



505 - 6th Street, Suite 200
New Westminster, BC V3L 0E1

Toll Free: 1-866-566-SAFE
Fax: (778) 396 - 2064
www.safetyauthority.ca

ANRIC ENTERPRISES INC
202-701 EVANS AVENUE
TORONTO ON M9C 1A3
CANADA

Date: June 9, 2016
Account #: 35616
Journal #: 65660
Our File #: 5594575

Attn: ALICIA CZERNIAWSKI

Re: Application for Design Registration

The design, as detailed in your, OSX-1601-0147, for a Fitting is accepted for registration as follows:

Registered To: ABB INC

CRN: 0F18455.51

Drawing #: LLT100 Scope of Registration

Conditions Of Registration:

Registration of a Laser Measuring Device LLT100 Series as per scope of registration.

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:

As required by CSA B51 4.2.1, this registration expires on May 10, 2026. 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.

KURTIS MCLELLAND
(778) 396-2077
Kurtis.McLelland@safetyauthority.ca
Design Administration

cc:

THIS IS PART OF
CRN 0F18455.5
Technical Standard 2 Safety Authority
Boilers, Pressure Vessels
Safety Program



CRN Scope of Registration for LLT100

Flange Sample description	For Use in Instrument model(s)*	Maximum Working Pressure (MAWP) for ANSI/ISA 12.27.01	Proof Tested Pressure	Maximum Working Pressure (MAWP) to B31.1&31.3 for CRN
FL-8, ASME Class 150 Stainless Steel Flange (SN:1584451-002) (A182 Gr.F316)	LLT100.XXCXXX (Class 150)	128 bar (1856 PSI)	384 bar (5568 PSI)	38.4 bar (556.8 PSI)
FL-10, ASME Class 300/600 Stainless Steel Flange (SN:1584452-002) (A182 Gr.F316)	LLT100.XXDXXX (Class 300) LLT100.XXEXXX (Class 600)	213 bar (3089 PSI)	640 bar (9280 PSI)	64 bar (928 PSI)
FL-12, DIN PN16/PN40 Stainless Steel Flange (SN:1584453-002) (A182 Gr.F316)	LLT100.XXFXXX (DIN PN16) LLT100.XXGXXX (DIN PN40)	128 bar (1856 PSI)	384 bar (5568 PSI)	38.4 bar (556.8 PSI)
FL-14, ASME Class 150/DIN PN16 Aluminum Universal Flange (SN:1584446-002), with window cemented with Sylgard 567 Die cast aluminum YL104 (Chinese alloy) (equivalent to US alloy A360)	LLT100.XXAXXX	32 bar (464PSI)	96 bar (1392 PSI)	9.6 bar (139.2 PSI)
FL-16, ASME Class 150/DIN PN16 Aluminum Universal Flange (SN:1584445-002), with window cemented with Elastosil RT-607 Die cast aluminum YL104 (Chinese alloy) (equivalent to US alloy A360)	LLT100.XXAXXX **	32 bar (464PSI)	96 bar (1392 PSI)	9.6 bar (139.2 PSI)
FL-18, ASME Class 150/DIN PN16 Stainless Universal Flange (SN: 1584449-002), with window cemented with Sylgard 567 (Material A-351, Gr. CF3M)	LLT100.XXBXXX	25.3 bar (367PSI)	76 bar (1104 PSI)	7.6 bar (110.4 PSI)

* "X" in instrument model numbers refers to any alpha-numeric character that accounts for construction variations that are NOT subjected to the process pressure. (E.g. Instrument Body, optional display, connection terminals...)

** FL-16 is the same flange than FL-14, except assembled and tested with an alternate cement. This will not result in a different instrument configuration at the end.

ABB Inc.

3BOM000142D0717 rev A

3403 Rue Pierre-Ardaun
Quebec, QC G1P 0B2
CANADA

Telephone/Phone
(418) 877-2944
(800) 858-FTIR (3847) Ameriques/Americas
3310520000 France

Telecopieur/Fax
(418) 877-2534

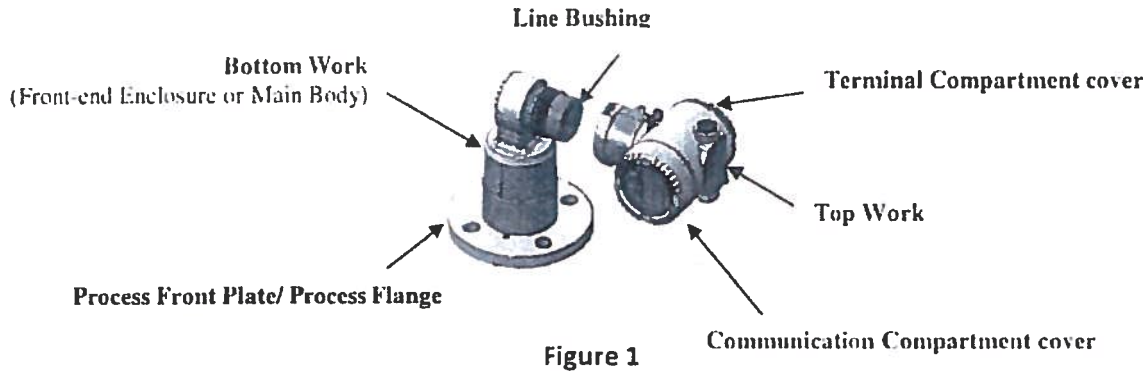
www.abb.com

ANRIC Enterprises Inc.

701 Evans Ave, Suite 202, Toronto, Ontario, Canada M9C 1A3

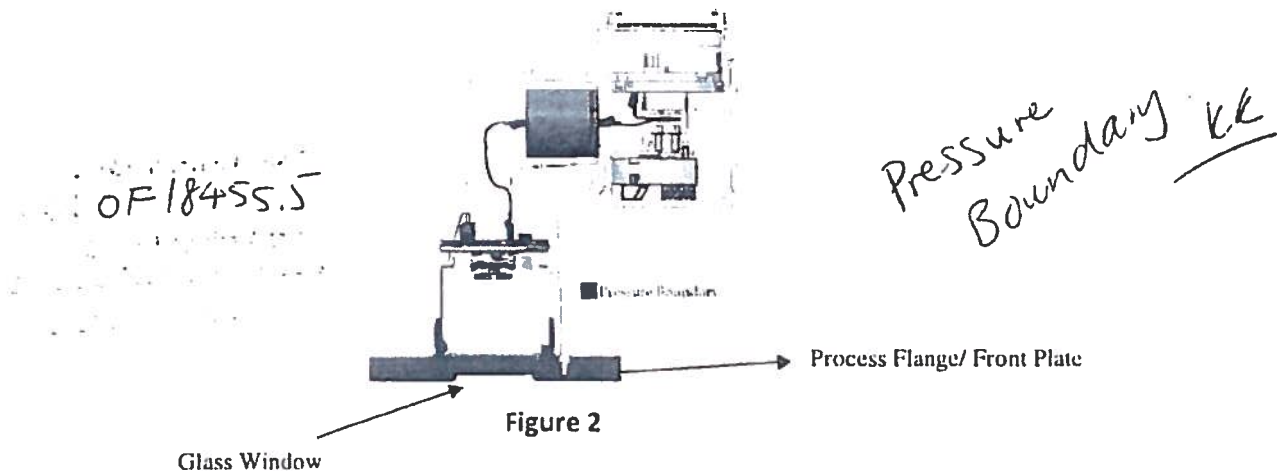
Phone: (416) 253-9459

Fax: (416) 252-5335



2.2 Pressure Boundary Areas

The pressure resisting areas of the product consist of only the process flange and the glass window. (Figure 2)



2.3 Product Variations

There are some variations in the construction and the materials of construction. The variations in body materials do not require additional testing as the body is not pressure boundary. The major variation in the product range is the material (aluminum or stainless steel), and Pressure class (Class 150/300.600/PN 16 of the process flange and the type of connection between the glass window/sight glass and the process front plate/ process flange. These variations are cemented glass window and fused glass window with a raised face. The variations in the glass type are illustrated in Figure 3 on the following page.





the pressure equipment safety authority

9410 - 20 Ave N.W.
Edmonton, Alberta, Canada T6N 0A4
Tel: (780) 437-9100 / Fax: (780) 437-7787

July 21, 2016

Attention: Alicia Czerniawski
ANRIC ENTERPRISES INC
701 EVANS AVENUE STE 202
TORONTO, ON M9C 1A3

The design submission, tracking number 2016-03890, originally received on July 14, 2016 was surveyed and accepted for registration as follows:

CRN : 0F18455.52

Accepted on: July 21, 2016

Reg Type: New Design

Expiry Date: May 10, 2026

Drawing No. : LASERMEASURING DEVICE LLT100 SERIES SCOPE

Fitting type: LASERMEASURING DEVICE

Design registered in the name of : ABB INC

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

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,

GRYNCHUK, MILLA

ABSA
the pressure equipment safety authority
STATUTORY DECLARATION
Registration of Fittings



I, Mr. Andreas Strauch,

Development & Technology Manager

(company title, e.g. vice president, plant manager, chief engineer) (must be in a position of authority)

of ABB INC.

(name of manufacturer)

located at 3400 Rue Pierre-Ardouin, Québec, Québec, G1P 0B2, CANADA

(plant address)

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 which specifies the dimensions,
(title of recognized North American Standard)

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 _____ 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 manufacture of these fittings is controlled by a quality control program which has been verified by the following authority, SGS North America Inc. as being suitable for the manufacture of these fittings to the stated standard. The fittings covered by this declaration, for which I seek registration, are category - F -

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

Scope of the registration, proof tests report, ISO9001 certificate.

DECLARED before me at Québec in the province of Quebec

this 13th day of may, 2016
(Month) (Year)

(print) Guillaume Parent (P1024)

(sign) Guillaume Parent
(A Commissioner for Oaths)

[Signature]
(Signature of Applicant)

For Office Use Only

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 18455.52

Date Registered: JUL 21 2016

(For the Administrator/Chief Inspector of Alberta)

Expiry Date: May 10 2026

The information you provide is necessary only for the administration of the programs as required by the Alberta Safety Codes Act and Regulations in the Boiler Discipline.

see attachment for the scope

THIS IS PART OF
CRN 0F18455.5
Technical Standards & Safety Authority
Boilers & Pressure Vessels
Safety Program

ABB

CRN Scope of Registration for LLT100

Flange Sample description	For Use in Instrument model(s)*	Maximum Working Pressure (MAWP) for ANSI/ISA 12.27.01	Proof Tested Pressure	Maximum Working Pressure (MAWP) to B31.1&31.3 for CRN
FL-8, ASME Class 150 Stainless Steel Flange (SN:1584451-002) (A182 Gr.F316)	LLT100.XXCXXX (Class 150)	128 bar (1856 PSI)	384 bar (5568 PSI)	38.4 bar (556.8 PSI)
FL-10, ASME Class 300/600 Stainless Steel Flange (SN:1584452-002) (A182 Gr.F316)	LLT100.XXDXXX (Class 300) LLT100.XXEXXX (Class 600)	213 bar (3089 PSI)	640 bar (9280 PSI)	64 bar (928 PSI)
FL-12, DIN PN16/PN40 Stainless Steel Flange (SN:1584453-002) (A182 Gr.F316)	LLT100.XXFXXX (DIN PN16) LLT100.XXGXXX (DIN PN40)	128 bar (1856 PSI)	384 bar (5568 PSI)	38.4 bar (556.8 PSI)
FL-14, ASME Class 150/DIN PN16 Aluminum Universal Flange (SN:1584446-002), with window cemented with Sylgard 567 Die cast aluminum YL104 (Chinese alloy) (equivalent to US alloy A360)	LLT100.XXAXXX	32 bar (464PSI)	96 bar (1392 PSI)	9.6 bar (139.2 PSI)
FL-16, ASME Class 150/DIN PN16 Aluminum Universal Flange (SN:1584445-002), with window cemented with Elastosil RT-607 Die cast aluminum YL104 (Chinese alloy) (equivalent to US alloy A360)	LLT100.XXAXXX **	32 bar (464PSI)	96 bar (1392 PSI)	9.6 bar (139.2 PSI)
FL-18, ASME Class 150/DIN PN16 Stainless Universal Flange (SN: 1584449-002), with window cemented with Sylgard 567 (Material A-351, Gr. CF3M)	LLT100.XXBXXX	25.3 bar (367PSI)	76 bar (1104 PSI)	7.6 bar (110.4 PSI)

* "X" in instrument model numbers refers to any alpha-numeric character that accounts for construction variations that are NOT subjected to the process pressure. (E.g. Instrument Body, optional display, connection terminals, etc.)

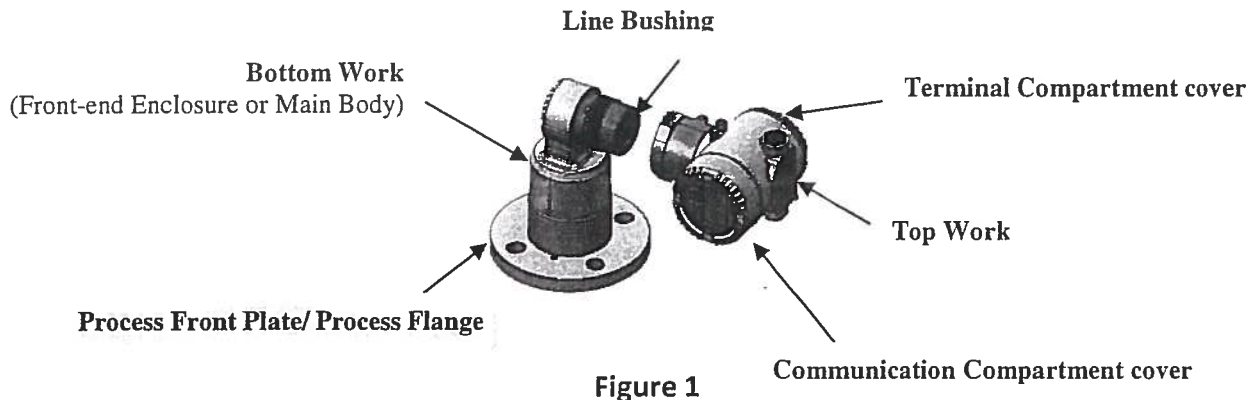
** FL-16 is the same flange than FL-14, except assembled and tested with an alternate cement. This will not result in a different instrument configuration at the end.

ABB Inc.

3400 Rue Pierre-Ardouin
Québec, QC, G1P 0B2
CANADA

Telephone/Phone
(418) 877-2944
(800) 858-FTIR (3847) Amériques/Americas
0810 620 000 France

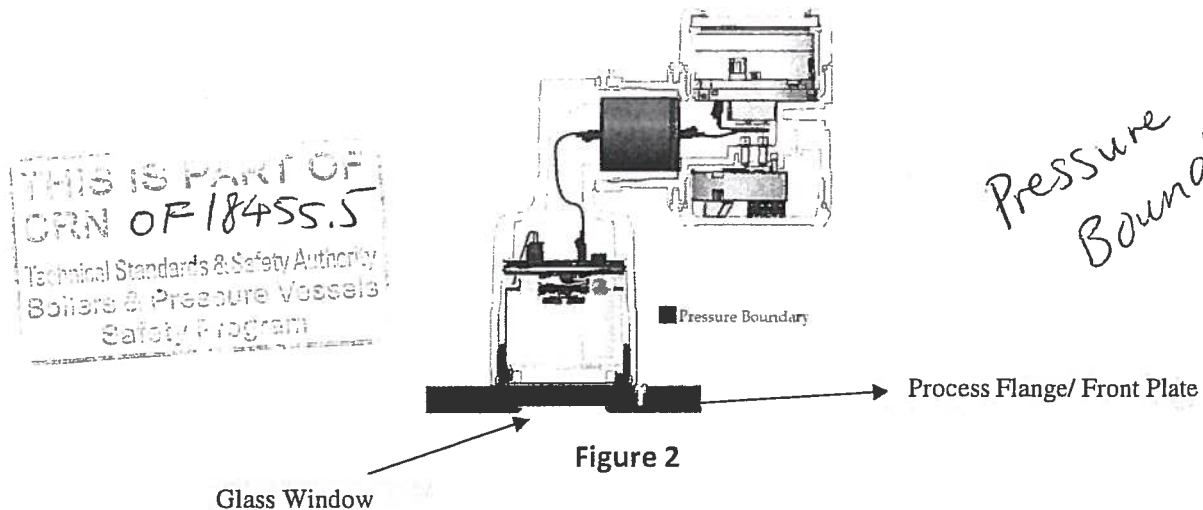
SAFETY CODE FOR REGISTRATION OF FITTINGS
OF18455.52
REGISTRATION NO. _____
DWG. NO. or CAT. NO. Scope LLT100
LASER MEASURING DEVICE
JUL 21 2016
3BOM000142D071 rev.A
MILLA GRYNCHUK, P.Eng.
DESIGN SURVEY ENGINEER

**Figure 1**

2.2 Pressure Boundary Areas

The pressure resisting areas of the product consist of only the process flange and the glass window.

(Figure 2)

**Figure 2**

2.3 Product Variations

There are some variations in the construction and the materials of construction. The variations in body materials do not require additional testing as the body is not pressure boundary. The major variation in the product range is the material (aluminum or stainless steel), and Pressure class (Class 150/300.600/PN 16 of the process flange and the type of connection between the glass window/sight glass and the process front plate/ process flange. These variations are cemented glass window and fused glass window with a raised face. The variations in the glass type are illustrated in Figure 3 on the following page.

0F18455.52

REGISTRATION OF A PRESSURE FITTING DESIGN

24-Aug-16

ANRIC Enterprise Inc.
701 Evans Avenue, Suite 202
Toronto, ON
M9C 1A3

Attention: Alicia Czerniawski**File Number: 10242 [0 F]**

Re: Manufacturer: ABB Inc.
Item: Laser Level Transmitter
Catalog or Drawing: ABB Scope of Registration for LLT100

TSASK Codes and Standards Compliance has registered the design listed above in accordance with The Boiler and Pressure Vessel Act and Regulations and CSA B51. The Canadian Registration Number (CRN) is:

OF18455.53 Expiry Date: May 10, 2026

Please note that every fitting shall be constructed in strict accordance with the registered design.

Fitting registrations are required to be resubmitted for validation after ten (10) years from the registration date in accordance with CSA B51, Clause 4.2.1.

Should you require anything further, please do not hesitate to contact the Codes and Standards Compliance Office at your convenience.

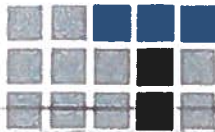
Yours truly,



Athan Syrgiannis, Engineer-in-Training
Codes and Standards Compliance

Remarks:

CRN registered under reciprocal agreement.



Technical Safety Authority of Saskatchewan

2202 2nd Ave.
Regina, SK S4R 1K3
PH: (306)798-7112 Toll Free: (866)530-8599
FAX: (306)787-9273 Toll Free: (866)760-8255
Email: bolpermits@tsask.ca
Website: www.tsask.ca

Statutory Declaration (Registration of Filings)

TSK-1008

I. Declaration Information

I. Mr. Andreas Strauch

Development & Technology Manager

(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)

ABB **LLT100**

located at: 3400 Rue Pierre-Ardouin, Québec, QC, G1P 0B2, Canada
(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 & B31.3 which specifies the dimensions,
(title of recognized North American Standard)
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 _____ 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, SGS North America Inc. 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 Category - F - fittings, for "LLT100" series Laser Level Transmitter

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

Scope of the registration, proof test report, ISO9001 certificate.

II. Declaration

DECLARED before me at Québec In the province of Québec
this 13th day of may, 2016
Guillaume Parent (P1024) (print name) (Signature)
Gilles Parent, notaire (Signature of Commissioner of Oaths)

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 _____

(Registration Number)

CRN OF18455.53

(Date Registered - MM DD YYYY)

(For the Administrator / Chief Inspector)

(Expiry Date - MM DD YYYY)

File 10242

REGISTERED

Date Aug. 24, 2016

Design Survey Office

CRN OF18455.53

File 10242

REGISTERED

Date Aug. 24, 2016

Design Survey Office



CRN Scope of Registration for LLT100

Flange Sample description	For Use in Instrument model(s)*	Maximum Working Pressure (MAWP) for ANSI/ISA 12.27.01	Proof Tested Pressure	Maximum Working Pressure (MAWP) to B31.1&31.3 for CRN
FL-8, ASME Class 150 Stainless Steel Flange (SN:1584451-002) (A182 Gr.F316)	LLT100.XXCXXX (Class 150)	128 bar (1856 PSI)	384 bar (5568 PSI)	38.4 bar (556.8 PSI)
FL-10, ASME Class 300/600 Stainless Steel Flange (SN:1584452-002) (A182 Gr.F316)	LLT100.XXDXXX (Class 300) LLT100.XXEXXX (Class 600)	213 bar (3089 PSI)	640 bar (9280 PSI)	64 bar (928 PSI)
FL-12, DIN PN16/PN40 Stainless Steel Flange (SN:1584453-002) (A182 Gr.F316)	LLT100.XXFXXX (DIN PN16) LLT100.XXGXXX (DIN PN40)	128 bar (1856 PSI)	384 bar (5568 PSI)	38.4 bar (556.8 PSI)
FL-14, ASME Class 150/DIN PN16 Aluminum Universal Flange (SN:1584446-002), with window cemented with Sylgard 567 Die cast aluminum YL104 (Chinese alloy) (equivalent to US alloy A360)	LLT100.XXAXXX	32 bar (464PSI)	96 bar (1392 PSI)	9.6 bar (139.2 PSI)
FL-16, ASME Class 150/DIN PN16 Aluminum Universal Flange (SN:1584445-002), with window cemented with Elastosil RT-607 Die cast aluminum YL104 (Chinese alloy) (equivalent to US alloy A360)	LLT100.XXAXXX **	32 bar (464PSI)	96 bar (1392 PSI)	9.6 bar (139.2 PSI)
FL-18, ASME Class 150/DIN PN16 Stainless Universal Flange (SN: 1584449-002), with window cemented with Sylgard 567 (Material A-351, Gr. CF3M)	LLT100.XXBXXX	25.3 bar (367PSI)	76 bar (1104 PSI)	7.6 bar (110.4 PSI)

* "X" in instrument model numbers refers to any alpha-numeric character that accounts for construction variations that are NOT subjected to the process pressure. (E.g. Instrument Body, optional display, connection terminals...)

** FL-16 is the same flange than FL-14, except assembled and tested with an alternate cement. This will not result in a different instrument configuration at the end.

ABB Inc.

3BOM000142D0717 rev A



Inspection and Technical Services Manitoba
500 - 401 York Avenue
Winnipeg Manitoba R3C 0P8
T (204) 945-3373
F (204) 948-2309
www.firecomm.gov.mb.ca/codes_steam_pressure.html

July 29, 2016

Anric Enterprises Inc.
Suite 202-701 Evans Ave.
Toronto, ON
M9C 1A3

Attn: Alicia Czerniawski

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
LLT100 SERIES	0F18455.54	36683

An invoice covering survey and registration fees is enclosed.

NOTE: CRN registered under reciprocal agreement & is conditional based on compliance with the notes set by the original issuing Jurisdiction: *TSSA*. This registration expires **May 10, 2026**.

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,

A blue ink signature of Ryan Orlesky, written in a cursive style.

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

MANITOBA

DEPARTMENT OF LABOUR
AND IMMIGRATION
500 - 401 York Avenue
Winnipeg, Manitoba R3C 0P8



STATUTORY DECLARATION REGISTRATION OF FITTINGS

(a) Design Qualification

1. Mr. Andreas Strauch
(See Note 2)

Development & Technology Manager

(Position e.g.: president, plant manager, chief eng.)

of ABB INC.

(Name of company)

located at 3400 Rue Pierre-Ardouin, Québec, Québec, G1P 0B2, CANADA

(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.
or

are not covered by the provisions of the ANSI/ASME codes, and are therefore constructed to comply with
_____ code or 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, and has been verified by the following authority or authorized agency SGS North America Inc.

The fittings covered by this declaration, for which I seek registration, are category - F - type of fittings.

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

Scope of the registration, proof tests report, ISO9001 certificate.

Declared before me at Québec in the province/state of Québec the 13th
day of may AD 20 16

A (commissioner for oaths)

Gilles Paré, notaire

[Signature]

Signature of Declarer

(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.

EXPIRES MAY 10, 2016

Registered Number CRN OF18455.54

For the Chief Inspector

Date: JULY 29, 2016

Notes:

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



CRN Scope of Registration for LLT100

Flange Sample description	For Use in Instrument model(s)*	Maximum Working Pressure (MAWP) for ANSI/ISA 12.27.01	Proof Tested Pressure	Maximum Working Pressure (MAWP) to B31.1&31.3 for CRN
FL-8, ASME Class 150 Stainless Steel Flange (SN:1584451-002) (A182 Gr.F316)	LLT100.XXCXXX (Class 150)	128 bar (1856 PSI)	384 bar (5568 PSI)	38.4 bar (556.8 PSI)
FL-10, ASME Class 300/600 Stainless Steel Flange (SN:1584452-002) (A182 Gr.F316)	LLT100.XXDXXX (Class 300) LLT100.XXEXXX (Class 600)	213 bar (3089 PSI)	640 bar (9280 PSI)	64 bar (928 PSI)
FL-12, DIN PN16/PN40 Stainless Steel Flange (SN:1584453-002) (A182 Gr.F316)	LLT100.XXFXXX (DIN PN16) LLT100.XXGXXX (DIN PN40)	128 bar (1856 PSI)	384 bar (5568 PSI)	38.4 bar (556.8 PSI)
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FL-18, ASME Class 150/DIN PN16 Stainless Universal Flange (SN: 1584449-002), with window cemented with Sylgard 567 (Material A-351, Gr. CF3M)	LLT100.XXBXXX	25.3 bar (367PSI)	76 bar (1104 PSI)	7.6 bar (110.4 PSI)

* "X" in instrument model numbers refers to any alpha-numeric character that accounts for construction variations that are NOT subjected to the process pressure. (E.g. Instrument Body, optional display, connection terminals...)

** FL-16 is the same flange than FL-14, except assembled and tested with an alternate cement. This will not result in a different instrument configuration at the end.

ABB Inc.

3BOM000142D0717 rev A

3400 Rue Pierre-Ardouin
Quebec, QC, G1P 0B2
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(418) 877-2944
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0810620 000 France

Telecopieur / Fax
(418) 877-2834

www.abb.com/ave



14th Floor, Centre Tower
3300 Bloor Street West
Toronto, Ontario
Canada M8X 2X4
Tel.: 416.734.3300
Fax: 416.231.1626
Toll Free: 1.877.682.8772
www.tssa.org

May 10, 2016

ALICIA CZERNIAWSKI
ANRIC ENTERPRISES
701 EVANS AVE SUITE 202
TORONTO ON M9C 1A3
CA

Service Request Type: BPV-Fitting Registration
Service Request No.: 1852714
Your Reference No.: OSX-1601-0147
Registered to: ABB INC

Dear ALICIA CZERNIAWSKI,

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

CRN : 0F18455.5

Main Design No.: LASER MEASURING DEVICE LLT100 SERIES - SEE CRN
SCOPE OF REGISTRATION FOR LLT100 (1PG)

Expiry Date: 10-May-2026

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

See one sheet of attachment to Statutory Declaration for scope.

A stamped copy of the approved registration and invoice for engineering services will be mailed to you shortly. Should you have any questions or require further assistance, however, 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,

Kaivan Kia P. Eng., PMP
Mechanical Engineer, BPV
Tel. : 416-734-3457
Fax : 416-231-6183
Email : kkia@tssa.org



TECHNICAL STANDARDS &
SAFETY AUTHORITY
14th Floor, Centre Tower
3300 Bloor Street West
Toronto, Ontario
Canada M8X 2X4

Show facsimile of manufacturer's logo or trademark, as it will
appear on the fitting, in the space below

ABB LLT100

STATUTORY DECLARATION

Registration of Fittings

I, Mr. Andreas Strauch, Development & Technology Manager

(Name and Position, e.g. President, Plant Manager, Chief Engineer)

of ABB INC.

(Name of Manufacturer)

Located at 3400 Rue Pierre-Ardouin, Québec, Québec, G1P 0B2

(Plant Address)

418-877-2944

(Telephone No.)

418-877-2834

(Fax No.)



do solemnly declare that the fittings listed hereunder, which are subject to the **Technical Standards and Safety Act**, Boilers and Pressure Vessels Regulation, comply with all of the requirements of
ASME B31.1 and B31.3

(Title of recognized North American Standard)

which specifies the dimensions, materials of construction, pressure/temperature ratings, identification marking the fittings and service;



or 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, material of construction,
pressure/temperature ratings and the basis for such ratings, the marking of the fitting for identification and service.

I further declare that the manufacture of these fittings is controlled by a quality system meeting the requirements of ISO9001:2008
which has been verified by the following authority, SGS North America Inc.

The items covered by this declaration, for which I seek registration, are category - F - type fittings. In support of
this application, the following information and/or test data are attached as follows:

Scope of the registration, proof tests report, ISO certificate.

(drawings, calculations, test reports, etc.)

Declared before me at 1195 Ave Lavigne in the City of Quebec

the 19 day of 04 AD 20 16.

Commissioner for Oaths:

NATHALIE BREAU

(Printed name)

Nathalie Breau
(Signature) #167812

[Signature]
(Signature of Declarer)

FOR OFFICE USE ONLY

To the best of my knowledge and belief, the application meets the requirements of the
Technical Standards and Safety Act, Boilers and Pressure Vessels Regulation, and
CSA Standard B51 and is accepted for registration in Category F.

CRN: 0F18455.5

Registered by: K. Kin

Dated: May 10/16

NOTE: This registration expires on May 10/2026

Technical
Standards
and Safety
Authority

Boilers and
Pressure Vessels
Safety Program

REGISTERED

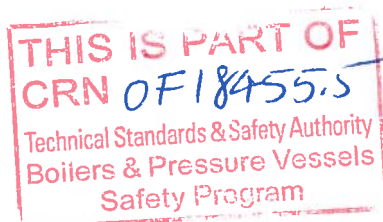
CRN: 0F18455.5

Signed: K. Kin

Date: May 10/16

PV 09553 (06/04) - See one sheet of attachment for scope.

- See stamped sheet for pressure boundary. K K 5/10/16



CRN Scope of Registration for LLT100

Flange Sample description	For Use in Instrument model(s)*	Maximum Working Pressure (MAWP) for ANSI/ISA 12.27.01	Proof Tested Pressure	Maximum Working Pressure (MAWP) to B31.1&31.3 for CRN
FL-8, ASME Class 150 Stainless Steel Flange (SN:1584451-002) (A182 Gr.F316)	LLT100.XXCXXX (Class 150)	128 bar (1856 PSI)	384 bar (5568 PSI)	38.4 bar (556.8 PSI)
FL-10, ASME Class 300/600 Stainless Steel Flange (SN:1584452-002) (A182 Gr.F316)	LLT100.XXDXXX (Class 300) LLT100.XXEXXX (Class 600)	213 bar (3089 PSI)	640 bar (9280 PSI)	64 bar (928 PSI)
FL-12, DIN PN16/PN40 Stainless Steel Flange (SN:1584453-002) (A182 Gr.F316)	LLT100.XXFXXX (DIN PN16) LLT100.XXGXXX (DIN PN40)	128 bar (1856 PSI)	384 bar (5568 PSI)	38.4 bar (556.8 PSI)
FL-14, ASME Class 150/DIN PN16 Aluminum Universal Flange (SN:1584446-002), with window cemented with Sylgard 567 Die cast aluminum YL104 (Chinese alloy) (equivalent to US alloy A360)	LLT100.XXAXXX	32 bar (464PSI)	96 bar (1392 PSI)	9.6 bar (139.2 PSI)
FL-16, ASME Class 150/DIN PN16 Aluminum Universal Flange (SN:1584445-002), with window cemented with Elastosil RT-607 Die cast aluminum YL104 (Chinese alloy) (equivalent to US alloy A360)	LLT100.XXAXXX **	32 bar (464PSI)	96 bar (1392 PSI)	9.6 bar (139.2 PSI)
FL-18, ASME Class 150/DIN PN16 Stainless Universal Flange (SN: 1584449-002), with window cemented with Sylgard 567 (Material A-351, Gr. CF3M)	LLT100.XXBXXX	25.3 bar (367PSI)	76 bar (1104 PSI)	7.6 bar (110.4 PSI)

* "X" in instrument model numbers refers to any alpha-numeric character that accounts for construction variations that are NOT subjected to the process pressure. (E.g. Instrument Body, optional display, connection terminals...)

** FL-16 is the same flange than FL-14, except assembled and tested with an alternate cement. This will not result in a different instrument configuration at the end.

ABB Inc.

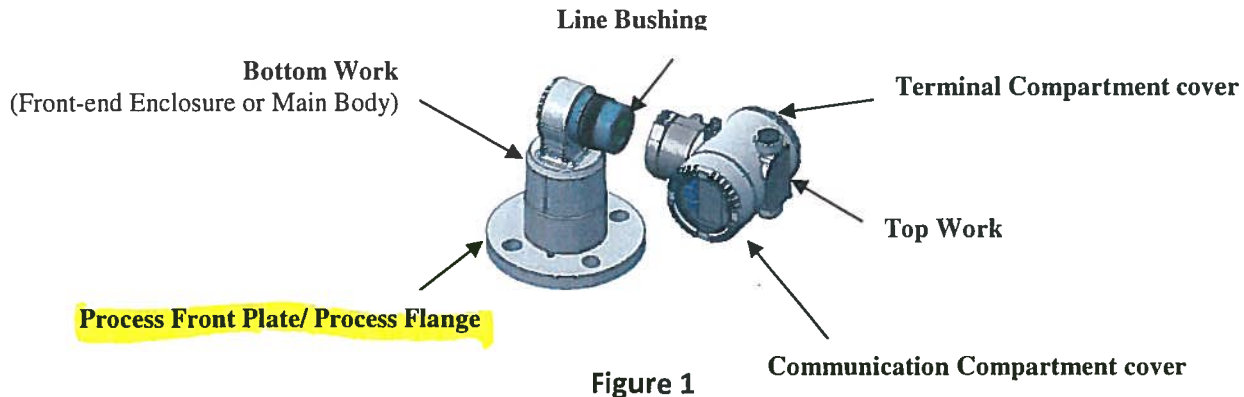
3BOM000142D0717 rev. A

3400 Rue Pierre-Arduin
Québec, QC, G1P 0B2
CANADA

Telephone / Phone
(418) 877-2944
(800) 858-FTIR (3847) Amériques / Americas
0810 620 000 France

Telecopieur / Fax
(418) 877-2834

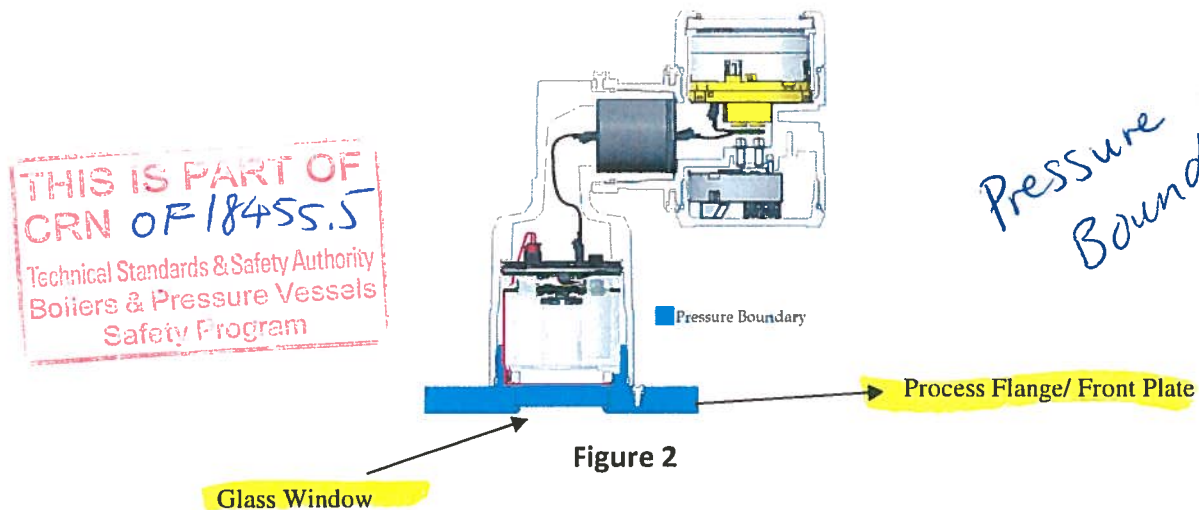
www.abb.com/level



2.2 Pressure Boundary Areas

The pressure resisting areas of the product consist of only the process flange and the glass window.

(Figure 2)



2.3 Product Variations

There are some variations in the construction and the materials of construction. The variations in body materials do not require additional testing as the body is not pressure boundary. The major variation in the product range is the material (aluminum or stainless steel), and Pressure class (Class 150/300.600/PN 16 of the process flange and the type of connection between the glass window/sight glass and the process front plate/ process flange. These variations are cemented glass window and fused glass window with a raised face. The variations in the glass type are illustrated in Figure 3 on the following page.

Le 12 août 2016.

MRS. ALICIA CZERNIAWSKI
ANRIC ENTERPRISES
701 EVANS AVE. SUITE 202
TORONTO ONTARIO
CANADA M9C1A3

REFERENCE : C.R.N. application
SCOPE OF REGISTRATION FOR LLT100

LASER MEASURING DEVICE LLT 100
OUR REFERENCE : 956322
MANUFACTURER : ABB INC.
3400 PIERRE ARDOUIN
QUÉBEC QC
CANADA G1P0B2

Dear Madam,

According to our law respecting pressure vessels, your plan has been accepted and registered under the number 0F18455.56.


GILLES BONNIER

Inspecteur

Bureau d'expertise et d'homologation en
équipements sous pression
545, boulevard Crémazie est, 7^{ème} étage
Montréal (Québec) Canada
H2M 2V2

Téléphone : (514) 873-6459
Sans frais : 1 866 262-2084
Télécopieur : (514) 873-9936

Statutory Declaration Registration of Fittings

(a) Design Qualification

I¹ Mr. Andreas Strauch

(Name of applicant)

Development & Technology Manager

(Position eg, president, plant manager, chief eng.)

of ABB INC.

(name of company)

Located at 3400 Rue Pierre-Ardouin, Québec, QC, G1P 0B2

(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: B 31.1 and B 31.3

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 SGS North America Inc.

The fittings² covered by this declaration, for which I seek registration, are Category - F- fittings for "LLT100" series, Laser Level Transmitter

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

Scope of the registration, proof test report, ISO9001 certificate.

Declared before me at Québec

In the of province of Québec

The 13th day of may AD 2 0 0 6

Gilles Poirier notaire

A (commissioner for oaths)

[Signature]

Signature of Declarer³

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.

Registered Number CRN

0 F 1 8 4 5 5 . 5 6

For the Chief Inspector

Date 12 AOUT 2016

[Signature]

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 of highest official in the manufacturing plan where the fitting is produced.



CRN Scope of Registration for LLT100

Flange Sample description	For Use in Instrument model(s)*	Maximum Working Pressure (MAWP) for ANSI/ISA 12.27.01	Proof Tested Pressure	Maximum Working Pressure (MAWP) to B31.1&31.3 for CRN
FL-8, ASME Class 150 Stainless Steel Flange (SN:1584451-002) (A182 Gr.F316)	LLT100.XXCXXX (Class 150)	128 bar (1856 PSI)	384 bar (5568 PSI)	38.4 bar (556.8 PSI)
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FL-18, ASME Class 150/DIN PN16 Stainless Universal Flange (SN: 1584449-002), with window cemented with Sylgard 567 (Material A-351, Gr. CF3M)	LLT100.XXBXXX	25.3 bar (367PSI)	76 bar (1104 PSI)	7.6 bar (110.4 PSI)

* "X" in instrument model numbers refers to any alpha-numeric character that accounts for construction variations that are NOT subjected to the process pressure. (E.g. Instrument Body, optional display, connection terminals...)

** FL-16 is the same flange than FL-14, except assembled and tested with an alternate cement. This will not result in a different instrument configuration at the end.

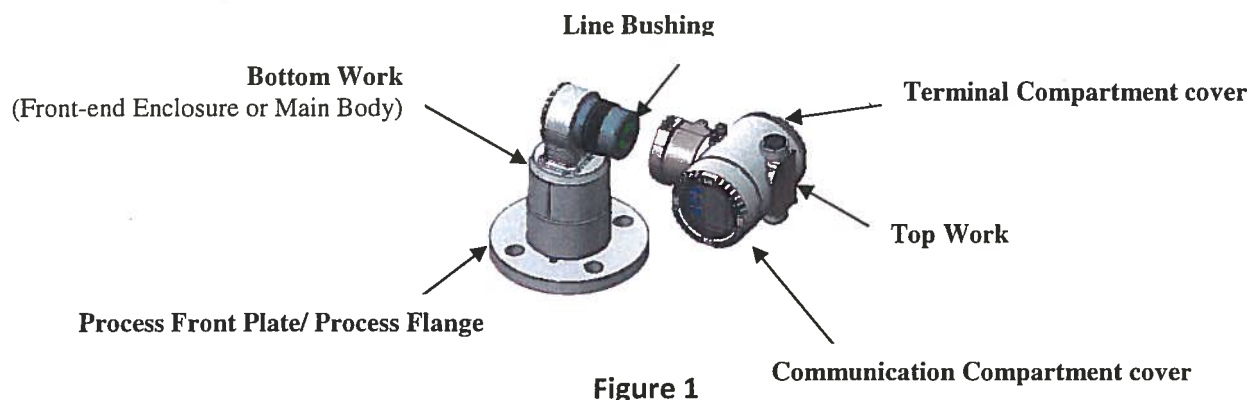
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ABB Inc.

12 AOUT 2016

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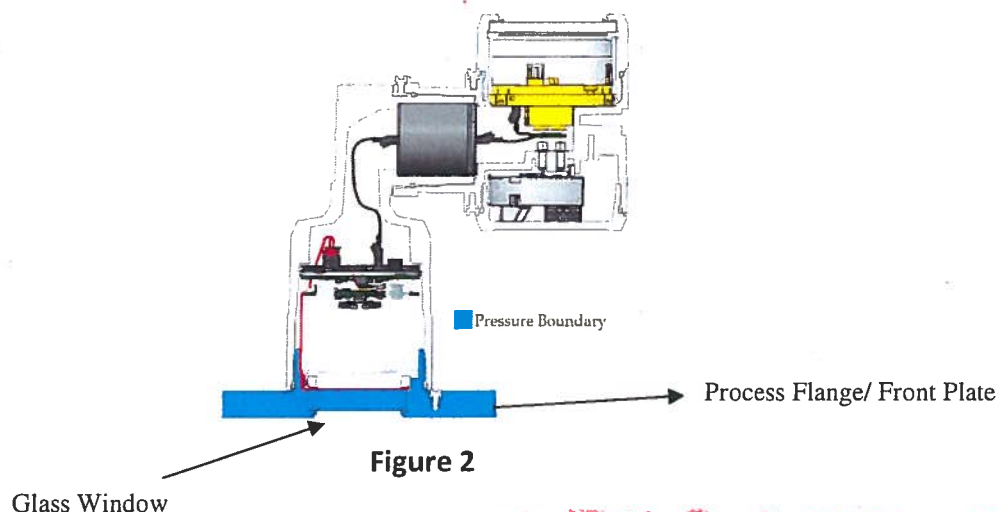
- **Bottom works enclosure:** This is also called Front-End Enclosure or the Main Body
- **Process front plate/ process flange**



2.2 Pressure Boundary Areas

The pressure resisting areas of the product consist of only the process flange and the glass window.

(Figure 2)



2.3 Product Variations

There are some variations in the construction and the materials of construction. The variations in body materials do not require additional testing as the body is not pressure boundary. The major variation in the product range is the material (aluminum or stainless steel), and Pressure class (Class 150/300.600/PN 16 of the process flange and the type of connection between the glass window/sight glass and the process front plate/ process flange. These variations are cemented glass window and fused glass window with a raised face. The variations in the glass type are illustrated in Figure 3 on the following page.

OF18455.56

12 AOUT 2016

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: 3400 Rue Pierre-Ardouin, Québec, Québec, G1P 0B2, CANADA

PLANT LOCATIONS: IDEM

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
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
I Nuclear components: Class 1 ☐ Class 2 ☐ Class 3 ☐ (Meeting CNSC or ASME requirements)

TITLE OF THE STANDARD OF CONSTRUCTION

ASME B31.1 and B31.3

SHOW MANUFACTURERS NAME, TRADEMARK, OR LOGO AS IT WILL APPEAR ON THE PRODUCT

ABB LLT100

TYPE OF CONSTRUCTION

FORGED ☒ WELDED ☐ WROUGHT ☐
CAST ☒ OTHER ☐
DESCRIBE OTHER: Threaded fittings

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

Scope of the registration, proof tests report, ISO9001 certificate.

DECLARATION:

I, Mr. Andreas Strauch (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 11955 North America Inc. as being suitable for the 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 Declarant: [Signature]

Declared before me at: Québec

This 13 day of June, 2016

Commissioner of Public Safety or Notary Public: [Signature]

New Brunswick
DEPT OF PUBLIC SAFETY
BOILER & PRESSURE VESSEL ACT

REGISTRATION ONLY

CRN 0F18455.57

CRN: 0F18455.5

FID#: 15328

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.

EXAMINER: [Signature]

CHIEF BOILER INSPECTOR

DATE: 6/3/2016

☐ BLRs ☐ PVs

☐ FITTINGS ☐ COMPONENTS

Sect. 1.0 - Fittings Rev. 1 06/2003

UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNSNEW BRUNSWICK
NUNAVUTNOVA SCOTIA
YUKONPRINCE EDWARD ISLAND
NORTHWEST TERRITORIES

NEWFOUNDLAND AND LABRADOR

MANUFACTURERS NAME: **ABB INC.**MANUFACTURERS ADDRESS: **3400 Rue Pierre-Ardouin, Québec, Québec, G1P 0B2, CANADA**PLANT LOCATIONS: **IDEM****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
☒ 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 ☐ Class 2 ☐ Class 3 ☐ (Meeting CNSC or ASME requirements)

TITLE OF THE STANDARD OF CONSTRUCTION
ASME B31.1 and B31.3**SHOW MANUFACTURERS NAME, TRADEMARK, OR LOGO AS IT WILL APPEAR ON THE PRODUCT****ABB LLT100****TYPE OF CONSTRUCTION**
 FORGED ☒ WELDED ☐ WROUGHT ☐
 CAST ☒ OTHER ☐
 DESCRIBE OTHER: *Threaded fittings*
LIST OF SUPPORTING DOCUMENTATION AND IDENTIFICATION OF THE ACTUAL ITEMS TO BE REGISTERED:

Scope of the registration, proof tests report, ISO9001 certificate.

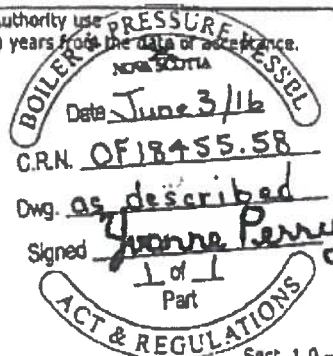
DECLARATION:

I, Mr. Andreas Strauch (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 1905 North America Inc. as being suitable for the 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 Declarant: _____

Declared before me at QuébecThis 13 2016Commissioned by _____
or Notary Public notaireCRN: 0F18455.5FID#: 15328**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
NUNAVUTNOVA SCOTIA
YUKONPRINCE EDWARD ISLAND
NORTHWEST TERRITORIES

NEWFOUNDLAND AND LABRADOR

MANUFACTURERS NAME: ABB INC.	
MANUFACTURERS ADDRESS: 3400 Rue Pierre-Ardouin, Québec, Québec, G1P 0B2, CANADA	
PLANT LOCATIONS: IDEM	
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="radio"/> 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 CNSC or ASME requirements)	TITLE OF THE STANDARD OF CONSTRUCTION ASME B31.1 and B31.3
SHOW MANUFACTURERS NAME, TRADEMARK, OR LOGO AS IT WILL APPEAR ON THE PRODUCT 	TYPE OF CONSTRUCTION FORGED <input checked="" type="checkbox"/> WELDED <input type="checkbox"/> WROUGHT <input type="checkbox"/> CAST <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> DESCRIBE OTHER: <i>Threaded fittings</i>
LIST OF SUPPORTING DOCUMENTATION AND IDENTIFICATION OF THE ACTUAL ITEMS TO BE REGISTERED: Scope of the registration, proof tests report, ISO9001 certificate.	

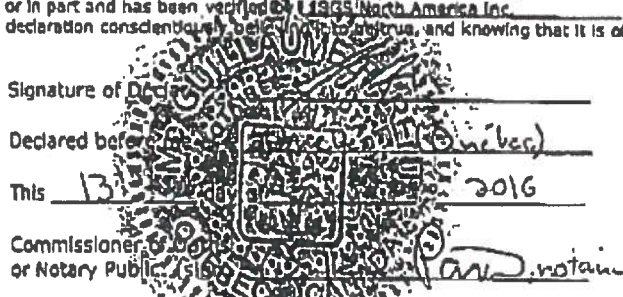
DECLARATION:

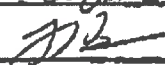
I, Mr. Andreas Strauch (see Note 3) employed by ABB INC. and being the person having full authority and responsibility for the quality of the and product do solemnly declare that the information contained in this form is true and to the best of my knowledge represents the product for which registration 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 ULSAG North America Inc. as being suitable for the 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 Declarant

Declared before me

This

Commissioner of
or Notary Public

This space for Regulatory Authority use The registration must be revalidated after ten (10) years from the date of ACCEPTED	
CRN: <u>0F18455.5</u>	PROVINCE OF PRINCE EDWARD ISLAND COMMUNITIES, LAND & ENVIRONMENT C.R.N. <u>0F18455-59</u> DATE: <u>03 June 2016</u>  INSPECTION SERVICES SECTION BOILER/PRESSURE VESSEL BRANCH Sect. 1.D - Fittings Rev. 1.06/2003
FID#: <u>15328</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: ABB INC.

MANUFACTURERS ADDRESS: 3400 Rue Pierre-Ardouin, Québec, Québec, G1P 0B2, CANADA

PLANT LOCATIONS: IDEM

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
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TITLE OF THE STANDARD OF CONSTRUCTION

ASME B31.1 and B31.3

SHOW MANUFACTURERS NAME, TRADEMARK, OR LOGO AS IT WILL APPEAR ON THE PRODUCT

ABB LLT100

TYPE OF CONSTRUCTION

FORGED ☒ WELDED ☐ WROUGHT ☐
 CAST ☒ OTHER ☐
 DESCRIBE OTHER: Threaded fittings

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

Scope of the registration, proof tests report, ISO9001 certificate.

DECLARATION:

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Signature of Declarant: [Signature]

Declared before me on: 13 Dec 2016

This: 13 Dec 2016

Commissioner of Public Safety or Notary Public: [Signature]

This space for Regulatory Authority use

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

CRN: 0F18455.5

FID#: 15328

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.

Newfoundland
 Labrador
 Service NL
 Registered: 0F18455.50
 Date: 16/06/03
 Engineering and Inspection Services
 Registered by: [Signature]

UNDER THE ANTI-CORRUPTION OF THE
 PUBLIC SAFETY ACT AND
 THE BOILER, PRESSURE VESSEL AND
 COMPRESSED AIR REGULATIONS
 10/2/2013

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: 3400 Rue Pierre-Ardouin, Québec, Québec, G1P 0B2, CANADA	
PLANT LOCATIONS: IDEM	
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="radio"/> 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 CNSC or ASME requirements)	TITLE OF THE STANDARD OF CONSTRUCTION ASME B31.1 and B31.3
SHOW MANUFACTURERS NAME, TRADEMARK, OR LOGO AS IT WILL APPEAR ON THE PRODUCT <div style="font-size: 2em; font-weight: bold;">ABB LLT100</div>	TYPE OF CONSTRUCTION FORGED <input checked="" type="checkbox"/> WELDED <input type="checkbox"/> WROUGHT <input type="checkbox"/> CAST <input type="checkbox"/> OTHER <input type="checkbox"/> DESCRIBE OTHER: <i>Threaded fittings</i>
LIST OF SUPPORTING DOCUMENTATION AND IDENTIFICATION OF THE ACTUAL ITEMS TO BE REGISTERED: Scope of the registration, proof tests report, ISO9001 certificate.	

DECLARATION:

I, Mr. Andreas Stauch (the maker) 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 ABB North America Inc. as being suitable for the 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 Mr. Andreas Stauch

Declared before me at Québec (Québec)

TNS 13 2016

Commissioner or Notary Public Andreas Stauch

CRN: <u>0F18455.5</u> FID#: <u>15328</u>	This space for Regulatory Authority Use Registration must be revalidated after ten (10) years from the date of acceptance. <div style="border: 2px solid black; border-radius: 50%; padding: 10px; text-align: center;"> <p>Northwest Territories</p> <p>REGISTERED</p> <p>UNDER THE AUTHORITY OF THE BOILER AND PRESSURE VESSEL ACT.</p> <p>C.R.N. <u>0F18455.5</u></p> <p>SIGNED <u>[Signature]</u></p> <p>DATE <u>June 26, 2016</u></p> </div>
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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.

DATE June 26, 2016 Rev. 1.06/2003

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: 3400 Rue Pierre-Ardouin, Québec, Québec, G1P 0B2, CANADA

PLANT LOCATIONS: IDEM

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
- ☒ 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 ☐ Class 2 ☐ Class 3 ☐ (Meeting CNSC or ASME requirements)

TITLE OF THE STANDARD OF CONSTRUCTION

ASME B31.1 and B31.3

SHOW MANUFACTURERS NAME, TRADEMARK, OR LOGO AS IT WILL APPEAR ON THE PRODUCT

ABB LLT100

TYPE OF CONSTRUCTION

FORGED ☒ WELDED ☐ WROUGHT ☐
CAST ☐ OTHER ☐
DESCRIBE OTHER: Threaded fittings

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

Scope of the registration, proof tests report, ISO9001 certificate.

DECLARATION:

I, Mr. Andreas Strauch (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 1195 North America Inc. as being suitable for the purpose and I make this solemn declaration conscientiously as being true and correct, and knowing that it is of the same force and effect as if made under oath.

Signature of Andreas Strauch

Declared before me at Québec

This 13 June 2016

Commissioner or Notary Public P. J. Poirier, notaire

This space for Regulatory Authority use

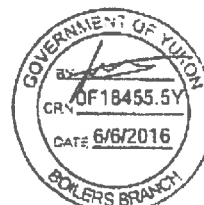
This registration must be revalidated after ten (10) years from the date of acceptance.

CRN: OF18455.5

FID#: 15328

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: **ABB INC.**

MANUFACTURERS ADDRESS: **3400 Rue Pierre-Ardouin, Québec, Québec, G1P 0B2, CANADA**

PLANT LOCATIONS: **IDEM**

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
- ☒ 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 ☐ Class 2 ☐ Class 3 ☐ (Meeting CNSC or ASME requirements)

TITLE OF THE STANDARD OF CONSTRUCTION
ASME B31.1 and B31.3

SHOW MANUFACTURERS NAME, TRADEMARK, OR LOGO AS IT WILL APPEAR ON THE PRODUCT

ABB LLT100

TYPE OF CONSTRUCTION

FORGED ☒ WELDED ☐ WROUGHT ☐
CAST ☒ OTHER ☐
DESCRIBE OTHER: *Threaded fittings*

LIST OF SUPPORTING DOCUMENTATION AND IDENTIFICATION OF THE ACTUAL ITEMS TO BE REGISTERED:
Scope of the registration, proof tests report, ISO9001 certificate.

DECLARATION:

I, Mr. Andreas Strauch (see note 1) 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 USGS North America Inc. as being suitable for the purpose and I make this solemn declaration conscientiously believing the facts to be true, and knowing that it is of the same force and effect as if made under oath.

Signature of Declarant: _____

Declared before me at Québec

This 13 day of June, 2016

Commissioner of the Court of Notaries or Notary Public: [Signature]

CRN: OF18455.5

FID#: 15328

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.

This space for Regulatory Authority use
This registration must be revalidated after ten (10) years from the date of acceptance.

Nunavut

Pre-Registration Act

CRN OF18455.5N

Date June 03, 2016

Signed _____

[Signature]
Director

Sec. 1.0 - Fittings Rev. 1.05/2011

Territorial Registration Fee