

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

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

AAONE
PO BOX 91072 BURNHAMTHORPE ROAD
TORONTO ON M9C 5N5

Date: February 27, 2017

Account #: 58731 Journal #: 67408 Our File #: 5612095

Attn: EMMA SMITH

Re: Application for Design Registration

The design, as detailed in your, A2017-79, for a Fitting is accepted for registration as follows:

Registered To: ABB INC CRN: 0F08154.21

Drawing #: MT5000-000-1 sht 1 to 3 **Drawing Revision:** (as noted by ABSA)

Conditions Of Registration:

Reg'n renewal of Series MT5000, MT51000, MT5200 Series Guided Wave Radar Level Transmitters. 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:

Scope of reg'n: Coupler-C1, C1H, C2, C2H, C3, C4, C4H, C5, C5H, C6, C8 & C9. Ratings per att'd "Table 1". Mat'l of const: SA-479 316, SB-473 N08020 & SB-574 N10276. MDMT: -60 Deg F. CRN also covers the Company name change to ABB Inc. As req'd by CSA B51 4.2.1, this reg'n expires on Feb. 08, 2027. This CRN is valid until the expiry date as long as the Mfr maintains a valid Q.C.program verified by an acceptable 3rd-party agency until that date. Should the cert'n of the Q.C. program lapse before the exp'y date, this reg'n shall become void.

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

SHARON PETERS

boiler.designregistration@safetyauthority.ca Design Administration

cc:

(PROD) 30400-20 GST #: 87391 2802 RT0001



Date: January 12, 2017

CRN Scope of Registration for MT series

MT5000/5100/5200 Level Transmitters

Calculations were performed to determine the minimum burst pressures required to meet the required pressure ratings stated in the current product data sheets (MT5000 0 202-1 Rev. B, MT5100-0202-1 Rev. B, & MT5200-0202-1 Rev. B). Pressure tests were performed to pursue the calculated test pressures required. The required test pressures were achieved for the C1H, C2H, C3, C6, C8, and C9 couplers. The burst pressure calculations and hydrostatic test certificates showing the achieved pressures can be found following this summary.

Note: Regarding the other listed couplers, the C1 and C2 couplers are the exact same design and material of the ClH and C2H couplers respectively. The only difference between the two options is that the ClH and C2H couplers are hydro tested to 3,000 psi prior to shipments. The C4, C4H, C5, and C5H couplers are simply dual probe couplers that are the same pressure bearing design as the C1 and C2 couplers with the only difference being the addition on an additional solid rod running parallel to the probe rod. The C1O has the exact same internal components and material as the C2. Therefore, pressure testing of these respective couplers would be redundant to those tested so it is not required for validation. Results of the pressure ratings based on the test results for all couplers are shown in Table 1.

Table 1 Resultant for MI5000/5100/5200 Coupler Pressure Rating:

Coupler	Test Pressure Required (psig)	Pressure Rating (psig)	Pressure Rating (psig)
Cl	-	1,500 @ 100°F	600 @ 400°F
CIH	13,200	3,000 @ 100°F	1,200 @ 400°F
C2	_	1,500 @ 100°F	600 @ 400°F
C2H	13,200	3,000 @ 100°F	1,200@400°F
C3	228	50 @ 100°F	50 @ 400°F
C4	_	1,500 @ 100°F	600 @ 400°F
C4H		3,000 @ 100°F	1,200 @ 400°F
C5	-	1,500 @ 100°F	600 @400°F
C5H		3,000 @ 100°F	1,200@ 400°F
C6	228	50 @ 100°F	50 @ 400°F
C8	22,000	5,000 @ 100°F	1,500 @ 800°F
C9	10.604	2,000@100°F	2,000 Saturated Steam @ 650°F

Please reissue the CRN approval certificate based on the values shown in Table 1. Submitted by:

Jean-François Ferland

Spécialiste des Certifications & QA

QA & Certification Specialist

ABB Inc, Mesure et analyse – Produits de mesure Measurements & Analytics – Measurement Products

Phone: 1 418 877-2944 ext. 2260

Direct Phone: 1 581 628-2260

Email: jean-francois.ferland@ca.abb.com

ABB Inc.

CRN Scope of Registration for MT series

- Addendum for Plant Locations -



MANUFACTURERS NAME: ABB Inc.

MANUFACTURERS ADDRESS: 3400 rue Pierre - Ardouin , Quebec, QC, G1P 0B2, Canada

Scope of Registration: MT Series - MT 5000/5100/5200 Level Transmitters, renewal of CRN #: 0F08154.2C

PLANT #1 NAME: ABB Inc.

PLANT ADDRESS: 3400 rue Pierre - Ardouin , Quebec, QC, G1P 0B2, Canada

CONTACT NAME: Jean-François Ferland, QA & Certification Specialist

Phone: 1 418 877-2944 Direct: 1 581 628-2260

Email: jean-francois.ferland@ca.abb.com

PLANT ID:

ABB logo, "K-TEK PRODUCTS", and "MADE IN CANADA"

ABB

K-TEK PRODUCTS

MADE IN CANADA

PLANT #2 NAME: ABB - K-TEK PRODUCTS

PLANT ADDRESS: 17100 Manchac Park Lane - Suite B, Baton Rouge, LA, 70817 USA

CONTACT NAME: Eric Fauveau, Corporate Executive Engineer

Phone: +1 225 408 0861 Mobile: +1 225 290 4709

email: eric.fauveau@us.abb.com

PLANT ID:

ABB logo with "K-TEK PRODUCTS" and/or K-TEK logo, and "MADE IN USA"

ABB

K-TEK PRODUCTS



MADE IN USA



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

February 08, 2017

Attention: Emma Smith

AAONE

PO BOX 91072

BURNHAMTHORPE PO

TORONTO, ON M9C 5N5

Email:aaone@rogers.com

The design submission, tracking number 2017-00546, originally received on January 31, 2017 was surveyed and accepted for registration as follows:

CRN:

0F08154.2

Accepted on: February 08, 2017

Reg Type:

Addition to Acc. Fitting

Expiry Date: February 08, 2027

Drawing No.: CRN RENEWAL 0F08154.2 As Noted

Fitting type: GUIDED WAVE RADAR LIQUID LEVEL TRANSMITER

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 is 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.

Scope of registration: Coupler-C1, C1H, C2, C2H, C3, C4, C4H, C5, C5H, C6, C8, & C9. Pressure ratings as per attached "Table 1".

Material of construction: SA-479 316, SB-473 N08020, & SB-574 N10276.

M.D.M.T.: -60 degree F.

CRN also cover the Company name change to ABB Inc.

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

Enclosed are stamped prints for your reference.

Sincerely.

GRYNCHUK, MILLA



Louise Martel



STATUTORY DECLARATION Registration of Fittings





(company title, e.g. vice president, plant manager, chief engineer) (must be in a position of authority)		
(company title, e.g. vice president, praint manager, enter engineer) (must be in a position of authority)		
of ABB Inc.		
(name of manufacturer)		
located at 3400 rue Pierre - Ardouin , Quebec, QC, 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 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 a proprietary standard 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 - ISO 9001:2008 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 Registration - MT Series - MT 5000/5100/5200 Level Transmitters, renewal of CRN: 0F08154.2C		
DECLARED before me at Quelegite in the province of Queles		
this 25" day of January 2017		
(print) Famain Dube (Year) Sound Months		
(sign) Commissioner for Oaths) (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		
Registration Number: 0F08154.2 Grynchuk		
Date Registered: FEB 0 8 2017 (For the Administrator/Chief Inspector of Alberta) Expiry Date: FeB 0 8 2017 Expiry Date: FeB 0 8 2017		

fee aftechments for the scupe and acceptance the



Date: January 12, 2017

CRN Scope of Registration for MT series

MT5000/5100/5200 Level Transmitters

Calculations were performed to determine the minimum burst pressures required to meet the required pressure ratings stated in the current product data sheets (MT5000 0 202-1 Rev. B, MT5100-0202-1 Rev. B, & MT5200-0202-1 Rev. B). Pressure tests were performed to pursue the calculated test pressures required. The required test pressures were achieved for the C1H, C2H, C3, C6, C8, and C9 couplers. The burst pressure calculations and hydrostatic test certificates showing the achieved pressures can be found following this summary.

Note: Regarding the other listed couplers, the C1 and C2 couplers are the exact same design and material of the ClH and C2H couplers respectively. The only difference between the two options is that the ClH and C2H couplers are hydro tested to 3,000 psi prior to shipments. The C4, C4H, C5, and C5H couplers are simply dual probe couplers that are the same pressure bearing design as the Cl and C2 couplers with the only difference being the addition on an additional solid rod running parallel to the probe rod. The ClO has the exact same internal components and material as the C2. Therefore, pressure testing of these respective couplers would be redundant to those tested so it is not required for validation. Results of the pressure ratings based on the test results for all couplers are shown in Table 1.

Table 1 Resultant for MISXXV5100/5200 Coupler Pressure Rating:

Coupler	Test Pressure Required (psig)	Pressure Rating (psig)	Pressure Rating (psig)
Cl		1.500 @ 100°F	600 @ 400 F
CIH	13.200	3,000 @ 100°F	1,200 @ 400°F
C2	_	1.500 @ 100°F	600 @ 400°F
C2H	13,200	3,000 @ 100°F	1,200@400°F
C3	228	50 @ 100°F	50 @ 400°F
C4	<u> </u>	1.500 @ 100°F	600 @ 400 F
C4H		3,000 @_100°F	1.200 @ 400°F
C5		1,500 @ 100°F	600 @ 400°F
C5H		3,000 @ 100°F	1.200@ 400°F
C6	228	50 @ 100°F	50 @ 400°F
C8	22.000	5,000 @ 100°F	1.500 @ 800 F
C9	10,604	2.000@100°F	2.000 Saturated Steam @ 650°F

Please reissue the CRN approval certificate based on the values and in Table 1.

Submitted by:

REGISTRATION OF FITTINGS

OF 08 15 4 . 2

See Scape affection

Jean-François Ferland

Spécialiste des Certifications & QA

QA & Certification Specialist

ABB Inc, Mesure et analyse – Produits de mesure

Measurements & Analytics – Measurements & Analytics – Measurements & Analytics – Measurements & Millia GRYNCHUK, Ponting Design Survey Englished

Phone: 1 418 877-2944 ext. 2260

Direct Phone: 1 581 628-2260

Email: jean-françois.ferland@ca.abb.com

ABB Inc.



CRN Scope of Registration for MT series

- Addendum for Plant Locations -

MANUFACTURERS NAME: ABB Inc.

MANUFACTURERS ADDRESS: 3400 rue Pierre - Ardouin , Quebec, QC, G1P 0B2, Canada

Scope of Registration: MT Series - MT 5000/5100/5200 Level Transmitters, renewal of CRN #: 0F08154.2C

PLANT #1 NAME: ABB Inc.

PLANT ADDRESS: 3400 rue Pierre - Ardouin , Quebec, QC, G1P 0B2, Canada

CONTACT NAME: Jean-François Ferland, QA & Certification Specialist

Phone: 1 418 877-2944 Direct: 1 581 628-2260

Email: jean-francols.ferland@ca.abb.com

PLANT ID:

ABB logo, "K-TEK PRODUCTS", and "MADE IN CANADA"

ABB

K-TEK PRODUCTS

MADE IN CANADA

PLANT #2 NAME: ABB - K-TEK PRODUCTS

PLANT ADDRESS: 17100 Manchac Park Lane - Suite B, Baton Rouge, LA, 70817 USA

CONTACT NAME: Eric Fauveau, Corporate Executive Engineer

Phone: +1 225 408 0861 Mobile: +1 225 290 4709 email: eric,fauveau@us.abb.com PLANT ID:

ABB logo with "K-TEK PRODUCTS" and/or K-TEK logo, and "MADE IN USA"

ABB

K-TEK PRODUCTS



MADE IN USA

Off Daying.

ABB Inc.

3BOM000142D0743 rev A



To:	Louise Martel	From:	Janet Townsend
Company:	ABB Inc.	Phone:	416-747-4291
Pages:	8	Location:	Toronto
Our File:	ANR-4393	Date:	March 9, 2017

Your File: MT2017

Subject: Request for Design Registration

Dear Louise Martel,

CSA has reviewed the documentation submitted by ABB Inc . These fittings have been registered by CSA for the Province of Québec. In accordance with an agreement between CSA, the Provinces of Québec and Saskatchewan; this registration is recognized by Quebec and Saskatchewan. These fittings are acceptable for use in these Provinces.

The letters CSA will be applied as a prefix to the CRN indicate which fittings have been registered in this manner. A copy of the stamped Statutory Declaration is attached.

The CRN is CSA-0F08154.26.

A copy of the Statutory Declaration with an original stamp affixed will be forwarded to you along with our invoice by regular mail.

Yours truly

Janet Townsend Account Manager CSA Group

janet.townsend@csagroup.org

www.csagroup.org

Régie du bătiment Québec E3 E3



Statutory Declaration Registration of Fittings REGISTERED (a) Design Qualification CRN: CSA - OF 0815 **Louise Martel** (Name of applicant) Quality Director (Position eg, president, plant manager, chief ingigistration Process auministered by CSA Group per CSA B51 ABB Inc. (name of company) 3400 rue Pierre - Ardouin , Quebec, QC, 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, material, identification & service for which are required: ASME 631.3 Ог X are not covered by the provisions of the ANSI/ASME codes, and are therefore constructed to comply with a proprietary 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 and has been verified by the following authority or authorized agency SGS 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: Scope of Registration - MT Series - MT 5000/5100/5200 Level Transmitters, renewal of CRN: 0F08154 Declared before me at In the of AD 2 0 0 ommissioner for deths For Official Use Only \ct

	Date MARCH	08 2017	in make #11
Registered Number CRN CSA-OF08154.26	For the Chi ef Inspect	a America	A. BANWATT
This registration must be revalidated after ten (10) years from the CEXPIRY DATE: FEB.08.2027	date of acceptance.	700	
The application is accepted for registration in Categoryl and CSA Standard B51.	in accordance wi	th the Boilers and Pro	essure Vessels Act

Three completed copied of Statutory Declaration form together with three copies of Catalogs, drawings of Bulletins illustrating above fittings shall be submitted.

All fittings are required to be registered in the name of the Manufacturer.
 This form shall be completed and signed by the president of highest official in the manufacturing plan where the fitting is produced.



2202 2nd Ave.
Regine, SK S4R 1K3
PH: (308)798-7112 Toll Free: (866)530-8599
FAX: (306)787-9273 Toll Free: (866)780-9255
Email: bollememite@teak.ca
Website: www.tsak.ca

Statutory Declaration (Registration of Filings)

		TSK-1008
I. Declaration Information		
Louise Martel		In this space, show facsimile of
Quality Director		manufacturer's logo or trademark as it will appear on the fitting.
(company title, e.g. vice president, plant mans (must be in a position of authority in the manufacturing pla	iger, chief engineer)	AL IID IID /
of: ABB Inc.	int where the ming is produced)	KIEK
(name of manufactur	er)	
located at: 3400 rue Pierre - Ardouin , Quebec	, QC, G1P 0B2, Canada	
(Plant Address - Apt/Street)	(City,Prov)	(Postal Code)
do solemnly declare that the fittings listed hereinun Vessel Safety Act (check one)	ider, which are subject to the Saska	tchewan Boller and Pressure
O Comply with the requirements of (100 or reco	onized North American Standard)	specifies the dimensions,
Materials of construction, pressure / tempera	ature ratings and identification marki	ng of the fittings, or
Are not covered by the provisions of a recog	nized North American standard and	are therefore manufactured
to comply with a proprietary standard		as supported by the attached
data which identifies the dimensions, materi	als of construction, pressure / tempe	rature ratings and the basis
for such ratings, and the marking of the fittin	gs for identification.	-
I further declare that the manufacturer of these fitting	ngs is controlled by a quality control	program which has been
verified by the following authority, SGS - ISO 90		suitable for the manufacturer
of these fittings to the stated standard. The fittings		
Category F		
In support of this application, the following informat	ion, calculations and / or test data a	re attached:
Scope of Registration - MT Series - MT 5000/51		
	178	= = <u>-</u>
II. Declaration		
DECLARED before me at Chrele cuty	In the prevince	of Aneles
this 25 day of January	2017-	1-11)
ROMAIN DUBE	Mouro do	Mary
(print name)	(Signature)	The state of the s
Landin Pate 19	OISR / IR	
(Signature of Commissioner of Oaths)	.512	
III. Office Use Only	TO THE REAL PROPERTY OF THE PARTY OF THE PAR	TAKE THE RESERVE T
To the best of my knowledge and belief, the application n	neets the requirements of the Boiler and	d Pressure Vessel Safety Act and
CSA B51, Clause 4.2, and is accepted for registration in	Category + MARCH-08-2017-	FEQ 80 0000
(Registration Number)	(Date Registered – MM DD YYYY)	FEB · 08 · 2027 (Expiry Date - MM DD YYYY)
REGISTERED GEA GROUP	(For the Administrator / Chief Inspector)	A. BANWATT
	rsA \	
CRN: CSA - OF08154.26	Note: T. (This registration is based on CSA B	51 reciprocal policy.

Registration Process administered by CSA Group per CSA B51

2.3 See attachment as the scope of registration.
3. Renewal registration without design change.

TSK-1008 Rev. 09/2012 Page 1 of 1



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

February 08, 2017

Attention: Emma Smith

AAONE

PO BOX 91072

BURNHAMTHORPE PO TORONTO, ON M9C 5N5 Email:aaone@rogers.com

The design submission, tracking number 2017-00546, originally received on January 31, 2017 was surveyed and accepted for registration as follows:

CRN:

OF08154.2

Accepted on: February 08, 2017

Reg Type:

Addition to Acc. Fitting

Expiry Date: February 08, 2027

Drawing No.: CRN RENEWAL 0F08154.2 As Noted

Fitting type: GUIDED WAVE RADAR LIQUID LEVEL TRANSMITER

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 is 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.

Scope of registration: Coupler-C1, C1H, C2, C2H, C3, C4, C4H, C5, C5H, C6, C8, & C9. Pressure ratings as per attached "Table 1".

Material of construction: SA-479 316, SB-473 N08020, & SB-574 N10276.

M.D.M.T.: -60 degree F.

CRN also cover the Company name change to ABB Inc.

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

Enclosed are stamped prints for your reference.

Sincerely,

GRYNCHUK, MILLA

ATTACHMENT TO 178 Rexdale Boulevard, Terento, UN Canada M9W 1R3



CRN Scope of Registration for MT series

- Addendum for Plant Locations -

MANUFACTURERS NAME: ABB Inc.

MANUFACTURERS ADDRESS: 3400 rue Pierre - Ardouin , Quebec, QC, G1P 082, Canada

Scope of Registration: MT Series - MT 5000/5100/5200 Level Transmitters, renewal of CRN #: 0F08154.2C

PLANT #1 NAME: ABB Inc.

PLANT ADDRESS: 3400 rue Pierre - Ardouin , Quebec, QC, G1P 082, Canada

CONTACT NAME: Jean-François Ferland, QA & Certification Specialist

Phone: 1 418 877-2944 Direct: 1 581 628-2260

Email: <u>lean-francols.ferland@ca.abb.com</u>

PLANT ID:

+

ABB logo, "K-TEK PRODUCTS", and "MADE IN CANADA"

ABB

K-TEK PRODUCTS

MADE IN CANADA

PLANT #2 NAME: ABB - K-TEK PRODUCTS

PLANT ADDRESS: 17100 Manchac Park Lane - Suite B, Baton Rouge, LA, 70817 USA

CONTACT NAME: Eric Fauveau, Corporate Executive Engineer

Phone: +1 225 408 0861 Mobile: +1 225 290 4709 email: <u>eric,fauveau@us.abb.com</u> PLANT ID:

ABB logo with "K-TEK PRODUCTS" and/or K-TEK logo, and "MADE IN

ABB

K-TEK PRODUCTS



MADE IN USA



ATTACHMENT TO

CRN.CSA-OFO8154.

Signed

178 Rexdate Boulevaro. (crosso, UNI Canada M9W 1R3

OROQ IND.

ABB Inc.

380M000142D0743 rev A



Date: January 12, 2017

CRN Scope of Registration for MT series

MT5000/5100/5200 Level Transmitters

Calculations were performed to determine the minimum burst pressures required to meet the required pressure ratings stated in the current product data sheets (MT5000 0 202-1 Rev. B, MT5100-0202-1 Rev. B). Pressure tests were performed to pursue the calculated test pressures required. The required test pressures were achieved for the C1H, C2H, C3, C6, C8, and C9 couplers. The burst pressure calculations and hydrostatic test certificates showing the achieved pressures can be found following this summary.

Note: Regarding the other listed couplers, the C1 and C2 couplers are the exact same design and material of the C1H and C2H couplers respectively. The only difference between the two options is that the C1H and C2H couplers are hydro tested to 3,000 psi prior to shipments. The C4, C4H, C5, and C5H couplers are simply dual probe couplers that are the same pressure bearing design as the C1 and C2 couplers with the only difference being the addition on an additional solid rod running parallel to the probe rod. The C1O has the exact same internal components and material as the C2. Therefore, pressure testing of these respective couplers would be redundant to those tested so it is not required for validation. Results of the pressure ratings based on the test results for all couplers are shown in Table 1.

Table 1 Resultant for MIRODY5100/5200 Coupler Pressure Rating:

Coupler	Test Pressure Required (psig)	Pressure Rating (psig)	Pressure Rating (psig)
Cl	•	1.500 @ 100°F	600 € 400 F
CIH	13.200	3.000 @ 100°F	1,200 @ 400°F
C2	-	1.500 @ 100 F	600 @ 400 F
C211	13.200	3.000 @ 100°F	1,200@400 F
C3	228	50 @ 100°F	50 & 400°F
C4		1.500 @ 100°F	600 @ 400 F
C411		3,000 @ 100°F	1,200 @ 400 F
C5	-	1,500 @ 100°F	600 @400°F
C5H	-	3.000 @ 100°F	1.200 € 400°F
C6	228	50 @ 100°F	50 @ 400°F
C8	22.000	5,000 @ 100°F	1.500 @ 800 F
C9	10.604	2.000@100°F	2.000 Saturated Steam @ 650°F

Please reissue the CRN approval certificate based on the values fixto in Table 1. PROVINCE OF A! Submitted by: E120 OF CAT. NO Jean-François Ferland UID LEVE Spécialiste des Certifications & QA QA & Certification Specialist OF FITTINGS Valenado M9W IR3 ABB Inc. Mesure et analyse - Produi Measurements & Analytics - Measure MILLA GRYNCHUK, P DESIGN SURVEY ENGILL H Phone: 1 418 877-2944 ext. 2260 Direct Phone: 1 581 628-2250 Email: lean-francols.ferland@ca.abb.com

ABB Inc.

3BOM000142D0743 rev A



Certificat(e) CA95/097

The management system of Le système de gestion de

ABB Inc.

3400, rue Pierre-Ardouin Québec (Québec) G1P 0B2, Canada

has been assessed and certified as meeting the requirements of: a été évalué et enregistré selon les exigences de la norme:

ISO 9001:2008

The scope of registration is as follows: La portée d'enregistrement est présentée ci-dessous:

Conception, fabrication et mise en marché des systèmes analytiques et des produits pour la mesure de niveau pour différentes applications et industries à travers le monde.

Design, manufacturing and market of analytical systems and products for level measurement for different applications and industries

Further clarifications regarding the scope of this certificate and the applicability of ISO 9001:2008 requirements may be obtained by consulting the organization. Des éclaircissements supplémentaires concernant la portée de ce certificat ainsi que l'applicabilité des exigences de la norme selon ISO 9001:2008 peuvent être obtenus en consultant l'organisme.

This certificate is valid from 22 February 2016 until 26 March 2018 and remains valid subject to satisfactory surveillance audits. Recertification audit due a minimum of 60 days before the expiration date. Issue 6: 22 February 2016. Certified since June 2005. Ce certificat est valide du 22 février 2016 au 26 mars 2018 et demeurera valide sous réserve du bon maintien des audits de surveillance. L'audit de renouveillement est dû au minimum 60 jours avant la date d'échéance. Édition 6: 22 février 2016. Enregistrée depuis juin 2005.

Authorised by :/Autorisé par.

John Woodman Senior Vice President SSC, North America

Accredited Office/Bureau accredited SGS Systems & Services Certification, a Division of SGS North America, Inc. 201 Route 17 North, Rutherford, NJ 07070, USA t (201) 508-3000 f (201) 935-4555 www.us.sgs.com

This certificate remains the property of SGS and shall be returned upon request Ce certificat demeure la propriété de SGS et sera restourné sur demande







MANAGEMENT SYSTEM CERTIFICATE

Certificate No: CERT-1734-2004-AQ-HOU-RvA Initial certification date: 15, December, 1995

valid: 14, March, 2016 - 15, September, 2018

This is to certify that the management system of

ABB, Inc.

17100 Manchac Park Lane, Suite B, Baton Rouge, LA, 70817, USA

has been found to conform to the Quality Management System standard:

ISO 9001:2008

This certificate is valid for the following scope:

Design and Manufacture of Liquid and Solid Measurement Instrumentation and Control Equipment, Process Equipment and Associated Products.

Place and date: Katy, TX, 14, March, 2016



The RvA is a signatory to the IAF MLA

For the issuing office:
DNV GL - Business Assurance
1400 Ravello Drive, Katy, TX, 77449-5164,

John C Stefan Management Representative



Princeton Burylons 330 - 1855 Victorin Avenue Regins, Sarkulcheway 54P 3 V 7

787-4509

April 23, 1998

Re: Fittings Registration

The Province of Saskatchewan will be participating with Quebec, Manitoba and the Canadian Standards Association (CSA) in a pilot project for the registration of fittings. We will recognize registrations done by CSA and accept such fittings for use in Saskatchewan.

The letters CSA will be applied as a prefix to the CRN to indicate which fittings have been registered in this manner. I would appreciate if you could inform your clients of this additional marking requirement.

You may also inform your clients that fittings registered by CSA are accepted for use in Saskatchewan.

N. Surtege, P. Eng.

Yours truly

Executive Director



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

April 19, 2017

AAOne P.O. Box 91072, Burnhamthorpe Rd. Toronto, ON M9C 5N5

Attn: Emma Smith

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
MT SERIES LEVEL TRANSMITTERS MT5000.51000/52000	0F08154.24	37553

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: ABSA. This registration expires February 19, 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



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



STATUTORY DECLARATION **REGISTRATION OF FITTINGS**

(a)	Design Qualification
1	Louise Martel
	Quality Director
	(Position e.g.; president, plant manager, chief eng.)
	of ABB Inc.
	(Name of company)
	Located3400 rue Pierre - Ardouin, Quebec, QC, G1P 0B2, Canada(Plant Address)
	do solemnly declare that the fittings listed hereunder, which are subject to the Boilers & Pressure Vessels Act,
or	comply with 1331.3 all the requirements of the ANSI/ASME codes as to their dimensions.
	are not covered by the provisions of the ANSI/ASME codes, and are therefore constructed to comply with a proprietary standard 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 <u>ISO 9001:2008</u> and has been verified by the following authority or authorized agency <u>SGS</u>
	The fittings covered by this declaration, for which I seek registration, are
În suppo	rt of the application, the following information, calculations and/or test data are attached:
	Scope of Registration - MT Series - MT 5000/5100/5200 Level Transmitters, renewal of CRN: 0F08154.2
Declared	before me at Puelos City in the province/state of Auele the 25
day of	Romain Pula Romain Delse Hours Martel
	A (commissioner for oaths) Signature of Declarer
	(For Official Use Only) ication is accepted for registration in Category in accordance with the Boilers and Pressure Vessels Act Standard B51.
	stration must be revalidated after ten (10) years from the date of acceptance. PIRES: FEB 8, 2027
	For the Chief Inspector Date: 401/19, 10/7

- 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.



Date: January 12, 2017

CRN Scope of Registration for MT series

MT5000/5100/5200 Level Transmitters

Calculations were performed to determine the minimum burst pressures required to meet the required pressure ratings stated in the current product data sheets (MT5000-0.202-1 Rev. B. MT5100-0.202-1 Rev. B. & MT5200-0.202-1 Rev. B). Pressure tests were performed to pursue the calculated test pressures required. The required test pressures were achieved for the C1H, C2H, C3, C6, C8, and C9 couplers. The burst pressure calculations and hydrostatic test certificates showing the achieved pressures can be found following this summary.

Note: Regarding the other listed couplers, the C1 and C2 couplers are the exact same design and material of the C1H and C2H couplers respectively. The only difference between the two options is that the C1H and C2H couplers are hydro tested to 3,000 psi prior to shipments. The C4, C4H, C5, and C5H couplers are simply dual probe couplers that are the same pressure bearing design as the C1 and C2 couplers with the only difference being the addition on an additional solid rod running parallel to the probe rod. The C1O has the exact same internal components and material as the C2. Therefore, pressure testing of these respective couplers would be redundant to those tested so it is not required for validation. Results of the pressure ratings based on the test results for all couplers are shown in Table 1.

Table 1 Resultant for MIRIXX5100/5200 Coupler Pressure Rating:

Coupler	Test Pressure Required (psig)	Pressure Rating (psig)	Pressure Rating (psig)
CI	-	1.500 @ 100°F	600 @ 400 F
CIH	13.200	3.000 @ 100°F	1,200 @ 400°F
C2		1.500 @ 100°F	600 @ 400 F
C2H	13,200	3.000 @ 100°F	1.200 @ 400 F
C3	228	50 @ 100°F	50 @ 400°F
C4		1.500 @ 100°F	600 @ 400 F
C4H		3.000 @ 100°F	1.200 € 400 F
C5		1.500 @ 100°F	600 @ 400 F
C5H		3.000 @ 100°F	1.200@ 400°F
C6	228	50 @ 100°F	50 @ 400 F
C8	22.000	5.000 @ 100°F	1.500 @ 800 F
C9	10.604	2.000@100°F	2.000 Saturated Steam @ 650°F

Please reissue the CRN approval certificate based on the values shown in Table 1.

Submitted by:

Jean-François Ferland

Spécialiste des Certifications & QA

OA & Certification Specialist

ABB Inc, Mesure et analyse – Produits de mesure Measurements & Analytics – Measurement Products

Phone: 1 418 877-2944 ext. 2260 Direct Phone: 1 581 628-2260

Email: jean-francois.ferland@ca.abb.com

Inspector & Chapter for The Tochnical Sandora Commiss Monitors

Monitors

THIS IS PART OF CRIM



CRN Scope of Registration for MT series

- Addendum for Plant Locations -

MANUFACTURERS NAME: ABB Inc.

MANUFACTURERS ADDRESS: 3400 rue Pierre - Ardouin , Quebec, QC, G1P 082, Canada

Scope of Registration: MT Series - MT 5000/5100/5200 Level Transmitters, renewal of CRN #: 0F08154.2C

PLANT #1 NAME: ABB Inc.

PLANT ADDRESS: 3400 rue Pierre - Ardouin , Quebec, QC, G1P 0B2, Canada

CONTACT NAME: Jean-François Ferland, QA & Certification Specialist

Phone: 1 418 877-2944 Direct: 1 581 628-2260

Email: jean-francois.ferland@ca.abb.com

PLANT ID:

ABB logo, "K-TEK PRODUCTS", and "MADE IN CANADA"

ABB

K-TEK PRODUCTS

MADE IN CANADA

PLANT #2 NAME: ABB - K-TEK PRODUCTS

PLANT ADDRESS: 17100 Manchac Park Lane - Suite B, Baton Rouge, LA, 70817 USA

CONTACT NAME: Eric Fauveau, Corporate Executive Engineer

Phone: +1 225 408 0861 Mobile: +1 225 290 4709 email: <u>eric.fauveau@us.abb.com</u> PLANT ID:

ABB logo with "K-TEK PRODUCTS" and/or K-TEK logo, and "MADE IN USA"

ABB

K-TEK PRODUCTS



MADE IN USA

COPY

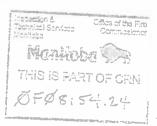


ABB Inc.



Press releases
Of July 8, 2010

2017-02-07



ABB completes acquisition of K-TEK

- Integration of instrumentation maker expected to boost offering for oil and gas, water markets

Houston, Texas, July 8, 2010 – ABB, the global power and automation technology group, announced today it has completed its acquisition of Prairieville, Louisiana company K-TEK, which becomes part of the Measurement Products business unit within ABB's Process Automation division.

With over 350,000 installations since its founding in 1975, K-TEK is recognized as a global leader in level detection technology. The operation employs more than 250 people with facilities in China. Netherlands, India and South Africa in addition to the US.

Veli-Matti Reinikkala, head of ABB's Process Automation division, noted K- TEK's leadership position in the oil and gas industry, where ABB has a large installed base.

"This acquisition will provide our mutual customers in oil and gas, water and other industries with access to an expanded range of leading-edge instrumentation and sensing technologies." he said, "We see a lot of potential for synergy between ABB's extensive geographic reach and exposure to other industries, and K-TEK's depth in level detection technology."

The acquisition is in line with ABB's strategy to pursue growth opportunities that complement the company's product, technology and geographical portfolio.

ABB (www.abb.com) is a leader in power and automation technologies that enable utility and industry customers to improve their performance while lowering environmental impact. The ABB Group of companies operates in around 100 countries and employs more than 117,000 people.





Contactez-nous

Page information:

Laura Patrick

http://www.abb.ca/cawo/seitp202/5beaefc4983ecc518525775a004347b7_aspx

ABB Inc.

3BOM000142D0743 rev A



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

March 13, 2017

EMMA SMITH AAONE PO BOX 91072 BURNHAMTHORPE PO TORONTO ON M9C 5N5 CA

Service Request Type: BPV-Fitting Registration

Service Request No.: 2025380 Your Reference No.: A2017-79

Registered to: ABB INC

Dear EMMA SMITH,

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

CRN No.:

0F08154.25R1

Main Design No.:

SCOPE OF REGISTRATION FOR MT - SERIES MT5000/5100/5200 LEVEL

TRANSMITTERS

Expiry Date:

08-Feb-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,

Charley Dong, M.Sc. P.Eng.

Mechanical Engineer

Tel.: 416-734-3436 Fax: 416-231-6183 Email: cdong@tssa.org



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





STATUTORY DECLARATION **Registration of Fittings** Louise Martel, Quality Director (Name and Position, e.g. President, Plant Manager, Chief Engineer) of ABB Inc (Name of Manufacturer) Located at 3400 rue Pierre - Ardouin , Quebec, QC, G1P 0B2, Canada 418-877-2944 418-877-2834 (Plant Address) (Telephone No.) (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 (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 a proprietary standard 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 ISO 9001:2008 which has been verified by the following authority. SGS The items covered by this declaration, for which I seek registration, are category. Category F. type fittings. In support of this application, the following information and/or test data are attached as follows: Scope of Registration - MT Series - MT 5000/5100/5200 Level Transmitters, renewal of CRN: 0F08154.2 (drawings, calculations, test reports, etc.) Declared before me at Commissioner for Oaths: Printed name (Signature of Declarer) (Signature) FOR OFFICE USE ONLY Technical Boilers and To the best of my knowledge and belief, the application meets the requirements of the Standards Pressure Vessels and Safety Technical Standards and Safety Act, Boilers and Pressure Vessels Regulation, and Safety Program Authority CSA Standard B51 and is accepted for registration in Category NOTE: SEE ATTACHED REGISTERED CRN: PART OF CRN FR Registered by: Dated:

NOTE: This registration expires on:



Date: January 12, 2017

CRN Scope of Registration for MT series

MT5000/5100/5200 Level Transmitters

Calculations were performed to determine the minimum burst pressures required to meet the required pressure ratings stated in the current product data sheets (MT5000-0202-1 Rev. B. MT5100-0202-1 Rev. B. & MT5200-0202-1 Rev. B). Pressure tests were performed to pursue the calculated test pressures required. The required test pressures were achieved for the C1H, C2H, C3, C6, C8, and C9 couplers. The burst pressure calculations and hydrostatic test certificates showing the achieved pressures can be found following this summary.

Note: Regarding the other listed couplers, the C1 and C2 couplers are the exact same design and material of the C1H and C2H couplers respectively. The only difference between the two options is that the C1H and C2H couplers are hydro tested to 3,000 psi prior to shipments. The C4, C4H, C5, and C5H couplers are simply dual probe couplers that are the same pressure bearing design as the C1 and C2 couplers with the only difference being the addition on an additional solid rod running parallel to the probe rod. The C1O has the exact same internal components and material as the C2. Therefore, pressure testing of these respective couplers would be redundant to those tested so it is not required for validation. Results of the pressure ratings based on the test results for all couplers are shown in Table 1.

Table 1 Resultant for M1500/5100/5200 Coupler Pressure Rating:

Coupler	Test Pressure Required (psig)	Pressure Rating (psig)	Pressure Rating (psig)
CI	-	1.500 @ 100°F	600 @ 400 F
CIH	13.200	3,000 @ 100°F	1,200 @ 400°F
C2	•	1.500 @ 100°F	600 @ 400°F
C211	13.200	3.000 @ 100°F	1.200@400°F
C3	228	50 @ 100°F	50 @ 400°F
C4		1.500 @ 100°F	600 @ 400 F
C4H		3.000 @_100°F	1.200 @ 400 F
C5		1.500 @ 100°F	600 @400°F
C5H	-	3,000 @ 100°F	1.200@ 400°F
C6	228	50 @ 100°F	50 @ 400 F
C8	22.000	5,000 @ 100°F	1.500 @ 800 F
C9	10,604	2.000@100°F	2.000 Saturated Steam @ 650°F

Please reissue the CRN approval certificate based on the values shown in Table I. Submitted by:

Jean-François Ferland
Spécialiste des Certifications & QA

QA & Certification Specialist

ABB Inc, Mesure et analyse – Produits de mesure Measurements & Analytics – Measurement Products

Phone: 1 418 877-2944 ext. 2260 Direct Phone: 1 581 628-2260

Email: jean-francois.ferland@ca.abb.com

THIS IS PART OF CRN 0F08154-25R1

Technical Standards & Safety Authority
Boilers & Pressure Vessels
Cafety Pericion

ABB Inc.



CRN Scope of Registration for MT series

- Addendum for Plant Locations -

MANUFACTURERS NAME: ABB Inc.

MANUFACTURERS ADDRESS: 3400 rue Pierre - Ardouin , Quebec, QC, G1P 0B2, Canada

Scope of Registration: MT Series - MT 5000/5100/5200 Level Transmitters, renewal of CRN #: 0F08154.2C

PLANT #1 NAME: ABB Inc.

PLANT ADDRESS: 3400 rue Pierre - Ardouin , Quebec, QC, G1P 0B2, Canada

CONTACT NAME: Jean-François Ferland, QA & Certification Specialist

Phone: 1 418 877-2944 Direct: 1 581 628-2260

Email: jean-francois.ferland@ca.abb.com

PLANT ID:

ABB logo, "K-TEK PRODUCTS", and "MADE IN CANADA"

ABB

K-TEK PRODUCTS

MADE IN CANADA

PLANT #2 NAME: ABB - K-TEK PRODUCTS

PLANT ADDRESS: 17100 Manchac Park Lane - Suite B, Baton Rouge, LA, 70817 USA

CONTACT NAME: Eric Fauveau, Corporate Executive Engineer

Phone: +1 225 408 0861 Mobile: +1 225 290 4709 email: <u>eric.fauveau@us.abb.com</u> PLANT ID:

ABB logo with "K-TEK PRODUCTS" and/or K-TEK logo, and "MADE IN USA"



K-TEK PRODUCTS



MADE IN USA

NEW B	BRUNSWICE
NUNA	VUT

NOVA SCOTIA YUKON

PRINCE EDWARD ISLAND NORTHWEST TERRITORIES

NEWFOUNDLAND AND LABRADOR

MANUFACTURERS NAME: ABB Inc.	
MANUFACTURERS ADDRESS: 3400 rue Pierre - Ardouin , Quebec, QC,	
PLANT LOCATIONS: 17100 Manchac Park lane, Suite B, Baton Rouge	, LA, 70817 USA
CATEGORY OF FITTINGS TO BE REGISTERED. CIRCLE ONE CA	ATEGORY ONLY IIILE OF THE STANDARD OF CONSTRUCTION a proprietary standard
A Pipe fittings, including couplings, tees, elbows, Ys, plugs, unions, pipe caps, of Flanges: all flanges C Valves: all line valves D Expansion joints, flaxible connections, and hose assemblies: all types	or reducers
Strainers, filters, separators, and steam traps Measuring devices, including pressure gauges, level gauges, sight glasses, level gauges, sight ga	
H Pressure retaining components that do not fall into one of the above categori N Nuclear components: Class 1	les
SHOW MANUFACTURERS NAME, TRADEMARK, OR LOGO AS IT WILL APPEAR O	N THE PRODUCT TYPE OF CONSTRUCTION
ABB KIEK	FORGED WELDED WROUGHT CAST OTHER DESCRIBE OTHER!
Louise Martel	mation contained in this form is true and to the best of nsions, materials of construction, pressure in named standards. I further declare that the manufacture plant where fabrication occurs in whole litable for the purpose and I make this soleme.
Commissioner of Oaths r Notary Public: (sign)	uthority use
This registration must be revalidated after ten (10)	years from the date of CCEPTED
CRN:OFO8154_2_ADD	PROVINCE OF PRINCE EDWARD ISLAND COMMUNITIES, LAND & ENVIRONMENT
FID#:15328	C.R.N. 0 F 08154. 29 AOD
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.	DATE: Hours 3 2017
 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. 	INSPICTION SERVICES SECTION BOILER PRESSURE VESSEL BRANCH, 1 06/2003

NEW BRUNSWICK

NOVA SCOTIA

sect. 1.0 - Fittings Rev. 1 06/2003

NUNAVUT	YUKON	NORTHWEST TERRITOR		WFOUNDLAND AND LABRADOR
MANUFACTURERS NAME	: ABB Inc.		1	
ANUFACTURERS ADDI	RESS: 3400 rue Plerre	- Ardouin , Quebec, QC, G1P	082, Canada	
		ie, Sulte B, Baton Rouge, LA,		
		ERED. CIRCLE ONE CATEG		TITLE OF THE STANDARD OF CONSTRUCTION
Pipe fittings, including of Flanges: all flanges Valves: all flan valves Expansion joints, flexible Strainers, filters, separate Measuring devices, inclusives and the pressure transmitters Certified capacity-rated boilers, pressure vesse	econnections, and hose a stors, and steam traps adding pressure gauges, lev pressure relief devices ac sis, piping and fusible plug	s, plugs, unions, pipe caps, or red assemblies: all types vel gauges, sight glasses, levels, cceptable as primary over pressur	ducers	a proprietary standard
Pressure retaining com	ponents that do not fall in	to one of the above categories ass 3 , (Meeting CNSC or ASME	. x	
HOW MANUFACTURERS	NAME, TRADEMARK, OR L	OGO AS IT WILL APPEAR ON TH	requirements)	TYPE OF CONSTRUCTION
ALIRE	Ki	EK/		FORGED WELDED WROUGHT CAST OTHER DESCRIBE OTHER:
ECLARATION:	(see note 3) and	alaund by ana ta-	41.	
esponsibility for the quality by knowledge represents ti emperature ratings, and id f these fittings is regulated or in part and has been ver	r of the end product do so the product for which regis entification markings are if by a Quality Control Pro- lifted by SGS - ISO	tration is sought. The dimension	ion contained in the ns, materials of co amed standards. I at where fabrication ie for the purpose	his form is true and to the best of instruction, pressure i further declare that the manufacture in occurs in whole and I make this solemo.
ilgnature of Declarer: Declared before me at a	Dawy	MorteX	en An	
gou	of Janseny 10	219	**	
Commissioner of Oaths or Notary Public: (sign)	Roser	in Parke	3,44	
	This registration must b	This space for Regulatory Autho be revalidated after ten (10) year	rity use irs from the date	a acceptance.
CRN:0F08154	.2 ADD	be revalidated after ten (10) year	EL PRESSU	RE VESS
FID#:15328_		(8)	Dota Mariel	181
			DOW THEFT	3/17
Notes:		C.R.N	N. OFORIS	3/17 O 4.98 ADD

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.

NEW BRUNSWICK NUNAVUT NOVA SCOTIA YUKON PRINCE EDWARD ISLAND NORTHWEST TERRITORIES

NEWFOUNDLAND AND LABRADOR

Constitution of the Consti	
ANUFACTURERS NAME: ABB Inc.	
MANUFACTURERS ADDRESS: 3400 rue Pierre - Ardouin , Quebec, QC, G1P 082, Canada	
LANT LOCATIONS: 17100 Manchac Park lane, Sulte B, Baton Rouge, LA, 70817 USA	
CATEGORY OF FITTINGS TO BE REGISTERED. CIRCLE ONE CATEGORY ONLY	TITLE OF THE STANDARD OF CONSTRUCTION
A Pipe fittings, including couplings, tees, elbows, Ys, plugs, unions, pipe caps, or reducers B Flanges: all flanges C Valves: all line valves E 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	a proprietary standard
bollers, 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 C. (Meeting CNSC or ASME regulrements)	207.01
SHOW MANUFACTURERS NAME, TRADEMARK, OR LOGO AS IT WILL APPEAR ON THE PRODUCT	TYPE OF CONSTRUCTION
A B B KIEK	FORGED WELDED WROUGHT DESCRIBE OTHER:
LIST OF SUPPORTING DOCUMENTATION AND IDENTIFICATION OF THE ACTUAL	ITEMS TO BE REGISTERED:
ny knowledge represents the product for which registration is sought. The dimensions, materials of compensature ratings, and identification markings are in accordance with the herein named standards. If these fittings is regulated by a Quality Control Program which extends to each plant where fabrication in part and has been verified bySGS - ISO 9001:2008 as being suitable for the purpose declaration conscientiously believing it to be true, and knowing that it is of the same force and effect a significant of Declarer:	I further declare that the manufacture on occurs in whole a and I make this solemn
Declared before me at Quelo city	
This 25th day of January 10 2017	
Commissioner of Oaths or Notary Public: (sign)	Nowfork I and
This space for Regulatory Authority use This registration must be revalidated after ten (10) years from the date	of acceptance. Labrador
CRN:OFO8154.2_ADD	Service NL Registered 0 F 0 S 154.2
	Date 17/03/06
FID#:15328	UELU MARIE LA DIVID
Notes:	Engineering and Inspection Co.
All fittings shall be registered in the name of the Manufacturer. Each category shall be supported with two Statutory Declaration	
	Registored by Co.
forms and one copy of supporting documentation.	Registered by Continued the Authority of a Public Safety Act and
The declaration shall be made by the person having full authority and responsibility for the quality of the end product.	Registored by Columber THE AUTHOUT OF
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 as a maximum interval of five (5) years.	Registered by

NEW BRUNSWICK **NOVA SCOTIA** PRINCE EDWARD ISLAND NEWFOUNDLAND AND LABRADOR NUNAVUT YUKON NORTHWEST TERRITORIES MANUFACTURERS NAME: ABB Inc. MANUFACTURERS ADDRESS: 3400 rue Pierre - Ardouin , Quebec, QC, G1P 0B2, Canada PLANT LOCATIONS: 17100 Manchac Park lane, Suite B, Baton Rouge, LA, 70817 USA TITLE OF THE STANDARD OF CONSTRUCTION CATEGORY OF FITTINGS TO BE REGISTERED. CIRCLE ONE CATEGORY ONLY a proprietary standard 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) SHOW MANUFACTURERS NAME, TRADEMARK, OR LOGO AS IT WILL APPEAR ON THE PRODUCT TYPE OF CONSTRUCTION FORGED | WELDED | WROUGHT | CAST | OTHER | DESCRIBE OTHER: LIST OF SUPPORTING DOCUMENTATION AND IDENTIFICATION OF THE ACTUAL ITEMS TO BE REGISTERED: Scope of Registration - MT Series - MT 5000/5100/5200 Level Transmitters, renewal of CRN: 0F08154.2C DECLARATION: (see note 3) employed by _ and being the person having full authority and ABB Inc. Louise Martel _ 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 SGS - ISO 9001:2008 as being suitable for the purpose and I make this solemn or in part and has been verified by 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 / This DEPT OF PUBLIC SAFETY BOLLER & PRESSURE VESSEL ACT Commissioner of Oaths or Notary Public: (sign) REGISTRATION ON This space for Regulatory Authority use This registration must be revalidated after ten (10) years from the date of acceptance CRN: __OFO8154.2 ADD FID#: 15328 FR INGP 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. The declaration shall be made by the person having full authority and

FITTINGSect. 1 DCOMPONENTS06/2003

responsibility for the quality of the end product.

at a maximum Interval of five (5) years.

4. Quality control programs shall be resubmitted for validation

NEW BRUNSWICK NUNAVUT NOVA SCOTIA YUKON

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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.

PRINCE EDWARD ISLAND NORTHWEST TERRITORIES NEWFOUNDLAND AND LABRADOR

MANUFACTURERS NAME: ABB Inc.	
MANUFACTURERS ADDRESS: 3400 rue Pierre - Ardouin , Quebec, QC, G1P 0B2, Canada	
PLANT LOCATIONS: 17100 Manchac Park lane, Suite B, Baton Rouge, LA, 70817 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 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 bollers, pressure vessels, piping and fusible plugs H Pressure retaining components that do not fall into one of the above categories	TITLE OF THE STANDARD OF CONSTRUCTION a proprietary standard
N Nuclear components: Class 1 Class 2 Class 3 C, (Meeting CNSC or ASME requirements) SHOW MANUFACTURERS NAME, TRADEMARK, OR LOGO AS IT WILL APPEAR ON THE PRODUCT	TYPE OF CONSTRUCTION FORGED WELDED WROUGHT CAST OTHER DESCRIBE OTHER:
DECLARATION: ILouise Martel(see note 3) employed byABB Incand being the personal billity for the quality of the end product do solemnly declare that the information contained in the second seco	his form is true and to the best of
my knowledge represents the product for which registration is sought. The dimensions, materials of contemperature ratings, and identification markings are in accordance with the herein named standards. Of these fittings is regulated by a Quality Control Program which extends to each plant where fabrication or in part and has been verified bySGS - ISO 9001:2008 as being suitable for the purpose declaration conscientiously believing it to be true, and knowing that it is of the same force and effect a	onstruction, pressure I further declare that the manufacture on occurs in whole a and I make this solemn
Declared before me at Queles city	
Commissioner of Oaths or Notary Public: (sign) Commissioner of Oaths	
This space for Regulatory Authority use This registration must be revalidated after ten (10) years from the date	of acceptance.
CRN:OFO8154.2 ADD	
FID#:15328	NT OF PLAN
I Notes:	F08154.27 ADD

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NEW BRUNSWICK NOVA SCOTIA PRINCE EDWARD ISLAND NEWFOUNDLAND AND LABRADOR NUNAVUT YUKON NORTHWEST TERRITORIES MANUFACTURERS NAME: ABB Inc. MANUFACTURERS ADDRESS; 3400 rue Pierre - Ardouin , Quebec, QC, G1P 0B2, Canada PLANT LOCATIONS: 17100 Manchac Park lane, Sulte B, Baton Rouge, LA, 70817 USA TITLE OF THE STANDARD OF CONSTRUCTION CATEGORY OF FITTINGS TO BE REGISTERED. CIRCLE ONE CATEGORY ONLY a proprietary standard A Pipe fittings, including couplings, tees, clbows, 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 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 bollers, pressure vessels, piping and fusible plugs Pressure rotaining 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) SHOW MANUFACTURERS NAME, TRADEMARK, OR LOGO AS IT WILL APPEAR ON THE PRODUCT TYPE OF CONSTRUCTION FORGED WELDED WROUGHT CAST OTHER DESCRIBE OTHER: LIST OF SUPPORTING DOCUMENTATION AND IDENTIFICATION OF THE ACTUAL ITEMS TO BE REGISTERED! Scope of Registration - MT Series - MT 5000/5100/5200 Level Transmitters, renewal of CRN: 0F08154.2C DECLARATION: (see note 3) employed by _ _ABB Inc.____and being the person having full authority and Louise Martel 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 _____ SGS - ISO 9001:2008___ as being suitable for the purpose and I make this sole declaration conscientiously believing it to be true, and knowing that it is of the same force and effect as if made under oath. SGS - ISO 9001:2008___ as being sultable for the purpose and I make this solemn Signature of Declarer: Declared before me at (day of Commissioner of Oaths or Notary Public: (sign) This space for Regulatory Authority 100 This registration must be revalidated after ten (10) years from the date CRN: __OFO8154.2_ADD Northwest Territories FID#: 15328 REGISTERED UNDER THE AUTHORITY OF 1. All fittings shall be registered in the name of the Manufacturer. THE BOILER AND PRESSURE 2. Each category shall be supported with two Statutory Decigration

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forms and one copy of supporting documentation.

responsibility for the quality of the end product,

at a maximum interval of five (5) years.

1 1 11 11

3. The declaration shall be made by the person having full authority and

4. Quality control programs shall be resubmitted for validation

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NEW BRUNSWICK NOVA SCOTIA YUKON

PRINCE EDWARD ISLAND NORTHWEST TERRITORIES

NEWFOUNDLAND AND LABRADOR

MANUFACTURERS NAME: ABB Inc.	
MANUFACTURERS ADDRESS: 3400 rue Pierre - Ardouin , Quebec, QC, G1P 082, (Canada
PLANT LOCATIONS: 17100 Manchac Park lane, Suite B, Baton Rouge, LA, 7081;	
CATEGORY OF FITTINGS TO BE REGISTERED. CIRCLE ONE CATEGORY A Pipe fittings, including couplings, tees, elbows, Ys, plugs, unions, pipe caps, or reducers B Flanges: all flanges	ONLY TITLE OF THE STANDARD OF CONSTRUCTION a proprietary standard
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N Nuclear components: Class 1 Class 2 Class 3 C, (Meeting CNSC or ASME reguln	ements)
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AR KIEK	FORGED WELDED WROUGHT CAST OTHER DESCRIBE OTHER:
LIST OF SUPPORTING DOCUMENTATION AND IDENTIFICATION OF THE	ACTUAL ITEMS TO BE REGISTERED:
DECLARATION:	
Louise Martel (see note 3) employed by ABB Inc. and believes possibility for the quality of the end product do solemnly declare that the information commy knowledge represents the product for which registration is sought. The dimensions, mattemperature ratings, and identification markings are in accordance with the herein named stoof these fittings is regulated by a Quality Control Program which extends to each plant where or in part and has been verified by SGS - ISO 9001:2008 as being suitable for tideclaration conscientiously believing it to be true, and knowing that it is of the same force a	ntained in this form is true and to the best of terials of construction, pressure tandards. I further declare that the manufacture e fabrication occurs in whole the purpose and I make this solemn
Signature of Declarer: Naure Mart	
Declared before me at flueles city	
This 25 day of Janarary AD 2017	
Commissioner of Oaths or Notary Public: (sign)	NCI - OI
This space for Regulatory Muthority of This registration must be revalidated after ten [10] wars for Nunavul	n the date of proceptance
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FID#:	SF 08154, 2 NAda
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Quality control programs shall be resubmitted for validation at a maximum interval of five (5) years.	erritorial Registration Pero6/200
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