2 <input type="checkbox"/> Class 3 <input type="checkbox"/>, (Meeting AECB or ASME requirements)</p> | <p>TITLE OF THE STANDARD OF CONSTRUCTION</p> <p>ASME B31.1 and B31.3 Standards</p> |
|---|---|

| | |
|--|--|
| <p>SHOW MANUFACTURERS NAME, TRADEMARK, OR LOGO AS IT WILL APPEAR ON THE PRODUCT</p> <p align="center"></p> | <p>TYPE OF CONSTRUCTION</p> <p>FORGED <input type="checkbox"/> WELDED <input type="checkbox"/> WROUGHT <input type="checkbox"/> CAST <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> DESCRIBE OTHER: Compression Fittings</p> |
|--|--|

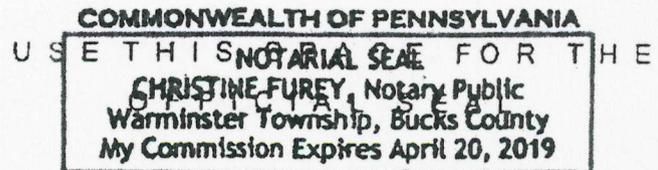
LIST OF SUPPORTING DOCUMENTATION AND IDENTIFICATION OF THE ACTUAL ITEMS TO BE REGISTERED:

LMT Report 0119-0008-SAR-0001; DS/LMT100-EN and DS/LMT300-EN; Drawings 3KXL140100G0001, 3KXL140300G0001

DECLARATION:

I Mr. Steve Hunsberger (see note 3) employed by ABB Inc. and being the person having full authority and responsibility for the quality of the end product do solemnly declare that the information contained in this form is true and to the best of my knowledge represents the product for which registration is sought. The dimensions, materials of construction, pressure temperature ratings, and identification markings are in accordance with the herein named standards. I further declare that the manufacture of these fittings is regulated by a Quality Control Program which extends to each plant where fabrication occurs in whole or in part and has been verified by DNV GL -- Business Assurance as being suitable for that purpose and I make this solemn declaration conscientiously believing it to be true, and knowing that it is of the same force and effect as if made under oath.

Signature of Declarer: [Signature]
 Declared before me at WARMINSTER PA
 This 16 day of JUNE AD 2017
 Commissioner of Oaths or Notary Public: (sign) [Signature]
 (Affix Official seal to the right)



This space for Regulatory Authority use

This registration must be revalidated after ten (10) years from the date of acceptance.

CRN: OF19115.5 ADD1
 FID#: 15499

Notes:
 1. All fittings shall be registered in the name of the Manufacturer.
 2. Each category shall be supported with two Statutory Declaration forms and one copy of supporting documentation.
 3. The declaration shall be made by the person having full authority and responsibility for the quality of the end product.
 4. Quality control programs shall be resubmitted for validation at a maximum interval of five (5) years.

| | |
|-------------------------------------|---|
| NUNAVUT | |
| Boilers and Pressure Vessels Act |  |
| REGISTERED | |
| CRN | <u>OF19115, SNADD1</u> |
| Date | <u>OCT 27 2017</u> |
| Signed | <u>[Signature]</u> Chief Inspector |
| Territorial Registration Fee | |



Inspection and Technical Services Manitoba
508 - 401 York Avenue
Winnipeg Manitoba R3C 0P8
T (204) 945-3373
F (204) 948-2309
www.firecomm.gov.mb.ca/codes_steam_pressure.html

January 5, 2018

TSSA
345 Carlingview Drive
Toronto, ON
M9W 6N9

Attn: Tanya Francis

REGISTRATION OF VALVES AND FITTINGS

Manufacturer: ABB Inc.

The design(s) for the following Valves/Fittings has been received by us and has been examined and accepted for registration in the Province of Manitoba as follows.

| DRAWING / CATALOGUE | CRN | FILE |
|------------------------|------------|-------|
| Change of MFG location | 0F19115.54 | 38402 |

An invoice covering survey and registration fees is enclosed.

NOTES:

- CRN registered under reciprocal agreement & is conditional based on compliance with the notes set by the original issuing Jurisdiction: TSSA. This registration expires **January 25, 2027.***

This registration is valid until the indicated expiry date only if the Manufacturer maintains a valid quality management system approved by an acceptable third-party agency until that date. Should the approval of the quality management system lapse before the expiry date indicated above, this registration shall become void.

The registration of this design does not relieve the manufacturer, the owner or his agent of the responsibility for the design or construction of a fitting in accordance with the applicable Acts, Codes and Standards. Inspection and Technical Services assumes no responsibility by registering designs, examining plans and/or inspecting equipment or facility.

Regards,

Ryan Orlesky, C.E.T.
Design Surveyor
Office of the Fire Commissioner
Inspection and Technical Services Manitoba
508 - 401 York Avenue
Winnipeg, Manitoba, R3C 0P8
Phone: 204-945-3373
Email: ryan.orlesky@gov.mb.ca



Cecylia Garbacz, a Commissioner, etc.
City of Toronto, for the Technical
Standards & Safety Authority
Expires June 17, 2020

SCOPE OF CRN REVISION

ORIGINAL CRN: 0F19115.5C
ABB MODELS REGISTERED: LMT100
REASON FOR CRN REVISION: Original manufacturing location will cease production at the end of the year. Production is being moved to the following ABB location:

125 E. County Line Road
Warminster, PA, USA
18974-4995

There is no change to the registered design; this is a change in manufacturing location only. The CRN needs to be revised such that the new manufacturing location has been added to the CRN and the owner of the CRN is changed to this location as well.

**THIS IS PART OF
CRN 0F19115.5ADD1**
Technical Standards & Safety Authority
Boilers & Pressure Vessels
Safety Program
Wae Aug 2/17

REGISTERED
 CRN: CSA-OF1915.56ADD
 Registered Registrars of Fittings by
 CSA Group per CSA B51



Statutory Declaration of Registrars of Fittings

(a) Design Qualification

I, Mr. Steve Hunsberger
Manager Quality Assurance
 (Position eg, president, plant manager, chief eng.)

Of ABB Inc.
 (name of company)

Located at 125 East County Line Road, Warminster, PA, 18974 USA
 (plant address)

do solemnly declare that the fittings listed hereunder, which are subject to the Boilers & Pressure Vessels Act:

- comply with all the requirements of the ANSI/ASME codes as to their dimensions, material, identification & service for which are required:
 Or
 are not covered by the provisions of the ANSI/ASME codes, and are therefore constructed to comply with _____ code and standard, and are designed to the best current engineering practice, as shown by the supporting test data.

(b) Quality control of Manufacture

I further declare the manufacture of these fittings is controlled by a quality control program which complies with the requirements of ISO9001 2008, and has been verified by the following authority or authorized agency DNV GL -- Business Assurance

The fittings² covered by this declaration, for which I seek registration, are Category F

In support of the application, the following information, calculations and/or test data are attached:
 LMT Report 0119-0008-SAR-0001; DS/LMT100-EN and DS/LMT300-EN, Drawings 3KXL140100G0001, 3KXL140300G0001

Declared before me at WARMINSTER PA

In the of COUNTY of BUCKS

The 16 Day of JUNE AD 19 2017

Christine Furey
 A (commissioner for oaths)

COMMONWEALTH OF PENNSYLVANIA
 NOTARIAL SEAL
 CHRISTINE FUREY, Notary Public
 Warminster Township, Bucks County
 My Commission Expires April 20, 2019

[Signature]
 Signature of Declarant

For Official Use Only

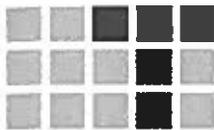
The application is accepted for registration in Category F in accordance with the Boilers and Pressure Vessels Act and CSA Standard B51.

This registration must be revalidated after ten (10) years from the date of acceptance.
EXPIRY DATE: JAN. 25. 2027

Registered Number CRN CSA-OF1915.56ADD For the Chief Inspector Date R. BARNES
NOV. 10. 2017

- 1 Three completed copied of Statutory Declaration form together with three copies of Catalogs, drawings of Bulletins illustrating above fittings shall be submitted.
- 2 All fittings are required to be registered in the name of the Manufacturer.
- 3 This form shall be completed and signed by the president or highest official in the manufacturing plan where the fitting is produced.





Technical Safety Authority of Saskatchewan

REGISTERED

CRN: CSA-OF19115, 56ADD1

CSA Group
2202 2nd Ave.
Regina, SK S4R 1K3
PH: (306)798-7112 Toll Free: (866)530-8599
FAX: (306)787-9273 Toll Free: (866)760-9255
Email: boilerpermits@tsask.ca
Website: www.tsask.ca

Registration Process administered by

CSA Group per CSA B51

Statutory Declaration (Registration of Fittings)

TSK-1008

I. Declaration Information

I, Mr. Steve Hunsberger

Manager Quality Assurance

(company title, e.g. vice president, plant manager, chief engineer)
(must be in a position of authority in the manufacturing plant where the fitting is produced)

of: ABB Inc.

(name of manufacturer)

In this space, show facsimile of manufacturer's logo or trademark as it will appear on the fitting.



located at: 125 East County Line Road Warminster, PA, USA 18974
(Plant Address - Apt/Street) (City, Prov) (Postal Code)

do solemnly declare that the fittings listed hereinunder, which are subject to the **Saskatchewan Boiler and Pressure Vessel Safety Act** (check one)

- Comply with the requirements of ASME B31.1 and ASME B31.3 which specifies the dimensions, Materials of construction, pressure / temperature ratings and identification marking of the fittings, or
(title of recognized North American Standard)
- Are not covered by the provisions of a recognized North American standard and are therefore manufactured to comply with _____ as supported by the attached data which identifies the dimensions, materials of construction, pressure / temperature ratings and the basis for such ratings, and the marking of the fittings for identification.

I further declare that the manufacturer of these fittings is controlled by a quality control program which has been verified by the following authority, DNV GL -- Business Assurance as being suitable for the manufacturer of these fittings to the stated standard. The fittings covered by this declaration, for which I seek registration, are ISO 9001:2008

In support of this application, the following information, calculations and / or test data are attached:

LMT Report 0119-0008-SAR-0001; DS/LMT100-EN and DS/LMT300-EN; Drawings 3KXL140100G0001, 3KXL140300G0001

II. Declaration

DECLARED before me at WARMINSTER PA In the COUNTY of BUCKS
this 16 day of COMMONWEALTH OF PENNSYLVANIA, 2019

NOTARIAL SEAL
CHRISTINE FUREY, Notary Public
Warminster Township, Bucks County
My Commission Expires April 20, 2019

(print name)
Christine Furey
(Signature of Commissioner of Oaths)

(Signature)
[Handwritten Signature]

III. Office Use Only

To the best of my knowledge and belief, the application meets the requirements of the **Boiler and Pressure Vessel Safety Act** and CSA B51, Clause 4.2, and is accepted for registration in Category F

CSA-OF19115, 56ADD1
(Registration Number)

NOV. 10. 2017
(Date Registered - MM DD YYYY)
For: [Signature] Chief Inspector

JAN. 25. 2027
(Expiry Date - MM DD YYYY)
R. BARNES



Note: See the attachment for the scope of the registration.



345 Carlingview Drive
Toronto, Ontario M9W 6N9
Tel.: 416 734 3300
Fax: 416 231 1626
Toll Free 1.877.682.8772

www.tssa.org

August 02, 2017

RICHARD COOK
INR ENGINEERING LTD.
115 EATON ST.
GEORGETOWN ON L7G 5T3
CA

Service Request Type: BPV-Fitting Registration
Service Request No.: 2130222
Your Reference No.:
Registered to: ABB INC

Dear RICHARD COOK,

Technical Standards and Safety Authority (TSSA) is pleased to inform you that your submission has been reviewed and registered as follows:

CRN No.: 0F19115.5ADD1

Main Design No.: ADD1: Change of the manufacturing location and CRN ownership only. There is no change in design or the scope of registration.

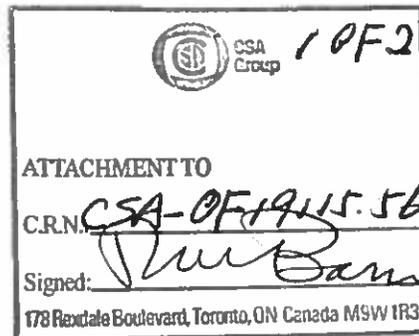
Expiry Date: 25-Jan-2027

Please be advised that a valid quality control system must be maintained for the fitting registration to remain valid until the expiry date.

The stamped copy of the approved registration and the invoice are mailed separately. Should you have any questions or require further assistance, please contact a Customer Service Advisor at 1.877.682.TSSA (8772) or e-mail customerservices@tssa.org. We will be happy to assist you. When contacting TSSA regarding this file, please refer to the Service Request number provided above.

Yours truly,

Mark Valcic P. Eng.
Engineer Specialist BPV
Tel.: 416-734-3494
Fax: 416-231-1626
Email: mvalcic@tssa.org



SCOPE OF CRN REVISION

ORIGINAL CRN: 0F19115.5C
ABB MODELS REGISTERED: LMT100
REASON FOR CRN REVISION: Original manufacturing location will cease production at the end of the year. Production is being moved to the following ABB location:

125 E. County Line Road
Warminster, PA, USA
18974-4995

There is no change to the registered design; this is a change in manufacturing location only. The CRN needs to be revised such that the new manufacturing location has been added to the CRN and the owner of the CRN is changed to this location as well.

 2 OF 2

ATTACHMENT TO
C.R.N. CSA-0F19115.5 ADD1
Signed: [Signature]
178 Rexdale Boulevard, Toronto, ON Canada M9W 1R3

THIS IS PART OF
CRN 0F19115.5 ADD1
Technical Standards & Safety Authority
Boilers & Pressure Vessels
Safety Program
Wal Feb 2 / 17