

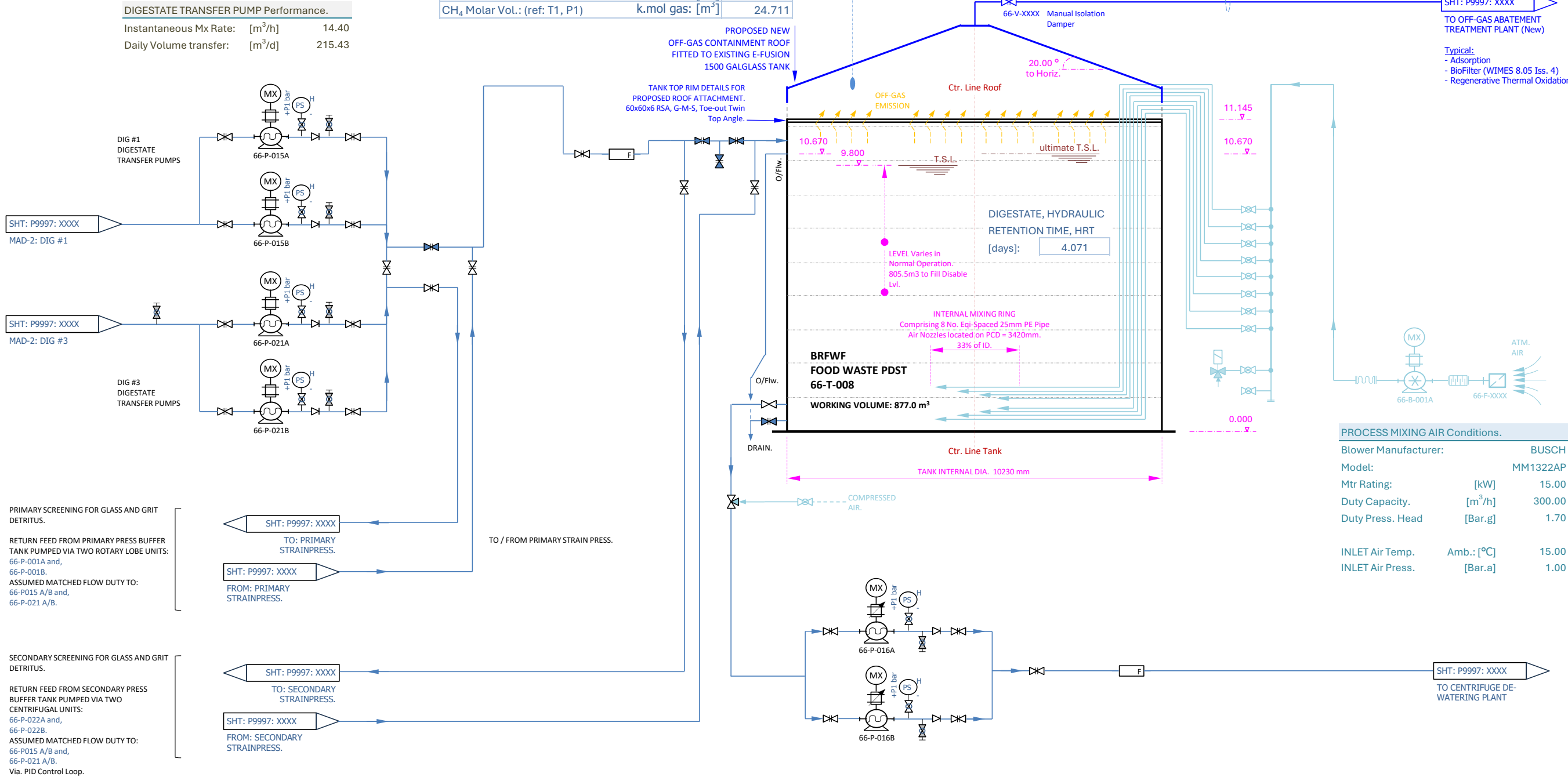
FIG - 1.0 PSEUDO-PID OF BRFWF, FOOD WASTE PDST SYSTEM. :: Rev. // R2-1

SECTION: P1-4.6 thro PDST CHanneled OFF-GAS EMISSIONS (VOCs Only)			SECTION: P1-4.10: OTHER OFF-GAS CONTAMINANTS			SECTION: P1-4.11: PDST HEADSPACE ATMOSPHERE:			SECTION: P1-4.9: PERFORMANCE LIMIT: From BAT-53, Table: 6.10:		
P1-4.8: UNTREATED OFF-GAS STREAM - Estimated			UNTREATED OFF-GAS STREAM - Estimated								
CONTINUOUS MEAN /STEADY-STATE:	Vol. Rate: [m ³ /d]	220.99	HYDROGEN SULPHIDE	DESIGN: [ppm. v/v]	885.00	At Max Air Mix Rate: 300m3/h: VOID Conc.:	[ppm. v/v]	3.069%	BAT-53 TVOC Limit:	[mg/Nm ³]	20.000
CH4 Emission (Calc.d):	Vol. Rate: [m ³ /h]	9.21	Dataset: Factored Upper-Quartile values.	[mg/Nm ³]	1220.63			Below LFL. Gas Mix Lean.	Design Target: TVOC Limit:	[%]	75.00%
	Mass Rate: [mg/h]	5900560.06	AMMONIA	[ppm. v/v]	No Data.	At Min Air Mix Rate: 173m3/h: VOID Conc.:	[ppm. v/v]	5.323%	Design Target TVOC Limit:	[mg/Nm ³]	15.000
EQUATES:	MIN Factored Emission Rate:	[mg/m ² /s]	20.938		---			Flammable Gas Mixture Conc.	BAT-53 HCL Limit:	[mg/Nm ³]	5.000
	Est.d untreated headspace conc.:	[mg/m ³]	4831.46	MERCAPTANs	[ppm. v/v]	No Data.			Hydrogen Sulphide, H2S	> Reduction: [%]	98.50%
OVERALL:	AVERAGE Factored, Emission Rate:	[mg/m ² /s]	34.221		[mg/Nm ³]				Cmts:		
	Est.d untreated headspace conc.:	[mg/m ³]	7896.35	OTHER #1	[ppm. v/v]	-			Preferred abatement treatment technology comprises:		
	PEAK Factored, Emission Rate:	[mg/m ² /s]	45.346		[mg/Nm ³]				[a] - Adsorption. [b] - Biofilter.		
	Est.d untreated headspace conc.:	[mg/m ³]	10463.53	Notes:	-				[c] - Regenerative Thermal Oxidation (RTO).High-Heat.		
AGGREGATE: SHORT-TERM PEAK DURATION:	[mins per day]	58.621			-				Odour Abatement Plant shall, where relevant, comply with		
CLASSIFICATION: High VOC Conc. Application.					-				WIMES 8.05 Iss.4.		

KEY:

PROPOSED NEW.

T.S.L Top Sludge (/Digestate) Level.



DRAFT :: SUBJECT TO FINAL CHECKS and, SAMPLE DATA VERIFICATION SHOULD TIMEFRAME PERMIT.

PRIME OBJECTIVE IS TREATMENT OF TVOCs TO STATED PERFORMANCE LIMIT.

PROJECT TITLE: WW Enterprises : BRFWF

SUBJECT /Elem.t: PDST OFF-GAS IED Compliance :: Element

STATUS: DRAFT * FOR COMMENT

Engineer: Date: 25/07/2025

Checked: Date: 25/07/2025

CLIENT Id:

Reference Nr:

// Rv.

// R2-1

DESIGN SHEET