New Brunswick

Nova Scotia

New Brunswick Nunavut	Nova Scotia Yukon	Prince Edward Islan Northwest Territorie		brador
Manufacturers Nar	ne. Acma Cryogenics Inc			<u> </u>
Manufacturers Ado	ress: 2801 Mitchell Avenue, Aller	town, PA 18103		
Plant Locations: san				
B Flances: all flances	g couplings, tees, elbows, Ys,	red. Circle one Category plugs, unions, pipe caps, or re	only Title of the state of the	Standard of uction
F Measuring devices, in transmitters G Certified capacity-rate boilers, pressure vess (H) Pressure retaining of	cible connections, and hose as arafors, and steam traps and traps are gauges, lev- and pressure relief devices accesses, piping and fusible plugs amponents that do not fall into	el gauges, sight glasses, levels aptable as primary over pressu one of the above categories	re protection on	GA V-6
N Nuclear components:	Class 1 Class 2 Class	s 3 🗆 , (Meeting CNSC or AS	ME requirements)	
Show Manufacturers	Name, Trademark, or Lo	ogo as it will appear on th	e product Type of Co	
	ACM	ECS	Forged o Welded Cast A Other o Describe other:	
List of supporting de	ocumentation and identif	ication of the actual items	to be registered:	
Scope: CRN renewand Argon), Standa Note: If the registers	al. CGA standard cryoc rd Carbon Dioxide Trai	d to a hose assembly t	on, Calculations  des Liquid Transfer Conn. (Nitrogliquid Natural Gas LNG Fittings.)  he hose assembly must be qualifited in the control of t	ad by
and responsibility for the my knowledge represent ratings, and identification it ings is regulated by a verified by a verified by a verified by a	a quality of the end products the product for which ren markings are in accordance of the product for which ren markings are in accordance of the product for which ren is a product for the product for which ren is a product for which ren	gistration is sought. The dince with the herein named sought concerning the herein named sought control of the hereing suitable for that purpossame force and effect as if the hereing suitable for that purpossame force and effect as if the hereing suitable for that purpossame force and effect as if the hereing sought for the hereing suitable for the hereing sought f	ne information contained in this form is mensions, materials of construction, prestandards. I further declare that the matches and I make this solemn declaration of made under oath.  Use this space for the Official Series of the RPETRASOVITS - Notary Public Levish County	true to the best of essure temperature inufacture of these part and has been conscientiously
		his space for Regulatory Author	My Commission Expires Jul 23, 2022 Commission Number 1191577	
CRN: 0H6700,5 F	This englishment as with the	e revalidated after ten (10) yea	rs from the date of acceptance.  ACCEPTED	
FID#: 1556		PROVINCE O	IF PRINCE EDWARD ISLAND	
Notes:		COMMUNIT	IES. LAND & ENVIRONMENT	
<ol><li>Each Category shall be and one copy of support</li></ol>		turer. aration forms C.R.N.	may 19/23	203
responsibility for the qua		utnority and	TWY-H	
<ol> <li>Quality Control program</li> <li>11/2016</li> </ol>	s shall be resubmitted for validation	n. INSPEC	TON SERVICES SECTION Sect 1.0 -	Fittings Rev.2
CRN expires April 6	th. 2033	EDTER/	ALGOUAL VLOUDE -	
stylloo ripin e	, 2000			

New Brunswick Nunavut	Nova Scotia Yukon	Prince Edward Is Northwest Territo			
Manufacturers Nar	TIO: Acme Cryogenics, Inc.	· · · · · · · · · · · · · · · · · · ·			
Manufacturers Add	iress; 2801 Milcholl Avenue, A	lentown, PA 18103		<del></del>	
Plant Locations: ser					
A Pipe fittings, including B Flanges: all flanges	y of Fittings to be regis ag couplings, tees, elbows, \	tered. Circle one Catego 's, plugs, unions, pipe caps, o	ory only or reducers	Title of the St Constru	
E Strainers, filters, sen	xible connections, and hose			ASME B31.3, C0	3A V-6
F Measuring devices, i transmitters	including pressure gauges, I	evel gauges, sight glasses, le cceptable as primary over pre			
pollers, pressure ves	isels, piping and fusible plug	s sito one of the above categorie			
N Nuclear components	s: Class 1 Class 2 C	class 3 🗆 , (Meeting CNSC or	ASME requirement	s)	
Show Manufacturer	rs Name, Trademark, or	Logo as it will appear or	the product	Type of Con	
	ACN	E S GENICS		Forged D Welded Cast 5 Other D Describe other:	6 Wrought o
List of supporting o	locumentation and ider	tification of the actual it	ems to be registe	ored:	
		cope of CRN Regist			
Note: If the register	ard Carbon Dioxide T red fittings are conne	ransfer Connections ar cted to a hose assemb	nd Liquid Natura lv. the hose ass	ransfer Conn. (Nitroge al Gas LNG Fittings. embly must be qualifie -D-08051 Sheet 1 TO	ed by
and responsibility for the my knowledge representings, and identification fittings is regulated by verified by TUV Resident	the quality of the end proceed that the product for which ion markings are in accordance a Quality Control Program and knowing that it is of the process of Tuly A	registration is sought. The dance with the herein name of the with the herein name of the with the herein name of the same force and effect and	nat the information e dimensions, maned standards. I full all the standards if the standards if the standards if made under or the standards if	and being the person havi contained in this form is to terials of construction, pre urther declare that the man tition occurs in whole or in this solemn declaration occurs ath.  space for the Official S omwealth of Pennsylvania - Notary Seal EEN R PETRASOVITS - Notary Public Le-lige County of Commission Expires Jul 21, 2022 Commission Riverber 1191577	rue to the best of ssure temperature nufacture of these part and has been onscientiously
	This registration mu	This space for Regulatory at be revalidated after len (10	Authority use.	erofrancontoneo	
CRN: 0H6700.5	Rev3	or so revaluated and tell (10	Q & PR	SSURED	
FID#: 1556	en <del>ales</del>		NOVA	SCOTIA ()	
110#			Date Me	24 19/23 V	
Notes:  1. All Fittings shall be re	gistered in the name of the Man	ulacturer	CRN OU	6700,58REV3	
2. Each Category shall I	be supported with two Statutory orling documentation.		The state of the s	described	
	be made by the person having quality of the end product.	full authority and	Signed	20	
	ams shell be resubmitted for valid	detion.	B 1	of L Aset 10-	Fittings Rev.2
11/2016			// I	Part Sant	ange i totte
CRN expires April	6th, 2033		Q R	TOULD	

New Brunswick Nunavut

Nova Scotia Yukon Prince Edward Island Northwest Territories Newfoundland and Labrador

Manufacturers Name: Acme Cryogenics, Inc.	
Manufacturers Address; 2801 Mitchell Avenue, Allentown, PA 18103	
Plant Locations: same as above	
Category of Fittings to be registered. Circle one Cated  A Pipe fittings, including couplings, tees, elbows, Ys, plugs, unions, pipe caps  B Flanges: all flanges	gory only Title of the Standard of Construction
C Valves: all line valves D Expansion joints, flexible connections, and hose assemblies: all types E Strainers, filters, separators, and steam traps	ASME B31.3, CGA V-6
Measuring devices, including pressure gauges, level gauges, sight glasses, transmitters     G Certified capacity-rated pressure relief devices acceptable as primary over p	52 C. 2 - 52 C. 154 C.
boilers, pressure vessels, piping and fusible plugs  HPressure retaining components that do not fall into one of the above category	
N Nuclear components: Class 1 ☐ Class 2 ☐ Class 3 ☐ , (Meeting CNSC	or ASME requirements)
Show Manufacturers Name, Trademark, or Logo as it will appear	
ACME CRYOGENICS	Forged Welded Wrought Describe other:
List of supporting documentation and identification of the actual	items to be registered:
Drawing CRN-D-08051, Rev. B, Scope of CRN Regis	stration, Calculations
Scope: CRN renewal. CGA standard cryogenic connections. and Argon), Standard Carbon Dioxide Transfer Connections Note: If the registered fittings are connected to a hose assemproof testing and registered under a different CRN. Scope of (DGallant)	and Liquid Natural Gas LNG Fittings. bly, the hose assembly must be qualified by
David M. Rakos, Director of Quality and Engineering (see note 3) employed by Acme Crycland responsibility for the quality of the end product do solemnly declare my knowledge represents the product for which registration is sought. Tratings, and identification markings are in accordance with the herein na fittings is regulated by a Quality Control Program which extends to each verified by TUV Rheinland as being suitable for that believing it to be true, and knowing that it is of the same force and effect Signature of Declarer:	that the information contained in this form is true to the best of The dimensions, materials of construction, pressure temperature amed standards. I further declare that the manufacture of these plant where fabrication occurs in whole or in part and has been purpose and I make this solemn declaration conscientiously it as if made under oath.
This	Use this space for the Official Seal
Commissioner of Oaths	Ose ans space for the Official Seal
Or Notary Public: (sign) <u>Cleer Kettass vot</u>	Constitution of The Property Seal Butto a Departy of the Property Seal My Commission Expires Jul 23, 2022
This space for Populate	y Authority BON ED & PRESSURE VESSEL ACT
This registration must be revalidated after ten CRN: 0H6700.5 Rev3	10) years BONLER & PRESSURE, VESSEL ACT  REGISTRATION ONLY
FID#: _1556	
No. 1994-1935	CRN OH6700.57 REV3
Notes:  1. All Fittings shall be registered in the name of the Manufacturer.	0 0
Each Category shall be supported with two Statutory Declaration forms and one copy of supporting documentation.	CHIEF BOILER INSPECTOR
<ol> <li>The Declaration shall be made by the person having full authority and responsibility for the quality of the end product.</li> </ol>	5/19/23
4. Quality Control programs shall be resubmitted for validation.	Sould 0. Filliage Paul
11/2016	Sect 1.0 - Fittings Rev.2
CRN expires April 6th, 2033	□BLRs □PVs
	FITTINGS   NUCLEAR COMPONENTS

Nunavut	Yukon	Prince Edward Northwest Ter		Newfoundland and La	abrador
, variavas	TUROJI	Northwest Ter	niones		
Manufacturers Na	TIB; Acmo Cryogenics, Inc.				
	Cress: 2801 Milcholi Avenus, Allentov	wn, PA 18103			
Plant Locations: ear	y of Fittings to be registere	d Circle and Cat			ā
A Pipe filtings, including B Flanges: all flanges	ng couplings, tees, elbows, Ys, pl	ugs, unions, pipe cap	s, or reducers		Standard of ruction
C Valves; all line valve D Expansion joints, fie	xible connections, and have esse	embles all types		ASME B31.3,	CGA V-6
E Strainers, fillers, ser	parators, and steam trans		00 <b>4</b> 000 <b>4</b> 000 400	250	
trensmitters	including pressure gauges, level				
G Certified capacity-rate	ed pressure relief devices accept sels, piping and fusible plugs	table as primary over	pressure protection	n on	
H)Pressure retaining of	omponents that do not fall into or	ne of the above categ	ories		
N Nuclear components	s: Class 1 Class 2 Class	3 D . (Meeting CNS	C or ASME require	ments)	
Show Manufacture	rs Name, Trademark, or Log	o as it will appea	r on the produc	t Type of C	onstruction
	A COR ALB	T A		Forged D Welder	
	- PO INTE	H, CELS		Describe other:	u
	CRYOGE	INICS		1.074/03	
List of supporting	documentation and identific		I items to be re	alctared:	
	0-08051, Rev. B, Scop				
- reming er ar E	тосот, тех. В, соор	or or order reg	istration, Ca	iculations	
Scope: CRN renev	val. CGA standard cryoge	enic connections	. Includes Liqu	uid Transfer Conn. (Nitro	gen, Oxygen
Note: If the registe	ard Carbon Dioxide Trans	ster Connection: I to a hose asse	and Liquid Na	atural Gas LNG Fittings. Lassembly must be qual	ified by
proof testing and r	red fittings are connected egistered under a differer	t CRN. Scope o	f registration (	RN-D-08051 Sheet 1 T	O 4 Rev.C
(DGallant)					TO THE STATE OF TH
and responsibility for t my knowledge repres ratings, and identificat	the quality of the end product ents the product for which reg tion markings are in accordan a Quality Control Program	do solemnly declar distration is sought, see with the herein thich extends to ear	re that the inform The dimensions named standards ch plant where fa	s, materials of construction, s. I further declare that the r abrication occurs in whole or	is true to the best of pressure temperatur manufacture of these in part and has been
	and knowing that it is of the s	ang suitable for the same force and effe	it purpose and i r ect as if made un	make this solemn declaration der oath.	n conscientiously
	(IVI)	7			
Signature of Declarer:		1 - 2 - 7			
Declared before me-a This <u>/ ᠘                                  </u>		enics In			
		2002	, Ust	e this space for the Official	11 2821
Commissioner of Oatl Or Notary Public: (sig.	( 1) (///	traspor	ti	Commonweelth of Pennsylvania - Hotary ! EILEEH R PETRASOVITS - Notary Public	Seet
,	(Affix Official seal to the de	ght)		Let-lgr County Aly Commission Expires Jul 23, 2022	
	T	his space for Regula	lory Authority use.	Commission Number 1191577	
CRN. 0H6700.5	This registration must be	e revalidated efter le	1 (10) years (100)	fe date of acceptance.	
Ortivi-			Labr	ador	
FID#: 1556	- Committee				
Notes:		1	Registered OH	6700.50 Rou3	
1. All Fittings shall be r	registered in the name of the Manufac	turer.	Date May	24,2023	
	be supported with two Statutory Deci porting documentation.		Engineering and le	espection Services	
3. The Declaration sha	ill be made by the person having full a quality of the end product.	uthority and	Registered by	wetung.	
110.00.000.000.000.000.000.000.000.000.	rams shall be resubmitted for validable	on.		JTHORITY OF THE ()	10 - Fittings Rev.2
11/2016				SSURE VESSEL AND	· e - i inniña Linare

CRN expires April 6th, 2033

New Brunswick Nova Scotia Prince Edward Island Newfoundland and Labrador Nunavut Yukon Northwest Territories Manufacturers Name: Acme Cryogenics, Inc. Manufacturers Address: 2801 Milchell Avenue, Allentown, PA 18103 Plant Locations: same as above Category of Fittings to be registered. Circle one Category only Title of the Standard of A Pipe fittings, including couplings, tees, elbows, Ys, plugs, unions, pipe caps, or reducers Construction B Flanges: all flanges Valves: all line valves ASME B31.3, CGA V-6 D Expansion joints, flexible connections, and hose assemblies: all types E Strainers, filters, separators, and steam traps Measuring devices, including pressure gauges, level gauges, sight glasses, levels, or pressure 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 n Describe other: CRYOGENICS List of supporting documentation and identification of the actual items to be registered: Drawing CRN-D-08051, Rev. B, Scope of CRN Registration, Calculations Scope: CRN renewal. CGA standard cryogenic connections. Includes Liquid Transfer Conn. (Nitrogen, Oxygen and Argon), Standard Carbon Dioxide Transfer Connections and Liquid Natural Gas LNG Fittings. Note: If the registered fittings are connected to a hose assembly, the hose assembly must be qualified by proof testing and registered under a different CRN. Scope of registration CRN-D-08051 Sheet 1 TO 4 Rev.C (DGallant) Declaration: David M. Rakos, Director of Quality and Engineering (see note 3) employed by Acme Cryogenics, 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 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 TUV Rheinland as being suitable for that purpose and I make this solemn declaration conscientiously believing it to be true, and knewing that it is of the same force and effect as if made under oath. Signature of Declarer: Declared before me-at 13 生 day of Use this space for the Official Seal Commissioner of Oaths Commonwealth of Pennsylvania - Notary Seal Or Notary Public: (sign) EILEEN R PETRASOVITS - Notary Public Lehigr County
My Commission Expires Jul 23, 2022 (Affix Official seal to the right) Commission Number 1191577 This space for Regulatory Authority use. This registration must be revalidated after ten (10) years from the date of acceptance. 0H6700.5 Rev3 CRN: 1556 FID#: Notes: All Fittings shall be registered in the name of the Manufacturer. Each Category shall be supported with two Statutory Declaration forms 0H6700.5Y REV3 and one copy of supporting documentation. The Declaration shall be made by the person having full authority and 05/12/2023 responsibility for the quality of the end product. Quality Control programs shall be resubmitted for validation.

CRN expires April 6th, 2033

- Fittings Rev.2

OLEDO BRANC

Prince Edward Island

New Brunswick

Nova Scotia

New Brunswick Nunavut	Nova Scotia Yukon	Prince Edward Island Northwest Territories	Newfoundland and Labrador
Manufacturers Nar	DB' Arma Connecies Inc		
Manufacturers Add	ress: 2801 Milchell Avenue, All	polyntes D4 40403	
Plant Locations:	ne as above	BRIDWII, PA 18103	
Categor	v of Fittings to be regist	ered. Circle one Category only s, plugs, unlors, pipe caps, or reducers	Title of the Standard of Construction
C Valves: all line valve D Expansion joints, flex E Strainers, filters, sen	tible connections, and hose a		ASME B31.3, CGA V-6
G Certified capacity-rate	d pressure relief devices ac	vel gauges, alght glasses, levals, or press captable as primary over pressure protect	99 (2000)
H)Pressure retaining co	mponents that do not fall into	o one of the above categories	
N Nuclear components Show Manufacturers	Class 1 Class 2 Class Name, Trademark, or L	ass 3 [] , (Meeting CNSC or ASME required to as it will appear on the produ	rements)  Ct Type of Construction
	ACM	ESENICS	Forged o Welded & Wrought o Cast Other o Describe other:
List of supporting d	ocumentation and ident	ification of the actual items to be r	anistered:
		ope of CRN Registration, Ca	
and Argon), Standa Note: If the register	rd Carbon Dioxide Tra ed fittings are connect	ansfer Connections and Liquid Need to a hose assembly the hose	uid Transfer Conn. (Nitrogen, Oxygen Natural Gas LNG Fittings. e assembly must be qualified by CRN-D-08051 Sheet 1 TO 4 Rev.C
and responsibility for the high responsibility for the hig	e quality of the end products the product for which run markings are in accordance Quality Control Program as a few markings that it is of the straight Tuly Ab	egistration is accight. The dimension ance with the herein named standard which extends to each plant where fi being sultable for that purpose and I a same force and effect as if made un	nation contained in this form is true to the best of s, materials of construction, pressure temperature s. I further declare that the manufacture of these abrication occurs in whole or in part and has been make this solemn declaration conscientiously ider oath.  The this space for the Official Seal
r Notary Public: (sign)		enarous	EILEEN R PETRASOVITS - Hotary Public LeHer County
	(Affix Official seal to the		My Commission Expires Jul 23, 7022 Cossession Number 1191577
CRN: 0H6700.5 I	This registration must Rev3	This space for Regulatory Authority use. be revalidated after ten (10) years from the	ne date of acceptance.
FID#: 1556			
Votes:		1 444	
	stered in the name of the Manufa	Toopiboula	
<ol> <li>Each Category shall be and one copy of support</li> </ol>	supported with two Statutory Dec ting documentation,	claration forms REGISTE	. \
responsibility for the que		UNDER THE AUT	HORITY OF
	s shall be resubmitted for validati	VESSEL A	
CRN expires April 6	8th 2033	C.R.N.O.H.67c	
OLIVA exhites while	MI, 2000	SIGNED	
		DATE MAY S	
			65.00
			90.00

Prince Edward Island

New Brunswick

Nova Scotia

New Brunswick	Nova Scotia	Prince Edward		Newfoundland and Labrador	
Nunavut	Yukon	Northwest Ter	ritories		
Manufacturers Na	Me: Acme Cryogenics, inc.				
Manufacturers Add	ress; 2801 Mitchell Avenue, Al	entown, PA 18103			
Plant Locations: sar					
B Flanges: all flanges	y of Fittings to be registing couplings, tees, elbows, Y	tered. Circle one Cate s, plugs, unions, pipe cap	s, or reducers	Title of the Standard of Construction	
F Measuring devices, it transmitters G Certified capacity-rate boilers, pressure ves	exible connections, and hose parators, and steam traps including pressure gauges, it ed pressure relief devices ac sels, piping and fusible plug- omponents that do not fall in	evel gauges, sight glasses exeptable as primary over	pressure protection	54	
N Nuclear components	s: Class 1 Class 2 C	lass 3 🗆 , (Meeting CNS)	or ASME requirem	ents)	
Show Manufacture	rs Name, Trademark, or	Logo as it will appear	on the product	Type of Construction	
	ACM	GENICS		Forged a Welded 8 Wrought a Cast 8 Other a Describe other:	
List of supporting of	focumentation and iden	tification of the actua	items to be reg	stered:	
Drawing CRN-D	0-08051, Rev. B, Sc	ope of CRN Reg	istration, Calo	ulations	
and Argon), Stand	ard Carbon Dioxide Ti red fittings are connec	ansfer Connections ted to a hose asser	and Liquid Nat	d Transfer Conn. (Nitrogen, Oxygen ural Gas LNG Fittings. assembly must be qualified by RN-D-08051 Sheet 1 TO 4 Rev.C	
and responsibility for t my knowledge represe ratings, and identificat fittings is regulated by verified by TUV RIMINATO believing it to be true, Signature of Declarer. Declared before me-al	ents the product for which ion markings are in accordance a Quality Control Program and knowing that it is of the Adm e Cayo	uct do solemnly declar registration is sought dance with the herein n n which extends to eac s being suitable for that	e that the informal The dimensions, lamed standards. In plant where fab purpose and I made that if made under	and being the person having full authority ion contained in this form is true to the best of materials of construction, pressure temperature. I further declare that the manufacture of these rication occurs in whole or in part and has been ake this solemn declaration conscientiously er oath.	
This 13 4 day	of July A	5 2022	Use	his space for the Official Seal	
Commissioner of Oath Or Notary Public: (sign	1 1 11	etias vi	F	EILEEN R PETRASOVITE - Notary Jubic,  Liver Course My Communications Build 1022	
	( mm o mana ocor no un	This space for Regulate	lovititationibuska	Commission Further 1.191527	
CRN: 0H6700.5	Rev3	st be revalidated after ten	10) vaors from the	date of appropriate Vessels Act	
FID#: 1556	MILATON I			REGISTERED	
Notes.				=200 BNDEN3	
Color and the field of the consequents with	gistered in the name of the Man		CRN UH	6700 ON Rev 3	
	be supported with two Statutory I orting documentation,	Jeclaration forms	Date	2023-05-19	
	be made by the person having f	ull authority and	Signed	Goton k.	
The state of the s	quality of the end product. ams shall be resubmitted for valid	dation.	Signed	Chief Inspector	
11/2016				V. T.	
CRN expires Apri	l 6th, 2033		Territ	orial Registration Fee	