

of SAIP S.R.L. with the purpose to confirm its compliance to ASME BPVC Sec VIII 2021 and NOM-020-STPS-2011, since the pressive vessel will be installed to operate in Mexico. As a result of that review.  1. Calculation Report LA.1.6.10.X.N5.B7PTV7 Rev 1, is in compliance to the requirements of ASME BPVC Sec VIII 2021 and NOM-020 -STPS-2011  2. Drawing LA.1.6.10.X.N5.B7PTV7 Rev 0, also complies to ASME BPVC SEC VIII 2021 and NOM-020 -STPS-2011  RECOMMENDED ACTION:  NA  INSPECTION TIME:  Date: 16 May 22  Project  Project  Project  Project  Redelfo Colleged		INSPECTION REPORT								Page	1 of 5
Name: SAIP S.R.I. SOCIETA ACCUMULATORI IDROPNEUMATICI. Address: Via Lambro, 23/25/27 20073 Opera (MI) Italy Client P.Q./I.O. to Intertelic. I / Phone: I Requisition No: Via Lambro, 23/25/27 20073 Opera (MI) Italy Requisition No: Via Lambro, 23/25/27 20073 Opera (MI) Italy Requisition No: Via Lambro, 23/25/27 20073 Opera (MI) Italy Requisition No: Via Lambro, 23/25/27 20073 Opera (MI) Italy Requisition No: Via Lambro, 23/25/27 20073 Opera (MI) Italy Requisition No: Via Lambro, 23/25/27 20073 Opera (MI) Italy Requisition No: Via Lambro, 23/25/27 20073 Opera (MI) Italy Requisition No: Via Lambro, 23/25/27 20073 Opera (MI) Italy Requisition No: Via Lambro, 23/25/25/25/25/25/25/25/25/25/25/25/25/25/	EVO Job No:	90641-01	Report N	No: IR01		Date of Report	Ма	y 16 <sup>th</sup> 2022	Customer:	SAIP	S.R.L.
Address: Via Lambro, 23/25/27 20073 O'Pera (MI) Italy Client P-Quil O, to Intertek: / Attn:			CUSTOME	R DATA				INTERTEK DATA			
Address:	Name:				OBLIDE	ODNELIMATIC	ıı.	Project – Assi	gnment No	906	41-01
E-Mail:	Address:						1.5	Client P.O./I.C	), to Interte	k: /	
Intertek Contract	Attn:		1	Pho	one: /			Requisition No	o:	X	
SUPPLIER/SUB-SUPPLIER DATA   INSPECTION INFORMATION	E-Mail:		1					parameter to year and		1	
Inspection Performed:   With Customer Supplier   With Sub-Supplier   Date(s) of Visit(s):	Copies to:		Ī						act	Elis	abetta Galbiati
PO. No:  Change No:  Change No:  Requisition No:  May 16", 2022  Date of Previous Visit:  N/A  Supplier:  / Date of Previous Visit:  N/A  Supplier:  / Date of Previous Visit:  N/A  P. O. Status:  Complete   Incomplete  Incomplete  Supplier Job No:  / Project Name:  Certification NOM-020-STP-2011  Materials/Items Inspected //Reviewed:  Calculation Report and Drawing for a Pressure Vessel according ASME BPVC Sec VIII -2021 an NOM-020-STPS-2011  Sub-supplier:  NA  Sub-supplier Job No:  / Pre-Inspection Meeting Summary Attached:  / Pre-Inspection Meeting Summary Attached:  Phone:  / Pre-Inspection Meeting Summary Attached:  / Pre-Inspection Meeting Summary Attached:    Yes   No		SUF	PPLIER/SUB-S	UPPLIER	DATA		1	INS	PECTION	INFORM	MATION
Date of Previous Visit: N/A			☐ With Cus	tomer Sup	plier 🗌	With Sub-Supp	ier	Date(s) of Vis	it(s):		100
Supplier: /   Date of Next Scheduled   N/A	P.O. No:		Change No:		Requis	sition No:		May 16 <sup>th</sup> , 202	2		
Supplier:    P. O. Status:   Project Name:   P	I		t		1			Date of Previo	ous Visit:	N/A	1
Supplier Job No:	Supplier:		1	7					Scheduled	N/A	<b>\</b>
Location: / Certification NOM-020-STP-2011  Primary Contact: / Materials/Items Inspected /Reviewed:  Calculation Report and Drawing for a Pressure Vessel according ASME BPVC Sec VIII -2021 an NOM-020-STPS-2011  Sub-supplier: NA  Sub-supplier Job No: /  Location: / Pre-Inspection Meeting Summary Attached: Yes No  Phone: / E-mail: / Summary Report Attached: Yes No  INSPECTION DISPOSITION: Accept Nonconformance(s) Identified Placed on Hold Other (Explain)  INSPECTION SUMMARY AND CONCLUSION: Intertek Professional Engineer performed a documental review for Calculation Report & Drawing for a Pressure Vessel as per required for SAIR S.R.L. with the purpose to confirm its compliance to ASME BPVC Sec VIII 2021 and NOM-020-STPS-2011, since the pressivessel will be installed to operate in Mexico. As a result of that review.  1. Calculation Report LA 1.6.10.X.N5.B7PTV7 Rev 1, is in compliance to the requirements of ASME BPVC Sec VIII 2021 and NOM-020-STPS-2011  2. Drawing LA.1.6.10.X.N5.B7PTV7 Rev 0, also complies to ASME BPVC SEC VIII 2021 and NOM-020-STPS-2011  RECOMMENDED ACTION: NA  INSPECTION TIME: DAYS HOURS 1 TRAVEL HOURS: Project Redefic Callarde  Valents Vegents Vegents Reviews  1. Calculation Report LA 1.6.10.X.N5.B7PTV7 Rev 0, also complies to ASME BPVC SEC VIII 2021 and NOM-020-STPS-2011  RECOMMENDED ACTION: NA  INSPECTION TIME: DAYS HOURS 1 TRAVEL HOURS: Project Redefic Callarde				-41				P. O. Status:	⊠ Con	nplete [	] Incomplete
Primary Contact:    Phone:	Supplier Job N	o:	1		1			Project Name			
Calculation Report and Drawing for a Pressure Vessel according ASME BPVC Sec VIII -2021 an NOM-020-STPS-2011  Sub-supplier:  NA  Sub-Supplier Job No:    Cocation:	Location:		1	1	1		1	Certi	_ fication NC	DM-020-S	STP-2011
Phone:	Primary Contac	ct:	1///				-	Materials/Item	s Inspecte	d /Reviev	wed:
Sub-Supplier Job No:	Phone: /			E-mail:	T			Vessel accord	ling ASME	Drawing f BPVC S	or a Pressure ec VIII -2021 and
Primary Contact:    Pre-Inspection Meeting   Yes   No	Sub-supplier:		NA				,				
Primary Contact:    Pre-Inspection Meeting   Summary Attached:   Yes   No	Sub-Supplier J	lob No:	1								
Phone: /	Location:		1	1		/					
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Technical Valente Vers Date: 16 May 22 Project Redelfo Callerde	Intertek Professional Engineer performed a documental review for Calculation Report & Drawing for a Pressure Vessel as per request of SAIP S.R.L. with the purpose to confirm its compliance to ASME BPVC Sec VIII 2021 and NOM-020-STPS-2011, since the pressure vessel will be installed to operate in Mexico. As a result of that review.  1. Calculation Report LA.1.6.10.X.N5.B7PTV7 Rev 1, is in compliance to the requirements of ASME BPVC Sec VIII 2021 and NOM-020 -STPS-2011  2. Drawing LA.1.6.10.X.N5.B7PTV7 Rev 0, also complies to ASME BPVC SEC VIII 2021 and NOM-020 -STPS-2011  RECOMMENDED ACTION:										
Technical Valente Vora Date: 16 May 22 Project Redelfo Callardo		TIME ·		1		A COMPANY OF THE PARK OF THE P					<u>~~</u>
Specialist.   Coordinator:		AN OFFICE S			16-May			Project Coordinator:			

Title	Form Number	Revision	mm/dd/yyyy	Instructions
Inspection Report Form	MI-1220-01	E	08/07/2019	SOP-1220





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This report is made solely on the basis of the Client's instructions and/or information and materials supplied. It is not intended to be a recommendation for any particular course of action. Intertek does not accept a duty of care or any other responsibility to any person other than the Client in respect of this report and only accepts liability to the Client insofar as is expressly contained in the terms and conditions governing Intertek's provision of services. Intertek makes no warranties or representations either express or implied with respect to this report save as provided for in those terms and conditions.

### 1.0 ATTENDEES

NAME	COMPANY REPRESENTED	TITLE		
Valente Vera	Intertek	P <mark>rofessio</mark> nal Engineer		

### 2.0 MATERIALS

### 2.1 GENERIC MATERIALS

TAG / EQPT NO.	DESCRIPTION
Cylindrical shell - Valve	S <mark>A-479 316L (high allowa</mark> ble stresses) - Bar - UNS: S31603
Hemispherical head #1	SA-312 TP316L (high allowable stresses) -Smls. & wld. pipe - UNS: S31603
Reinforcement of opening - Nozzle #1	SA-312 TP316L (high allowable stresses) -Smls. & wld. pipe - UNS: S31603
Cylindrical shell #1	SA-312 TP316L (high allowable stresses) -Smls. & wld. pipe - UNS: S31603
Hemispherical head #2	SA-312 TP316L (high allowable stresses) -Smls. & wld. pipe - UNS: S31603
Cylindrical shell - <mark>uppe</mark> r	SA-312 TP316L (high allowable stresses) -Smls. & wld. pipe - UNS: S31603

### 2.2 MATERIALS INSPECTED

PO ITEM NO.	TAG / SERIAL NO.	PRODUCT / MATERIAL / ITEM NAME	ORDERED QUANTITY	PRESENTED THIS VISIT	ACCEPTED THIS VISIT	QUANTITY ACCEPTED TO DATE
N/A						
	10000		_	_		

### 3.0 DOCUMENTS USED

DOCUMENT NO.	REVISION	TITLE	APPROVAL STATUS
LA.1.6.10.X.N5.B7PTV7_ASME	1	Calculation Report	Approved
LA.1.6.10.X.N5.B7PTV7	0	Assembly Drawing	Approved

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EVO Job No: 90641-01	Report No: IR	01	Date of Report May 16 <sup>th</sup> 2022	Customer	r: SAIP S.R.L.	
ASME BPVC SEC VIII DIV 1 2021		ASME Boiler and Pressure vessel code Section VIII Rules for Construction of pressure Vessels			es for N/A	
NOM-020-STPS-2011 2011		Recipientes sujetos a presión, recipientes criogénicos y generadores de vapor o calderas - Funcionamiento - Condiciones de Seguridad.				

### 4.0 SCOPE OF INSPECTION

ITP LINE NO.	ITP ACTIVITY DESCRIPTION	ITEMS	RESULTS	CLAUSE
N/A				
		- × /		

# 5.0 EQUIPMENT AND INSTRUMENTATION USED (TO BE SUPPLIED BY SUPPLIER)

EQUIPMENT / INSTRUMENT DESCRIPTION	SERIAL NO	CALIBRATION CERT. NO.	EXPIRY DATE
N/A			

# 6.0 INSPECTION DETAILS

6.1 Document review

# 1.- Calculation Report

Document: LA.1.6.10.X.N5.B7PTV7.pdf

All calculations for each one of the vessel parts were reviewed by Intertek PE. Find below the summary.

Vessel Pressure part	ASME BPVC SEC VIII 2021 contents used to review the calculation (minimum wall thickness required)	Wall thickness obtained and result according to ASME BPVC SEC VIII 2021	Hydrostatic test calculation	Final Status
Cylindrical shell - Valve	Appendix 1, 1-2 (a) For Circumferential stress (longitudinal Joints) Appendix 1, 1-2 (b) For Longitudinal Stress (Circumferential joints) UG-16 (b) the minimum thickness permitted for shells and heads is 1.5 mm	t ≥ tr (13.25 mm ≥ 1.65 mm) t ≥ tr UG-16(b) In compliance	Pa ≥ Pt (103.63 MPa ≥ 17.55 MPa) In compliance	Approved
Hemispherical head #1	UG-32 (e) for Hemispherical heads UG-16 (b) the minimum thickness permited for shells and heads is 1.5 mm	t ≥ tr (9.50 mm ≥ 4.42 mm) t ≥ tr UG-16(b) In compliance	Pa ≥ Pt (37.18 MPa ≥ 17.55 MPa) In compliance	Approved

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EVO Job No: 90641-01	Report No: IR01	Date of Re	oort May 16 <sup>th</sup> 2022	Customer:	SAIP	S.R.L.
Reinforcement of opening - Nozzle #1	Appendix 1-7(a) Opening maximum allowable Pmax = 14.48 Mpa Total pressure Pt = 13.50 MF		Pmax = 14.48 Mpa Pt = 13.50 MPa In compliance	Pt ≤ Pr In comp		Approved
Cylindrical shell #1	UG-27 (1) For Circumferential (longitudinal Joints) UG-27 (2 Longitudinal Stress (Circumfe joints)	2)	t ≥ tr (9.50 mm ≥ 9.42 mm) t ≥ tr UG-16(b) In compliance	Pa ≥ Pt MPa ≥ MPa In comp	17.5 <b>5</b> a)	Approved
Hemispherical head #2	UG-32 (e) for Hemiespherical heads UG-16 (b) the minimum thickness permited for shells and heads is 1.5 mm		t ≥ tr (9.50 mm ≥ 4.42 mm) t ≥ tr UG-16(b) In compliance	Pa ≥ Pt MPa ≥ MPa In comp	17.55 a)	Approved
Cylindrical shell - upper	UG-27 (1) For Circumferential (longitudinal Joints) UG-27 (2 Longitudinal Stress (Circumfe joints)	)	t ≥ tr (5.50 mm ≥ 4.93 mm) t ≥ tr UG-16(b) In compliance	Pa≥Pt MPa≥ MPa In comp	17.55 a)	Approved

# 2.- Drawing

Document: LA.1.6.10.X.N5.B7PTV7.pdf

The drawing was reviewed by Intertek PE. Find below the summary.

Drawing Section	Comments	Final Status	
Vessel drawing with measurements (mm) and details	None	Approved	
Nameplate Design	None	Approved	
Nameplate ASME	None	Approved	
Basic design Data	None	Approved	
Spare parts	None	Approved	
Material specification	None	Approved	

# 3.- Recommendation

According to the NOM-020-STPS-2011, paragraph, 9.3 subsection h-1

- 9.3 The file of each of the equipment classified in Category III, which are installed in the work center, must contain as minimum, the following:
- h) The technical sheet, which at least considers:
  - 1) The fluid(s) handled and its type of risk, if any;

Neither the calculation Report nor the drawing mention the operation fluid of the vessel, however this information shall be considered in the technical sheet of the equipment, before the final assessment with the NOM-020-STPS-2011.

### 7.0 NON-CONFORMANCES

NCR#	DESCRIPTION	DATE RAISED	DATE CLOSED
N/A			

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8.0 QUALITY OBSER	VATIONS			

Item No.	Material Inspected: Choose an item.				
Observation Type:  Positive  Negative		Criticality: Critical Non-Critical			
Category: Choose an item.		Sub-Category: Choose an item.			
Further Comments: I	N/A				

Item No.	Material Inspected: Choose an item.	
Observation Type:	]Positive ☐ Negative	Criticality: ☐ Critical ☐ Non-Critical
Category: Choose	an item.	Sub-Category: Choose an item.
Further Comments:	N/A	

### 9.0 ATTACHMENTS TO THIS REPORT

- Calculation Report, signed by Intertek PE Valente Vera
- Assembly Drawing, signed by Intertek PE Valente Vera

# 10.0 PHOTOGRAPHS

N/A

# **END OF THIS REPORT**



May 16th, 2022 Valente Vera Mejía Professional Engineer Mexican Professional License # 1356891



