FORM U-1A MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS
(Alternative Form for Single Chamber, Completely Shop or Field Fabricated Vessels Only)
As Required by the Provisions of the ASME Boiler and Pressure Vessel Code Rules, Section VIII, Division 1

1. Manufactured and certified by **PMI-Technology Sdn Bhd Lot 11004, 4 3/4 Miles, Jalan Lahat, 31500 Lahat, Perak Malaysia** (Name and address of Manufacturer)

2. Manufactured for **Desmet Ballestra 450 Franklin Gateway SE, Suite 170 Marietta, GA 30067 USA** (Name and address of Purchaser)

3. Location of installation **World Energy, Paramount, CA 14700, Downey Avenue, CA – 90723 Paramount, CA USA** (Name and address)

4. Type **Vertical** (Horizontal or vertical, tank) | **PMI-PV-8784 -** (Manufacturer's serial number) | **NONE** (CRN) | **See Attached Form U-4** (Drawing number) | **130 -** (National Board number) | **2022** (Year built)

5. ASME Code, Section VIII, Division 1 **2019** [Edition and Addenda, if applicable (date)] | **NO** (Code Case numbers) | **NO** [Special service per UG-120(d)]

6. Shell **SA240 304** (Material spec. number, grade) | **5 MM** (Nominal thickness) | **0 MM** (Corr. allow.) | **396 MM** (Inner diameter) | **1149 MM** [Length (overall)]

Body Flanges on Shells												
									Bolting			
No.	Type	ID	OD	Flange Thk	Min Hub Thk	Material	How Attached	Location	Num & Size	Bolting Material	Washer (OD, ID, thk)	Washer Material
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-

7. Seams **Type 1 X 1** [Long. (welded, dbl., sngl., lap, butt)] | **None** [R.T. (spot or full)] | **70** (Eff., %) | **None** (H.T. temp.) | **None** (Time, hr) | **Type 1 X 2** [Girth (welded, dbl., sngl., lap, butt)] | **None** [R.T. (spot or full)] | **70** (Eff., %) | **1** (No. of Courses)

8. Heads: (a) Material **SA240 304** (Spec. no., grade) (b) Material **SA240 304** (Spec. no., grade)

	Location (Top, Bottom, Ends)	Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (Convex or Concave)
(a)	**Top**	**4.3 MM**	**0 MM**	**Toris**	**Toris**	**No**	**No**	**No**	**No**	**Convex & Concave**
(b)	**Bottom**	**4.3 MM**	**0 MM**	**Toris**	**Toris**	**No**	**No**	**No**	**No**	**Convex & Concave**

Body Flanges on Heads												
									Bolting			
	Location	Type	ID	OD	Flange Thk	Min Hub Thk	Material	How Attached	Num & Size	Bolting Material	Washer (OD, ID, thk)	Washer Material
(a)	(b)	-	-	-	-	-	-	-	-	-	-	-
(b)	-	-	-	-	-	-	-	-	-	-	-	-

9. MAWP **10.0 Bar(G)** (Internal) | **1.0 Bar(G)** (External) at max. temp. **150 °C** (Internal) | **150 °C** (External)

Min. design metal temp. **0 °C** at **-1.0/10.0 Bar(G)** . Hydro., pneu., or comb. test pressure **Hydro 13.8 Bar(G)**

Proof test **None**

10. Nozzles, inspection and safety valve openings:

Purpose (Inlet, Outlet, Drain etc.)	No.	Diameter or Size	Type	Material		Nozzle Thickness		Reinforcement Material	Attachment Details		Location (Insp. Open.)
				Nozzle	Flange	Nom.	Corr.		Nozzle	Flange	
		Refer Form U-4									

11. Supports: Skirt **NO** (Yes or no) Lugs **NO** (Number) Legs **NO** (Number) Other **Hanging Support QTY : 2** (Describe) Attached **Shell & Welded** (Where and how)

12. Remarks: Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report: **NO** (Name of part, item number, Manufacturer's name and identifying stamp)

July 22, 2022

22/7/2022

FORM U-1A

FORM U-1A

Manufactured by PMI-Technology Sdn Bhd Lot 11004, 4 ¾ Miles, Jalan Lahat, 31500 Lahat, Perak Malaysia

Manufacturer's Serial No PMI-PV-8784 CRN NO National Board No. 130

CERTIFICATE OF SHOP/FIELD COMPLIANCE

We certify that the statements made in this report are correct and that all details of design, material, construction, and workmanship of this vessel conform to the ASME BOILER AND PRESSURE VESSEL CODE, Section VIII, Division 1. "U" Certificate of Authorization Number 53,598 expires September 20, 2022 .

Date July 22, 2022 Co. name PMI-Technology Sdn Bhd (Manufacturer) Signed (Representative)

CERTIFICATE OF SHOP/FIELD INSPECTION

Vessel constructed by PMI-Technology Sdn Bhd at Lot 11004, 4 ¾ Miles, Jalan Lahat, 31500 Lahat, Perak Malaysia

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and employed by ABSG Consulting Inc., An Affiliate of ABS Boiler and Marine Insurance Company of Texas, USA have inspected the component described in this Manufacturer's Data Report on JULY 22, 2022, and state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with ASME BOILER AND PRESSURE VESSEL CODE, Section VIII, Division 1. By signing this certificate neither the Inspector nor his/her employer makes any warranty, expressed or implied, concerning the pressure vessel described in this Manufacturer's Data Report. Furthermore, neither the Inspector nor his/her employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date JULY 22, 2022 Signed (Authorized Inspector) Commissions 13459AI [National Board Authorized Inspector Commission Number]

FORM U-4 MANUFACTURER'S DATA REPORT SUPPLEMENTARY SHEET
As Required by the Provisions of the ASME Boiler and Pressure Vessel Code Rules, Section VIII, Division 1

1. Manufactured and certified by: PMI-Technology Sdn Bhd Lot 11004, 4 3/4 Miles, Jalan Lahat, 31500 Lahat, Perak Malaysia
(Name and address of Manufacturer)

2. Manufactured for: Desmet Ballestra 450 Franklin Gateway SE, Suite 170 Marietta, GA 30067 USA
(Name and address of Purchaser)

3. Location of installation: World Energy, Paramount, CA 14700, Downey Avenue, CA – 90723 Paramount, CA USA
(Name and address)

4. Type: Vertical (Horizontal, vertical, or sphere) | Buffertank 406/1525/150 (Tank, separator, heat exch., etc.) | PMI-PV-8784 (Manufacturer's serial number)

NO (CRN) | Remark No. 1 (Drawing number) | 130 (National Board number) | 2022 (Year built)

Data Report Item Number | Remarks

10. Nozzles, inspection and safety valve openings:

Purpose (Inlet, Outlet, Drain etc.)	No.	Diameter or Size	Type	Material		Nozzle Thickness		Reinforcement Material	Attachment Details		Location (Insp. Open.)
				Nozzle	Flange	Nom.	Corr.		Nozzle	Flange	
Inlet (N9)	1	DN80	SORF CL. 150	SA312 TP304	SA182 F304	5.5 MM	0	Inherent	Fig.UW-16.1(c)	Fig.UW-21(1)	Top Head
Outlet (N10)	1	DN80	SORF CL. 150	SA312 TP304	SA182 F304	5.5 MM	0	Inherent	Fig.UW-16.1(c)	Fig.UW-21(1)	Bottom Head

12. Remarks :-

1. Drawing Number – 14240-BT-A REV. 3 – General Arrangement Drawing
14240-BT-B REV. 0 – Details Drawing
2. Non-Lethal Service
3. Inspection opening as per para UG-46(e) non-corrosive service
4. Hydrostatic Test in horizontal position
5. Impact Test exempted as per UHA-51 (d)(1)(a)

Certificate of Authorization: Type U No. 53,598 Expires September 20, 2022

Date July 22, 2022 Name PMI-Technology Sdn. Bhd. (Manufacturer) Signed (Representative)

Date JULY 22, 2022 Signed (Authorized Inspector) Commissions 13489 AI [National Board Authorized Inspector Commission Number)