20 McAulay Court, Charlottetown, PE C1A 9M7 P.O. Box 53, Charlottetown, PE C1A 7K1. Phone: 902-566-1975, Fax: 902-566-3133

Recommendation to Register - Pressure Vessel Design

To: Nancy Chiasson

Date: 12/20/2022

From: ACI Central Inc.

Manufacturer: Watson McDaniel Company

428 Jones Blvd. Pottstown, PA 19464 Manufacturer #: PV-1188

Subject: ACI Central Design Review

The product described on this form has satisfied the requirements for review of pressure vessel designs established by the Directors of ACI Central at their September 1994 meeting in Moncton, New Brunswick. We recommend this design be registered in your Jurisdiction under:

CDN DOCOD F

		C.0690.5	
Unit Description	Drawing Number	Service	Design Code
Cast Vessel	2189100 rev I (2 sheets)	Non Lethal	ASME Sect VIII Div. 1
She	l Side	Tube	Side
MAWP @ TEMP	MDMT @ MAWP	MAWP @ TEMP	MDMT @ MAWP
200 PSI @ 650 F	-20 F @ 200 PSI	<u> </u>	

Test Pressure: Hydro: 400 PSI Pneu:	Test Pressure: Hydro:	Pneu:	
-------------------------------------	-----------------------	-------	--

Part	Material	Des. t"	Act. t"	CA"	% EF	RT	PWHT	Dimensions	Notes
Tank	SA 395	0.39mln	0.50	0.0625				OD": 16.5"	Drawings
Cover	SA 395	0.750	0.750	0.0625				OAL": 23"	2189100 rey I (2 shts)
				7.5			100	W": 17"	0197900 rev E
			700 - C.S. T					H";	
		4				e (Carennii)		HS FT ² :	

Notes:

- 1- The return of this form, bearing the signature and stamp of the Jurisdiction will legally establish the CRN shown on this form.

 2- A copy of the Design bearing the CRN will be sent to the
- Manufacturer.
- 3- Details including service conditions will be posted on the 'Silent Inspector' Bulletin Board.
- 4- Copies of the Design and Specifications are available to ACIC Members on demand.
- The form will be a permanent ACIC record.
- 6- To reduce turnaround times to a minimum fax your response to 902-566-3133.

ACIC Log#: 33388

Description: Cast Vessel, 16.5" OD ASME Stamp, National Board Registered This space is for Jurisdictional stamp and signature

ACCEPTED PROVINCE OF PRINCE EDWARD ISLAND COMMUNITIES, LAND & ENVIRONMENT

C.R.N. R 8690, 59

DATE: DECEMBER 22, 2022

nChiasson INSPECTION SERVICES SECTION

BOILER/PRESSURE VESSEL BRANCH

Sect. 2,0-BPV Rev. 1 06/2003

20 McAulay Court, Charlottetown, PE C1A 9M7
P.O. Box 53, Charlottetown, PE C1A 7K1. Phone: 902-566-1975, Fax: 902-566-3133

Recommendation to Register - Pressure Vessel Design

To: Donnie Ehler

Date: 12/20/2022

From: ACI Central Inc.

Manufacturer: Watson McDaniel Company

Manufacturer #: PV-1188

428 Jones Blvd. Pottstown, PA 19464

Subject: ACI Central Design Review

The product described on this form has satisfied the requirements for review of pressure vessel designs established by the Directors of ACI Central at their September 1994 meeting in Moncton, New Brunswick. We recommend this design be registered in your Jurisdiction under;

CRN: R8690.5

Unit Description	Drawing Number	Service	Design Code
Cast Vessel	2189100 rev I (2 sheets)	Non Lethal	ASME Sect VIII Div. 1
Shell S	ide	Tub	o Sido

| Tube Side | Tube Side | | MAWP @ TEMP | MDMT @ MAWP @ TEMP | MDMT @ MAWP | MDMT @ MDMT @ MAWP | MDMT @ MD

Test Pressure: Hydro: 400 PSI Pneu: Test Pressure: Hydro: Pneu:

Part	Material	Des. t"	Act. t"	CA"	% EF	RT	PWHT	Dimensions	Notes
Tank	SA 395	0.39mln	0.50	0.0625				OD": 16.5"	Drawings
Cover	SA 395	0.750	0.750	0.0625				OAL": 23"	2189100 rev I (2 shts)
								W": 17"	0197900 rev E
								H":	1
		, Land						HS FT2:	

Notes:

- The return of this form, bearing the signature and stamp of the Jurisdiction will legally establish the CRN shown on this form.
- 2- A copy of the Design bearing the CRN will be sent to the Manufacturer.
- Details including service conditions will be posted on the 'Silent Inspector' Bulletin Board.
- 4- Copies of the Design and Specifications are available to ACIC Members on demand.
- 5- The form will be a permanent ACIC record.
- 6- To reduce tumaround times to a minimum fax your response to 902-566-3133.

ACIC Log#: 33388

Description: Cast Vessel, 16.5" OD

ASME Stamp, National Board Registered

This space is for Jurisdictional stamp and signature

Date Dec. 22/82

C.R.N. B8690:58

Dwg. 2189100 Rev. 1(2sheets)

Signed Ferry

Part Part REGULATIONS

Sect. 2.0-BPV Rev. 1 06/2003

20 McAulay Court, Charlottetown, PE C1A 9M7 P.O. Box 53, Charlottetown, PE C1A 7K1. Phone: 902-566-1975, Fax: 902-566-3133

Recommendation to Register - Pressure Vessel Design

To: Eben Creaser

Date: 12/20/2022

From: ACI Central Inc.

Manufacturer: Watson McDaniel Company

Manufacturer #: PV-1188

428 Jones Blvd.

Pottstown, PA 19464

Subject: ACI Central Design Review

The product described on this form has satisfied the requirements for review of pressure vessel designs established by the Directors of ACI Central at their September 1994 meeting in Moncton, New Brunswick. We recommend this design be registered in your Jurisdiction under:

CRN: R8690.5

Unit Description	Drawing Number	Service	Design Code
Cast Vessel	2189100 rev I (2 sheets)	Non Lethal	ASME Sect VIII Div. 1
01 11 0	· D'a		Line Company of the C

Shell Side Tube Side MAWP @ TEMP MDMT @ MAWP MAWP @ TEMP MDMT @ MAWP 200 PSI @ 650 F - 20 F @ 200 PSI

Test Pressure: Hydro: 400 PSI Test Pressure: Hydro: Pneu: Pneu:

Part	Material	Des. t"	Act. t"	CA"	% EF	RT	PWHT	Dimensions	Notes
Tank	SA 395	0.39min	0.50	0.0625				OD": 16.5"	Drawings
Cover	SA 395	0.750	0.750	0.0625				OAL": 23"	2189100 rev I (2 shts)
								W": 17"	0197900 rev E
								H":	1
								HS FT2:	1

Notes:

- 1- The return of this form, bearing the signature and stamp of the Jurisdiction will legally establish the CRN shown on this form.
- 2-A copy of the Design bearing the CRN will be sent to the Manufacturer.
- 3-Details including service conditions will be posted on the 'Silent Inspector' Bulletin Board.
- Copies of the Design and Specifications are available to ACIC Members on demand.
- The form will be a permanent ACIC record.
- To reduce turnaround times to a minimum fax your response to 902-566-3133.

ACIC Log#: 33388

Description: Cast Vessel, 16.5" OD

ASME Stamp, National Board Registered

This space is for Jurisdictional stamp and signature DEPT OF JUSTICE PUBLIC SAFETY BOILER & PRESSURE VESSEL ACT 8690,57 BLRs NUCLEAR COMPONENTS. 06/2003

FITTINGS

20 McAulay Court, Charlottetown, PE C1A 9M7
P.O. Box 53, Charlottetown, PE C1A 7K1. Phone: 902-566-1975, Fax: 902-566-3133

Recommendation to Register - Pressure Vessel Design

To: Engineering&Inspection Service

Date: 12/20/2022

From: ACI Central Inc.

Manufacturer: Watson McDaniel Company

Manufacturer #: PV-1188

428 Jones Blvd. Pottstown, PA 19464

Subject: ACI Central Design Review

The product described on this form has satisfied the requirements for review of pressure vessel designs established by the Directors of ACI Central at their September 1994 meeting in Moncton, New Brunswick. We recommend this design be registered in your

CRN: R8690 5

Unit Description			440400000000000000000000000000000000000		
	Drawing Number	Service	Design Code		
/essel	2189100 rev l (2 sheets)	Non Lethal	ASME Sect VIII Div. 1		
Shell		Tube Side			
IAWP @ TEMP	MDMT @ MAWP	MAWP @ TEMP	MDMT @ MAWP		
SI @ 650 F	-20 F @ 200 PSI		INDIVIT @ INAVAP		
	-201 @ 200 PSI				

Test Pressure: Hydro: 400 PSI Pneu: Test Pressure: Hydro: Pneu:

Part	Material	Des. t"	Act. t"	CA"	% EF	RT	PWHT	Dimensions	T N.
Tank	SA 395	0.39min	0.50	0.0625	70 121	171	1 44111		
Cover	SA 395	0.750	0.750	0.0625				OD": 16.5" OAL": 23"	Drawings 2189100 rev I (2 shts)
								W": 17"	0197900 rev E
		-						H";	
								HS FT2:	1

Notes:

- The return of this form, bearing the signature and stamp of the Jurisdiction will legally establish the CRN shown on this form.
- A copy of the Design bearing the CRN will be sent to the Manufacturer.
- Details including service conditions will be posted on the 'Silent Inspector' Bulletin Board.
- 4- Copies of the Design and Specifications are available to ACIC Members on demand.
- 5- The form will be a permanent ACIC record.
- 6- To reduce turnaround times to a minimum fax your response to 902-566-3133.

ACIC Log#: 33388

Description: Cast Vessel, 16.5" OD

ASME Stamp, National Board Registered

This space is for Jurisdictional stamp and signature

Newfoundland Labrador

Date Jan (8,200)

Engineering and inspection services
Registered by

UNDER THE AUTHORITY OF THE PUBLIC SAFETY ACT AND THE BOILER PRESSURE VESSEL AND COMPRESSED GAS REGULATIONS

Sect, 2.0-8PV Rev. 1 05/2003

20 McAulay Court, Charlottetown, PE C1A 9M7
P.O. Box 53, Charlottetown, PE C1A 7K1. Phone: 902-566-1975, Fax: 902-566-3133

Recommendation to Register - Pressure Vessel Design

To: Blair Rawlings

Date: 12/20/2022

From: ACI Central Inc.

Manufacturer: Watson McDaniel Company

Manufacturer #: PV-1188

428 Jones Blvd. Pottstown, PA 19464

Subject: ACI Central Design Review

The product described on this form has satisfied the requirements for review of pressure vessel designs established by the Directors of ACI Central at their September 1994 meeting in Moncton, New Brunswick. We recommend this design be registered in your Jurisdiction under:

CRN: R8690.5

Unit Description	Drawing Number	Service	Design Code
Cast Vessel	2189100 rev I (2 sheets)	Non Lethal	ASME Sect VIII Div. 1
Shell S	ide	Tub	e Side

 Shell Side
 Tube Side

 MAWP @ TEMP
 MDMT @ MAWP
 MAWP @ TEMP
 MDMT @ MAWP

 200 PSI @ 650 F
 -20 F @ 200 PSI
 MAWP @ TEMP
 MDMT @ MAWP

Test Pressure: Hydro: 400 PSI Pneu: Test Pressure: Hydro: Pneu:

Part	Material	Des. t"	Act. t"	CA"	% EF	RT	PWHT	Dimensions	Notes
Tank	SA 395	0.39min	0.50	0.0625				OD": 16.5"	Drawings
Cover	SA 395	0.750	0.750	0.0625				OAL": 23"	2189100 rev I (2 shts)
								W": 17"	0197900 rev E
								H":	
								HS FT2:	

Notes:

- 1- The return of this form, bearing the signature and stamp of the Jurisdiction will legally establish the CRN shown on this form.
- 2- A copy of the Design bearing the CRN will be sent to the Manufacturer.
- 3- Details including service conditions will be posted on the 'Silent Inspector' Bulletin Board.
- 4- Copies of the Design and Specifications are available to ACIC Members on demand.
- 5- The form will be a permanent ACIC record.
- 6- To reduce turnaround times to a minimum fax your response to 902-566-3133.

ACIC Log#: 33388

Description: Cast Vessel, 16.5" OD

ASME Stamp, National Board Registered

CRN R8690.5Y

DATE 12/22/2022

This space is for Jurisdictional stamp and signature

Sect. 2.0-BPV Rev. 1 06/2003

20 McAulay Court, Charlottetown, PE C1A 9M7
P.O. Box 53, Charlottetown, PE C1A 7K1. Phone: 902-566-1975, Fax: 902-566-3133

Recommendation to Register - Pressure Vessel Design

To: Matthias Mailman

Date: 12/20/2022

From: ACI Central Inc.

Manufacturer: Watson McDaniel Company

Manufacturer #: PV-1188

428 Jones Blvd. Pottstown, PA 19464

Subject: ACI Central Design Review

The product described on this form has satisfied the requirements for review of pressure vessel designs established by the Directors of ACI Central at their September 1994 meeting in Moncton, New Brunswick. We recommend this design be registered in your Jurisdiction under:

CRN: R8690.5

The state of the s		11000010					
Unit Description	Drawing Number	Service	Design Code				
Cast Vessel	2189100 rev I (2 sheets)	Non Lethal	ASME Sect VIII Dlv. 1				
Shel	I Side	Tube Side					
MAWP @ TEMP	MDMT @ MAWP	MAWP @ TEMP	MDMT @ MAWP				
200 PSI @ 650 F	-20 F @ 200 PSI						

Test Pressure: Hydro: 400 PSI Pneu:	Test Pressure: Hydro:	Pneu:
The second secon		

Part	Material	Des. t"	Act. t"	CA"	% EF	RT	PWHT	Dimensions	Notes
Tank	SA 395	0.39mln	0.50	0.0625				OD": 16.5"	Drawings
Cover	SA 395	0.750	0.750	0.0625				OAL": 23"	2189100 rev I (2 shis)
								W": 17"	0197900 rev E
								H":	1
								HS FT ² :	

Notes:

- 1- The return of this form, bearing the signature and stamp of the Jurisdiction will fegally establish the CRN shown on this form.
- A copy of the Design bearing the CRN will be sent to the Manufacturer.
- 3- Details including service conditions will be posted on the 'Silent inspector' Bulletin Board.
- 4- Copies of the Design and Specifications are available to ACIC Members on demand.
- 5- The form will be a permanent ACIC record.
- 6- To reduce turneround times to a minimum fax your response to 902-566-3133.

ACIC Log#: 33388

Description: Cast Vessel, 16.5" OD

ASME Stamp, National Board Registered

Northwest
Territories
REGISTERED
UNDER THE AUTHORITY OF
THE BOILER AND PRESSURE
VESSEL ACT.
C.R.N. 18670.51
SIGNED
DATE THE 3 2023

Sect. 2.0-BPV Rev. 1 05/2003

20 McAulay Court, Charlottetown, PE C1A 9M7
P.O. Box 53, Charlottetown, PE C1A 7K1. Phone: 902-566-1975, Fax: 902-566-3133

Recommendation to Register - Pressure Vessel Design

To: Muhammad Wani

Date: 12/20/2022

From: ACI Central Inc.

Manufacturer: Watson McDaniel Company

Manufacturer #: PV-1188

428 Jones Blvd.

Pottstown, PA 19464

Subject: ACI Central Design Review

The product described on this form has satisfied the requirements for review of pressure vessel designs established by the Directors of ACI Central at their September 1994 meeting in Moncton, New Brunswick. We recommend this design be registered in your Jurisdiction under;

CRN: R8690 5

		4.170000.0	
Unit Description	Drawing Number	Service	Design Code
Cast Vessel	2189100 rev I (2 sheets)	Non Lethal	ASME Sect VIII Div. 1
Shel	Il Side	Tub	e Side
MAWP @ TEMP	MDMT @ MAWP	MAWP @ TEMP	MDMT @ MAWP
200 PSI @ 650 F	-20 F @ 200 PSI		

Test Pressure: Hydro: 400 PSI Pneu: Test Pressure: Hydro: Pneu:

Part	Material	Des. t"	Act. t"	CA"	% EF	RT	PWHT	Dimensions	Notes
Tank	SA 395	0.39min	0.50	0.0625				OD": 16.5"	Drawings
Cover	SA 395	0.750	0.750	0.0625				OAL": 23"	2189100 rev I (2 shts)
								W": 17"	0197900 rev E
								H":	1
								HS FT2:	1

Notes:

- 1- The return of this form, bearing the signature and stamp of the Jurisdiction will legally establish the CRN shown on this form.
- A copy of the Design bearing the CRN will be sent to the Manufacturer.
- 3- Details including service conditions will be posted on the 'Silent inspector' Bulletin Board.
- 4- Copies of the Design and Specifications are available to ACIC Members on demand.
- 5- The form will be a permanent ACIC record.
- 6- To reduce tumaround times to a minimum fax your response to 902-566-3133.

ACIC Log#: 33388

Description: Cast Vessel, 16.5" OD

ASME Stamp, National Board Registered

Boilers and
Pressure Vessels Act

REGISTERED

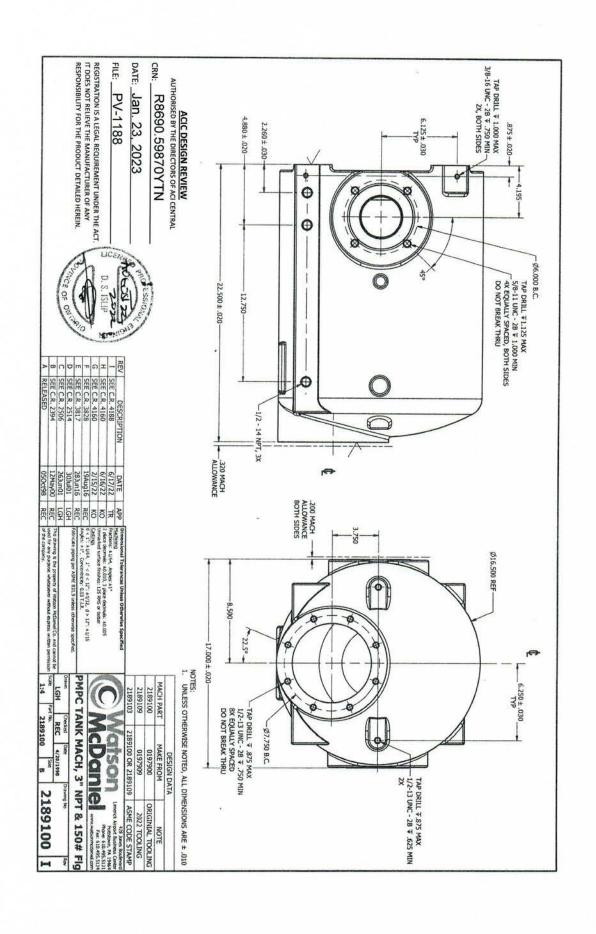
CRN PROPOSIN

Date 2023 - DI - D5

Signed Chief Inspector

Territorial Registration Fee

Sect. 2.0-BPV Rev. 1 05/2003



		DESI	DESIGN DATA			CONNECTION DATA	DATA
VESSEL CODE	VESSEL CODE ASME SECTION VIII-1, 2021	INTERNAL DESIGN	200 PSIG @ 650 F	WPS	MBT	INLET (N1)	3" NPT
PIPE CODE	N/A	EXTERNAL DESIGN	0 PSIG AT 650 F	PWHT	NONE	OUTLET (N2)	3" NPT
CODE STAMP	ASME U, ORN VESSEL	MDMT	-20 F	WEIGHT DRY	350 LBS. EST	Ž	3" CL150 FLANGED
CRN NUMBER	TBA	HYDROTEST PRESS.	YDROTEST PRESS. 400 PSIG FOR 10 MIN.			OUTLET (NZ) OPTIONAL 3" CL150 FLANGED	3" CL150 FLANGED
WIND CODE	N/A	CORROSION ALLOW.	0.0625		F1^3)	S	N/A
SEISMIC CODE	N/A	RADIOGRAPHY	NONE	INTERNAL FINISH	CLEAN & DEGREASE	NA.	NA
IMPACT TEST	NONE	MT/PT	NONE	EXTERNAL FINISH	CLEAN & DEGREASE	NS	N/A

DESIGN NOTES:

- 1. ALL NOZZLE BOLT HOLES STRADDLE THE MAJOR CENTER LINES UNLESS SPECIFICALLY NOTED.
 2. THE INLET/OUTLET NPS 3" FLANGES PROCESS CONNECTIONS ARE DESIGNED TO ACCEPT FLANGES IN ACCORDANCE WITH ASME B16.42 AND ASME B16.5
 3. ITEM TO BE CLEANED OF SCALE, OIL, WELD SPLATTER AND ALL FOREIGN MATTER PRIOR TO HYDROSTATIC
- TEST.

- 4. INSIDE NOZZLE CORNERS TO HAVE A MINIMUM 1/8" RADIUS.
 5. IMPACT TEST EXEMPT IN ACCORDANCE WITH ASME SECTION VIII-1 UCD-3(a).
 6. FABRICATIOR SHALL BE AUTHORIZED FOR SHOP FABRICATION OF PRESSURE VESSELS PER ASME SECTION VIII, DIV. 1 AND POSSESS ASME U-STAMP AND UM-STAMP CERTIFICATION.
 7. THE USER IS CAUTIONED THAT WHEN USING THE INLET/OUTLET NPS 3" FLANGED PROCESS CONNECTIONS LOCATED ON THE VESSEL THE PRESSURE-TEMPERATURE RATINGS OF THE USER SUPPLIED FLANGE TO MAKE THIS PROCESS CONNECTION (i.e. ASME B16.42 OR ASME B16.5 FLANGES) MAY LIMIT THE MAXIMUM ALLOWABLE WORKING PRESSURE OF THE VESSEL DEPENDING ON THE VESSEL OPERATING. PLEASE CONSULT ASME B16.42 AND ASME B16.5 FLANGE PRESSURE-TEMPERATURE RATINGS. 8. SEE DRAWING 2251100 AND 1562401 FOR COVER ASSEMBLY.

IT DOES NOT RELIEVE THE MANUFACTURER OF ANY RESPONSIBILITY FOR THE PRODUCT DETAILED HEREIN. REGISTRATION IS A LEGAL REQUIREMENT UNDER THE ACT. DATE: CRN:

Jan. 23, 2023 PV-1188

AUTHORISED BY THE DIRECTORS OF ACI CENTRAL

R8690.59870YTN ACIC DESIGN REVIEW

Sections Sections: 1/64, Angles: 11* Gazons: 1/164, Angles: 11* Gazons: 1/164, Angles: 11* Gazons: 1/164, Angles: 11* Gazons: 1/164, Gazons: 10.005 Gazons:

H	2189100	B	Part No.	Scale 1:4	purpose whatsoever without express written permission my.
ş	Drawing No.	Date 4/29/1998	REC	HBT	is the property of Watson McDaniel Co. and cannot be
		-			ng per ASME 831.9 unless otherwise specified.
=	PMPC TANK MACH, 3" NPT & 150# Flo	ACH. 3	TANK	PMPC	Concentricity: 0.03 T.LR.
el.com	www.watsonncdanie	2	1	1	A 1" < d < 12" ±1/32 d > 12" ±1/16
\$5001	<u>5</u> *	7	3	6	nals: ±0.010, 3 place decimals: ±0.005 inface finishes: 125 RMS or better
Center	428 Jones Box Limerck Airport Business	TSO	No	3	if Tolerances Unless Otherwise Specified 164. Anales: ±1°