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August 4, 2025

ROUND ENGINEERING INC  
10 SEGWUN RD  
WATERDOWN ON L8B 0K6

**Workorder Type:** Registration - Fitting(Conventional)  
**Workorder No:** 14671543  
**Your Reference No.:** R-1993  
**Registered to:** CHART INC

Dear SCOTT ISLIP,

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

CRN : 0H26028.5  
Main Design No.: Appendix A , TEAK-CRN 3- WAY VALVE PID  
Expiry Date: Aug 04, 2035

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 (There will be no hard copies for electronic submissions). 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](mailto: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,

Mehdi Talebi  
Engineer, BPV  
Tel. : +1 416-734-3413  
Email : [mtalebi@tssa.org](mailto:mtalebi@tssa.org)



Technical Standards and Safety Authority  
345 Carlingview Drive  
Toronto, Ontario M9W 6N9  
www.tssa.org



Earthly  
Labs

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



## STATUTORY DECLARATION Registration of Fittings

I, Israel Cruz, Quality Manager

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

of Chart Inc.

(Name of Manufacturer)

Located at See Attached Worldwide Locations Appendix

(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 ASME 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 ISO 9001:2015 which has been verified by the following authority, Bureau Veritas

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

SCOPE OF CRN REGISTRATION, REPORTS, DRAWINGS, CALCULATIONS

(drawings, calculations, test reports, etc.)

Declared before me at Tulsa County in the state of Oklahoma

the 16 day of May AD 2025.

ANA VEL MARTINEZ  
NOTARY PUBLIC - STATE OF OKLAHOMA  
MY COMMISSION EXPIRES MAR. 08, 2027  
COMMISSION # 23003888

Commissioner for Oaths:

Ana Vel Martinez

(Printed name)

Ana Vel Martinez

(Signature)

I. Cruz

(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 H.

CRN: 0H26028.5

Registered by: \_\_\_\_\_

Dated: \_\_\_\_\_



This Document has been digitally signed and approved. The stamp size has been optimized for 11 x 17 documents.

NOTE: This registration expires on: Aug 4, 2035

Technical  
Standards  
and Safety  
Authority

Boilers and  
Pressure Vessels  
Safety Program

**REGISTERED**

C.R.N.: 0H26028.5

Signed: MT

Date: August 4, 2025.

\*Information provided in this application is releasable under the Freedom of Information and Privacy Protection Act and may be disclosed upon request.





BUREAU  
VERITAS

Bureau Veritas Certification



## Chart Inc.

1300 Airport Dr. Ball Ground, GA 30107 USA

This is a multi-site certificate, additional site(s) are listed on the next page(s)

*Bureau Veritas Certification Holding SAS - UK Branch certifies that the Management System of the above organisation has been audited and found to be in accordance with the requirements of the management system standards detailed below*

## ISO 9001:2015

Scope of certification

Design, manufacturing and service of cryogenic equipment, pressure vessels, water treatment systems, other vacuum systems and components.

Original cycle start date:	29-September-2015
Expiry date of previous cycle:	29-September-2024
Certification / Recertification Audit date:	26-May-2024
Certification / Recertification cycle start date:	30-September-2024
Subject to the continued satisfactory operation of the organisation's Management System, this certificate expires on:	29-September-2027

Certificate No.: US020045

Version: 1

Issue date: 18-July-2024

*Brian Sanders*



0008

**Signed on behalf of BVCH SAS UK Branch**

Certification Body Address: 5th Floor, 66 Prescott Street, London, E1 8HG, United Kingdom

Local Office: 16800 Greenspoint Park Drive Suite 300S Houston, TX 77060, USA

Further clarifications regarding the scope and validity of this certificate can be found by selecting or scanning the QR Code shown on the left.





BUREAU  
VERITAS

Bureau Veritas Certification

Chart Inc.

ISO 9001:2015

Scope of certification

Site Name	Site Address	Site Scope
Chart Inc. - HQ	1300 Airport Dr. Ball Ground, GA 30107 USA	Design, manufacturing, and service of cryogenic equipment, pressure vessels, and other vacuum systems and components.
Chart Inc. - Brentwood	48 Pine Road Brentwood, NH 03833 USA	Service of cryogenic equipment.
Chart Inc. - Houston	55 Southbelt Industrial Drive Houston, TX 77047 USA	
Chart Inc. - McCarran	1995 Peru Drive McCarran, NV 89434 USA	
Chart Inc. - Richburg	521 Business Park Dr. Richburg, SC 29729 USA	
Chart Inc. - Duluth	2055 Boggs Rd. Duluth, GA 30096 USA	Design, manufacture and service of water treatment systems.
Chart Inc. - Fayetteville	4375 Vantage Drive, Suite 202 Fayetteville, AR 72703 USA	
Chart Inc. - New Prague	407 7th Street NW New Prague, MN 56071 USA	Design, manufacturing, and service of pressure vessels, systems, and components.
Chart Inc. - New Prague	1100 1st Avenue NW, Suite B New Prague, MN 56071 USA	
Chart Inc. - Theodore	4075 Hamiton Blvd. Theodore, AL 36582 USA	
Chart Inc. - Theodore	7600 Mitsubishi Lane Theodore, AL 36582 USA	

Certificate No.: US020045

Version: 1

Issue date: 18-July-2024

*Brian Sanders*



**Signed on behalf of BVCH SAS UK Branch**

Certification Body Address: 5th Floor, 66 Prescott Street, London, E1 8HG, United Kingdom

Local Office: 16800 Greenspoint Park Drive Suite 3005 Houston, TX 77060, USA

Further clarifications regarding the scope and validity of this certificate can be found by selecting or scanning the QR Code shown on the left.

UKAS Certificate Template Multi Site Rev.4.1







BUREAU  
VERITAS

Bureau Veritas Certification



Chart Inc.

ISO 9001:2015

Scope of certification

Site Name	Site Address	Site Scope
Chart Inc. - Tulsa	5615 S 129th E Ave Tulsa, OK 74134 USA	Manufacturing and service of pressure vessels, systems, and components.

Certificate No.: US020045

Version: 1

Issue date: 18-July-2024

Brian Sanders



Signed on behalf of BVCH SAS UK Branch

Certification Body Address: 5th Floor, 66 Prescott Street, London, E1 8HG, United Kingdom

Local Office: 16800 Greenspoint Park Drive Suite 3005 Houston, TX 77060, USA

Further clarifications regarding the scope and validity of this certificate can be found by selecting or scanning the QR Code shown on the left.

**CHART INC.**

5615 S. 129TH E. AVE.  
TULSA, OK  
74134



21-May-25

PAGE 1 OF 1

### SCOPE OF CRN REGISTRATION

Product Description	Drawing Numbers	Design Code	Size Range	Connections	Material Specification	MAWP at MAWT (psig)	MDMT (F)	CA (in.)	Report Number
Carbon Capture System	Earthly Labs CICI (TEAK) 3-WAY PID V1.0 - CRN.VSDX CRN C-1000, CRN Line 1010, CRN H-1010, CRN Line 1011, CRN Line 1012, CRN Line 1013, CRN Line 1014, CRN Line 1015, CRN Line 1016, CRN Line 1017, CRN Line 1018, CRN Line 1020, CRN Line 1021, CRN Line 1022, CRN V-1020 & V-1021, CRN Line 1023, CRN Line 1024, CRN Line 1030, CRN V-1030, CRN Line 1031, CRN H-1040, CRN Line 1040, CarboMax 1000 CO2 Dewar-V-1040, CRN Line 1041, CRN Line 1042, CRN Line 1050	ASME B31.3, 2024	1/4" OD x 0.035", 3/8" OD x 0.035", 2" Sch. 40S, 1/2" Class 3000, 2" Class 3000	Tube End, NPT, ASME B16.5 Flanged	ASTM A213 TP316, ASTM A269 TP316, ASTM A270 TP316, ASTM A312 TP304, ASTM A182 F316, ASTM A182 F304	<u>CO2:</u> 175 psig at 150°F	30°F and -40°F <b>(Note 2)</b>	Nil	R-1993 Rev. 0

**Note 1:** MAWP = Maximum Allowable Working Pressure, MAWT = Maximum Allowable Working Temperature, MDMT = Minimum Design Metal Temperature.

**Note 2:** All CSA B51 regulated lines in the Carbon Capture System have a MDMT equal to 30°F except for line 1040 between the Chiller and Dewar which has a MDMT equal to -40°F.

**Note 3:** Per CSA Table 1 Note (2)(B) the total volume of any configured assembly shall not exceed 1.5 cubic feet in volume.

**Note 4:** Flanges to comply with ASME B16.5 and ASME B16.11 fittings shall be Class 3000.

**Note 5:** See Attached List of Chart Inc. Manufacturing locations applicable to this CRN.

**THIS IS PART OF CRN**  
**0H26028.5**  
 Technical Standards and Safety Authority  
 Boilers and Pressure Vessels Safety  
 Program