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Revision history		
Rev.	**Date.**	**Description**
001	15/02/2023	First Issue
002	08/03/2024	Updated according to comments
003	13/08/2025	Updated according to comments

Document Title:	**BLPH Project - Load List**
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1 MW Megablock Load List	
Date	13/08/2025
Responsible	RKN
Rev.	3

Note: With regards to BLPH platform modes, the Megablock Load List remains these 3 load cases for standby depending on the ambient temperature. During blackout the Megablock load is zero. When Megablock is running it covers its own BOP which equals zero load from BLPH.

													Case 1 - Hot Standby (-10 °C)			Case 2 - Hot Standby (10 °C)			Case 3 - Hot Standby (25 °C)		
Full DT	Pretty Name	Description	Location DT	Location Pretty Name	Nameplate Voltage [Vac]	Nameplate Current [A]	Nameplate Power [kW]	Control Method	Control DT (if applicable)	Fusing	Fusing DT	Fuse Characteristics	Comments	Load [%]	Duty Cycle [%]	Average Power Consumption [kW]	Load [%]	Duty Cycle [%]	Average Power Consumption [kW]	Load [%]	Duty Cycle [%]	Average Power Consumption [kW]
=JA01+UC07-EB01-1	Container Heater, Element 1/3	40ft Container Heating Element 1	+UC07	40ft Container HVAC System	400	13,0	9,00	Solid-State Contactor	=BA20+UC20-QB13	MCCB	=LA01+UC20-FC13	16A, B-curve	480V Heater operated at 400V	100	100	9,00	100	0	0,00	100	0	0,00
=JA01+UC07-EB01-2	Container Heater, Element 2/3	40ft Container Heating Element 2	+UC07	40ft Container HVAC System	400	13,0	9,00	Solid-State Contactor	=BA20+UC20-QB14	MCCB	=LA01+UC20-FC14	16A, B-curve	480V Heater operated at 400V	100	0	0,00	100	0	0,00	100	0	0,00
=JA01+UC07-EB01-3	Container Heater, Element 3/3	40ft Container Heating Element 3	+UC07	40ft Container HVAC System	400	13,0	9,00	Solid-State Contactor	=BA20+UC20-QB15	MCCB	=LA01+UC20-FC15	16A, B-curve	480V Heater operated at 400V	100	0	0,00	100	0	0,00	100	0	0,00
=JA01+UC07-GQ08	DCDC Cooling Fan A	Heater/Cooling Fan 40ft Container 1/2	+UC07	40ft Container HVAC System	400	1,4	1,00	EC Motor	n/a	MCCB	=BA20+UC20-FC16	6A, B-curve	Fan with EC motor	70	100	0,70	70	0	0,00	40	100	0,40
=JA01+UC07-GQ09	DCDC Cooling Fan B	Heater/Cooling Fan 40ft Container 2/2	+UC07	40ft Container HVAC System	400	1,4	1,00	EC Motor	n/a	MCCB	=BA20+UC20-FC17	6A, B-curve	Fan with EC motor	70	100	0,70	70	0	0,00	40	100	0,40
=JA01+DA01-GQ06	Ventilation Intake Fan A	Upper Fan	+DA01	40ft Container, Inside	400	5,1	3,50	EC Motor	n/a	MCCB	=BA20+UC20-FC11	6A, B-curve	Fan with EC motor	0	0	0,00	0	0	0,00	0	0	0,00
=JA01+DA01-GQ07	Ventilation Intake Fan B	Lower Fan	+DA01	40ft Container, Inside	400	5,1	3,50	EC Motor	n/a	MCCB	=BA20+UC20-FC12	6A, B-curve	Fan with EC motor	0	0	0,00	0	0	0,00	0	0	0,00
=BA20+UC20-TB01	FCwave1+2 PSU	24V PSU for FCwave 1+2 with UPS	+UC20	40ft Control Cabinet	400	1,4	0,96	n/a	n/a	MCCB	=BA20+UC20-FC20	6A, B-curve		20	100	0,19	20	100	0,19	20	100	0,19
=BA20+UC20-TB01	FCwave3+4 PSU	24V PSU for FCwave 3+4 with UPS	+UC20	40ft Control Cabinet	400	1,4	0,96	n/a	n/a	MCCB	=BA20+UC20-FC21	6A, B-curve		20	100	0,19	20	100	0,19	20	100	0,19
=BA20+UC20-TB01	FCwave5+6 PSU	24V PSU for FCwave 5+6 with UPS	+UC20	40ft Control Cabinet	400	1,4	0,96	n/a	n/a	MCCB	=BA20+UC20-FC23	6A, B-curve		20	100	0,19	20	100	0,19	20	100	0,19
=BA20+UC20-TB30	Control System PSU	24V PSU for Control System with UPS	+UC20	40ft Control Cabinet	400	0,7	0,48	n/a	n/a	MCCB	=BA20+UC20-FC30	6A, B-curve		80	100	0,38	80	100	0,38	80	100	0,38
=BA20+UC30-EA01	Cabinet Lighting	Cabinet Lighting for Coolant Control Cabinet	+UC30	Coolant Skid Cabinet	230	0,1	0,05	Integrated Movement Sensor	n/a	MCCB	=BA20+UC30-FC02	1A, C-curve		100	5	0,00	100	5	0,00	100	5	0,00
=BA20+UC30-EB01	Cabinet Heater	Cabinet Heater for Coolant Control Cabinet	+UC30	Coolant Skid Cabinet	230	0,4	0,15	Thermostat	=BA20+UC30-BT01	MCCB	=BA20+UC30-FC03	4A, C-curve		100	100	0,15	100	0	0,00	100	0	0,00
=BA20+UC30-TB30	Control System PSU	24V PSU for Control System with UPS	+UC30	Coolant Skid Cabinet	400	0,7	0,48	n/a	n/a	MCCB	=BA20+UC30-FC100	6A, B-curve		100	100	0,48	100	100	0,48	100	100	0,48
=HE03+DA01-GP11	Coolant Pump, LT	Electronics Cooling	+DA01	40ft Container, Inside	400	5,8	4,00	VFD	=HE03-DA01-TA11	MCCB	=BA20+UC30-FC11	10A, B-curve		80	0	0,00	80	0	0,00	80	0	0,00
=HE01+DA02-GP19	Coolant Pump, HT1	Coolant Pump for FCwave 1-3	+DA02	Coolant Skid	400	21,7	15,00	VFD	=HE01+UC30-TA19	MCCB	=BA20+UC30-FC28	25A, B-curve		60	0	0,00	60	0	0,00	60	0	0,00
=HE02+DA02-GP29	Coolant Pump, HT2	Coolant Pump for FCwave 4-6	+DA02	Coolant Skid	400	21,7	15,00	VFD	=HE01+UC30-TA29	MCCB	=BA20+UC30-FC38	25A, B-curve		60	0	0,00	60	0	0,00	60	0	0,00
=HE01+DA02-GQ11	HT1 Ventilation Fan 1		+DA02	Coolant Skid	400	5,8	4,00	VFD	=HE01+UC41-TA11	MCCB	=BA20+UC30-FC20	6A, B-curve		70	0	0,00	70	0	0,00	70	0	0,00
=HE01+DA02-GQ12	HT1 Ventilation Fan 2		+DA02	Coolant Skid	400	5,8	4,00	VFD	=HE01+UC41-TA12	MCCB	=BA20+UC30-FC21	6A, B-curve		70	0	0,00	70	0	0,00	70	0	0,00
=HE01+DA02-GQ13	HT1 Ventilation Fan 3		+DA02	Coolant Skid	400	5,8	4,00	VFD	=HE01+UC41-TA13	MCCB	=BA20+UC30-FC22	6A, B-curve		70	0	0,00	70	0	0,00	70	0	0,00
=HE01+DA02-GQ14	HT1 Ventilation Fan 4		+DA02	Coolant Skid	400	5,8	4,00	VFD	=HE01+UC41-TA14	MCCB	=BA20+UC30-FC23	6A, B-curve		70	0	0,00	70	0	0,00	70	0	0,00
=HE01+DA02-GQ15	HT1 Ventilation Fan 5		+DA02	Coolant Skid	400	5,8	4,00	VFD	=HE01+UC41-TA15	MCCB	=BA20+UC30-FC24	6A, B-curve		70	0	0,00	70	0	0,00	70	0	0,00
=HE01+DA02-GQ16	HT1 Ventilation Fan 6		+DA02	Coolant Skid	400	5,8	4,00	VFD	=HE01+UC41-TA16	MCCB	=BA20+UC30-FC25	6A, B-curve		70	0	0,00	70	0	0,00	70	0	0,00
=HE02+DA02-GQ21	HT2 Ventilation Fan 1		+DA02	Coolant Skid	400	5,8	4,00	VFD	=HE01+UC41-TA21	MCCB	=BA20+UC30-FC30	6A, B-curve		70	0	0,00	70	0	0,00	70	0	0,00
=HE02+DA02-GQ22	HT2 Ventilation Fan 2		+DA02	Coolant Skid	400	5,8	4,00	VFD	=HE01+UC41-TA22	MCCB	=BA20+UC30-FC31	6A, B-curve		70	0	0,00	70	0	0,00	70	0	0,00
=HE02+DA02-GQ23	HT2 Ventilation Fan 3		+DA02	Coolant Skid	400	5,8	4,00	VFD	=HE01+UC41-TA23	MCCB	=BA20+UC30-FC32	6A, B-curve		70	0	0,00	70	0	0,00	70	0	0,00
=HE02+DA02-GQ24	HT2 Ventilation Fan 4		+DA02	Coolant Skid	400	5,8	4,00	VFD	=HE01+UC41-TA24	MCCB	=BA20+UC30-FC33	6A, B-curve		70	0	0,00	70	0	0,00	70	0	0,00
=HE02+DA02-GQ25	HT2 Ventilation Fan 5		+DA02	Coolant Skid	400	5,8	4,00	VFD	=HE01+UC41-TA25	MCCB	=BA20+UC30-FC34	6A, B-curve		70	0	0,00	70	0	0,00	70	0	0,00
=HE02+DA02-GQ26	HT2 Ventilation Fan 6		+DA02	Coolant Skid	400	5,8	4,00	VFD	=HE01+UC41-TA26	MCCB	=BA20+UC30-FC35	6A, B-curve		70	0	0,00	70	0	0,00	70	0	0,00
=HE03+DA04-GQ31	LT Ventilation Fan 1		+DA02	Coolant Skid	400	5,8	4,00	VFD	=HE01+UC41-TA31	MCCB	=BA20+UC30-FC10	6A, B-curve		70	0	0,00	70	0	0,00	70	0	0,00
=HA01+DA01-EA01	Hydrogen Heater, Heater 1/2		+DA02	40ft Container, Outside	400	13,0	9,00	Solid-State Contactor	=BA30+UC30-QA10	MCCB	=BA20+UC30-FC41	16A, Z-curve		100	40	3,60	100	20	1,80	100	0	0,00
=HA01+DA01-EA02	Hydrogen Heater, Heater 2/2		+DA02	40ft Container, Outside	400	13,0	9,00	Solid-State Contactor	=BA30+UC30-QA11	MCCB	=BA20+UC30-FC42	16A, Z-curve		100	0	0,00	100	0	0,00	100	0	0,00
=JA01+DA03-EB02	Container Heater, 10ft	Heating Element, 10ft container	+DA03	10ft Container, Inside	400	13,0	9,00	Integrated Thermostat	n/a	MCCB	=LA01+UC31-FC04	10A, B-curve		100	25	2,25	100	0	0,00	100	0	0,00
=JA01+DA03-EB02	Container Heater Fan, 10ft		+DA03	10ft Container, Inside	400	1,0	0,70	Contactor	=LA01+UC31-QA01	MCCB	=LA01+UC31-FC07	6A, B-curve		100	100	0,70	100	0	0,00	100	0	0,00
=JA01+DA03-GQ03	Ventilation Fan, 10ft		+DA03	10ft Container, Inside	400	8,2	5,70	EC Motor	n/a	MCCB	=LA01+UC31-FC04	10A, B-curve	Fan with EC motor	30	0	0,00	30	0	0,00	30	100	1,71
=LA01+UC31-TB01	Control System PSU	Control System	+UC31	10ft Control Cabinet	400	0,7	0,48	n/a	n/a	MCCB	=LA01+UC31-FC01	4A, B-curve		80	100	0,38	80	100	0,38	80	100	0,38
=LA01+UC31-TB02	Control System PSU	Breaker Supply PSU	+UC31	10ft Control Cabinet	400	1,4	0,96	n/a	n/a	MCCB	=LA01+UC31-FC02	4A, B-curve		80	1	0,01	80	1	0,01	80	1	0,01
													Summation:			**18,93 [kW]**			**3,63 [kW]**			**4,34 [kW]**