DRAWING NO. 123A90-DDL-PP-DL-30027 REV. 06

950GDZ-01102
E 4185.0MM N 35375.0MM U 32560.0MM

950FDZ-02101
E -1013.5MM N 28900.0MM U 32591.0MM

950GDZ-01103
E 8080.0MM N 37205.0MM U 32568.0MM

950FDZ-01103
E 15299.0MM N 41944.0MM U 32560.0MM

950FDZ-01102
E -1026.0MM N 41892.0MM U 32291.0MM

950FDZ-01101
E -1013.5MM N 28819.0MM U 32255.0MM

950GDZ-04210
E 4447.2MM N 35355.0MM U 27067.0MM
950GDZ-04211
E 4287.2MM N 35355.0MM U 27067.0MM
950GDZ-04212
E 4787.2MM N 35355.0MM U 27067.0MM
950SDZ-04210
E 4647.1MM N 35355.0MM U 27092.0MM
950SDZ-04211
E 4487.1MM N 35355.0MM U 27092.0MM
950SDZ-04212
E 4987.1MM N 35355.0MM U 27092.0MM
NOTE 5

950GDZ-04204
E 3626.6MM N 37650.7MM U 26866.0MM
950GDZ-04205
E 4226.6MM N 37650.7MM U 26866.0MM
950GDZ-04206
E 32626.6MM N 37650.7MM U 26866.0MM
950SDZ-04204
E 3826.5MM N 37650.7MM U 26891.0MM
950SDZ-04205
E 4426.5MM N 37650.7MM U 26892.0MM
950SDZ-04206
E 32826.5MM N 37650.7MM U 26892.0MM
NOTE 5

950GDZ-04216
E 3246.0MM N 31265.0MM U 27567.0MM
950GDZ-04217
E 4385.7MM N 31265.0MM U 27567.0MM
950GDZ-04218
E 4475.7MM N 31265.0MM U 27567.0MM
950SDZ-04216
E 3445.7MM N 31265.0MM U 27592.0MM
950SDZ-04217
E 4585.7MM N 31265.0MM U 27592.0MM
950SDZ-04218
E 4675.7MM N 31265.0MM U 27592.0MM
NOTE 5

950GDZ-04201
E 7750.0MM N 37137.0MM U 28565.0MM
950GDZ-04202
E 8000.0MM N 37137.0MM U 28565.0MM
950GDZ-04203
E 8250.0MM N 37137.0MM U 28565.0MM
950SDZ-04201
E 7750.0MM N 37463.0MM U 28500.0MM
950SDZ-04202
E 8000.0MM N 37463.0MM U 28500.0MM
950SDZ-04203
E 8250.0MM N 37463.0MM U 28500.0MM
NOTE 6

950GDZ-04207
E 7605.0MM N 33837.0MM U 29065.0MM
950GDZ-04208
E 8000.0MM N 33837.0MM U 29065.0MM
950GDZ-04209
E 8405.0MM N 33837.0MM U 29065.0MM
950SDZ-04207
E 7605.0MM N 34163.0MM U 29000.0MM
950SDZ-04208
E 8000.0MM N 34163.0MM U 29000.0MM
950SDZ-04209
E 8405.0MM N 34163.0MM U 29000.0MM
NOTE 6

950GDZ-01101
E 10195.0MM N 36203.0MM U 32560.0MM
950FDZ-01104
E 18102.0MM N 30422.0MM U 32460.0MM
950FDZ-02103
E 18102.0MM N 30364.0MM U 32310.0MM

950FDZ-04101
E 446.0MM N 40009.0MM U 27310.0MM
05

950FDZ-04103
E 15627.0MM N 40000.0MM U 27310.0MM
05

950GDZ-04213
E 7305.0MM N 30737.0MM U 29065.0MM
950GDZ-04214
E 7563.0MM N 30737.0MM U 29065.0MM
950GDZ-04215
E 7813.0MM N 30737.0MM U 29065.0MM
950SDZ-04213
E 7305.0MM N 31063.0MM U 29000.0MM
950SDZ-04214
E 7563.0MM N 31063.0MM U 29000.0MM
950SDZ-04215
E 7813.0MM N 31063.0MM U 29000.0MM
NOTE 6

950GDZ-02101
E 1902.0MM N 31140.0MM U 36460.0MM
950GDZ-02102
E 6002.0MM N 31140.0MM U 36460.0MM
950GDZ-02103
E 10002.0MM N 31140.0MM U 36460.0MM
950GDZ-02104
E 14452.0MM N 31140.0MM U 36460.0MM
950GDZ-02105
E 10002.0MM N 31145.0MM U 40960.0MM
950GDZ-02106
E 14008.0MM N 25004.0MM U 40960.0MM
950GDZ-02107
E 1952.0MM N 31145.0MM U 40960.0MM
950GDZ-02108
E 6008.0MM N 25005.01MM U 40960.0MM
FIRST LEVEL PLATFORM
SECOND LEVEL PLATFORM

950FDZ-04102
E 550.0MM N 28005.0MM U 27310.0MM
950FDZ-05101
E 550.0MM N 27990.0MM U 27310.0MM
05

950GDZ-02119
E 13667.0MM N 24800.0MM U 36460.0MM
950GDZ-02117
E 1802.0MM N 24900.0MM U 36460.0MM

950GDZ-02118
E 1633.0MM N 15200.0MM U 36860.0MM
950GDZ-02120
E 14433.0MM N 15200.0MM U 37060.0MM

950GDZ-02109
E 1627.0MM N 14981.0MM U 37060.0MM
950GDZ-02110
E 6233.0MM N 10064.0MM U 37060.0MM
950GDZ-02111
E 9627.0MM N 14981.0MM U 37060.0MM
950GDZ-02112
E 13733.0MM N 10064.0MM U 37060.0MM
950GDZ-02113
E 63930.0MM N 11365.0MM U 32578.0MM
950GDZ-02114
E 9455.0MM N 11365.0MM U 32578.0MM
950GDZ-02115
E 5455.0MM N 11365.0MM U 32578.0MM
950GDZ-02116
E 2745.0MM N 11365.0MM U 32578.0MM
FLOOR LEVEL PLATFORM
FIRST LEVEL PLATFORM

950FDZ-02104
E 18008.0MM N 11267.0MM U 32445.0MM
950FDZ-03104
E 18094.0MM N 11117.0MM U 32291.0MM
950GDZ-03109
E 13733.0MM N 10064.0MM U 36760.0MM
950GDZ-03105
E 13330.0MM N 8928.0MM U 35743.0MM

950GDZ-03107
E 3533.0MM N 10064.0MM U 37060.0MM
950FDZ-03101
E -1014.0MM N 11200.0MM U 32441.0MM
950FDZ-02102
E -1032.0MM N 11331.0MM U 32291.0MM

950FDZ-03103
E 18032.0MM N 624.0MM U 32291.0MM
950GDZ-03108
E 6233.0MM N 9522.0MM U 36760.0MM
950GDZ-03102
E 6468.0MM N 9522.0MM U 34762.0MM
950GDZ-03103
E 2019.0MM N 6506.0MM U 35747.0MM
950GDZ-03104
E 3254.0MM N 4236.0MM U 37690.0MM
950GDZ-03101
E 4965.0MM N 2140.0MM U 37690.0MM
950FDZ-03102
E -1032.0MM N 699.0MM U 32391.0MM

950FDZ-05102
E 550.0MM N 12017.0MM U 25310.0MM
950FDZ-06101
E 550.0MM N 11988.0MM U 25460.0MM

950GDZ-06201
E 7800.0MM N 1837.0MM U 28915.0MM
950GDZ-06202
E 8000.0MM N 1837.0MM U 28915.0MM
950GDZ-06203
E 8200.0MM N 1837.0MM U 28915.0MM
950SDZ-06201
E 7800.0MM N 2163.0MM U 28850.0MM
950SDZ-06202
E 8000.0MM N 2163.0MM U 28850.0MM
950SDZ-06203
E 8200.0MM N 2163.0MM U 28850.0MM
NOTE 5

950GDZ-06204
E 3490.0MM N 2739.0MM U 27569.0MM
950GDZ-06205
E 7827.0MM N 2739.0MM U 27569.0MM
950GDZ-06206
E 12164.0MM N 2739.0MM U 27569.0MM
950SDZ-06204
E 3790.0MM N 2814.0MM U 27594.0MM
950SDZ-06205
E 8277.0MM N 2814.0MM U 27594.0MM
950SDZ-06206
E 12514.0MM N 2814.0MM U 27594.0MM
NOTE 6

Testo
950FDZ-04104
E 15556.0MM N 28155.0MM U 27310.0MM
950FDZ-05103
E 15448.0MM N 27985.0MM U 27310.0MM
05

950GDZ-05104
E 2609.0MM N 26680.0MM U 29000.0MM
950GDZ-05105
E 5173.0MM N 26680.0MM U 29000.0MM
950GDZ-05106
E 2609.0MM N 21330.0MM U 29000.0MM
950GDZ-05101
E 5173.0MM N 21330.0MM U 29000.0MM
950GDZ-05102
E 2609.0MM N 16870.0MM U 29000.0MM
950GDZ-05103
E 5173.0MM N 16870.0MM U 29000.0MM

950SDZ-05201
E 10700.0MM N 14000.0MM U 2500.0MM
950SDZ-05202
E 10900.0MM N 14000.0MM U 2500.0MM
950SDZ-05203
E 10500.0MM N 14000.0MM U 2500.0MM
950GDZ-05201
E 11000.0MM N 14000.0MM U 2500.0MM
950GDZ-05202
E 10900.0MM N 14000.0MM U 2500.0MM
950GDZ-05203
E 10800.0MM N 14000.0MM U 2500.0MM
05

950FDZ-05104
E 15440.0MM N 12015.0MM U 25310.0MM
950FDZ-06102
E 15440.0MM N 11995.0MM U 25460.0MM

PLAN ON UPPER DECK
EL+30.310 T.O.S.

PLAN ON LOWER DECK
EL+23.310 T.O.S.

Lower deck outline
Fuel cell package area
16000
℄ Hydrogen storage vessel
℄ Air receiver V-63001
A-63000
NOTE 3
FUEL CELL TRANSFORMER A-80000
STAIRS
LAYDOWN AREA
CRANE X-99001
A-40000
2nd
1st
Q-43004
NOTE 11
V-43001
40000
V-25001A / F
V-25001B / E
V-25001C / D
HYDROGEN STORAGE VESSELS
Transformer
Chiller 2
Chiller 1
Chilled water distribution pumps
NOTE 3
Electrolyser package area
maintenance area
16000

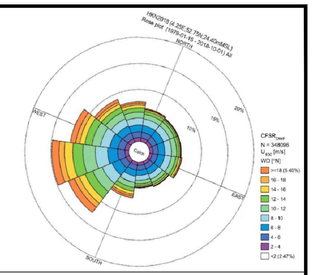
WALK TO WORK PLATFORM
TEMPORARY EMERGENCY BACK-UP GENERATOR
LAYDOWN AREA
1245
YLB-079001
B-400 I&T EQUIPMENT ROOM
B-300 AC UPS
B-200 LV SWITCHROOM 400V
1950
TR-200DE1 AUX. TRANSF.
STAIRS
11290
Bess package area
BESS 02
BESS 01
NOTE 10
NOTE 3
P-50001A
P-50001B
WATER TREATMENT PACKAGE A-50000
NOTE-10
CAISSON PUMP LAYDOWN AREA
℄ Nitrogen receiver V-64001
A-64000
TR-100AD1 TRANSFORMER
TR-200ED1
TR-100AD1
℄ TR-100AD1
℄ TR-200ED1
B-100 HV SWITCHROOM 66kV/6.6kV
YLB-079002
℄ TR-200ED1
℄ TR-100AD1
16000

EQUIPMENT LIST

TAG NUMBER	DESCRIPTION
A-20000	ELECTROLYSER
A-63000	INSTRUMENT AIR PACKAGE
A-80000	FUEL CELL
A-85000	BESS
A-50000	WATER TREATMENT PACKAGE
P-50001A/B	SEAWATER LIFT PUMPS
Q-43004	HYDROGEN VENT
A-64000	NITROGEN SYSTEM
V-25001A-F	HYDROGEN STORAGE VESSELS
V-43001	HYDROGEN VENT KO DRUM
YLB-079001/2	LIFE RAFTS
B-100	HV/MV SWITCHROOM 66kV/6.6kV
B-200	LV SWITCHROOM 400V
B-300	AC UPS EQUIPMENT ROOM
B-400	I&T EQUIPMENT ROOM
TR-100AD1	TRANSFORMER MAIN 66kV/6.6kV
TAG NUMBER	DESCRIPTION
TR-200DE1	TRANSFORMER AUX. 6.6kV/0.4kV
TR-200ED1	SOLAR TRANSFORMER PV FARM EQUIPMENT
RR-100AD1-NER	NEUTRAL EARTHING RESISTOR
V-63001	AIR RECEIVER
V-64001	NITROGEN RECEIVER
X-99001	CRANE

SYMBOL	DESCRIPTION		QTY.
	UV-IR FLAME DETECTOR	(FDZ)	22
	POINT SOURCE HYDROGEN DETECTOR	(GDZ)	46
SD	SMOKE DETECTOR	(SDZ)	24
	POINT SOURCE OXYGEN DETECTOR	(GDZ)	3
H	ULTRA SONIC HYDROGEN DETECTOR	(GDZ)	9

PLATFORM NORTH
TRUE NORTH
N
25°



NOTES

1. ALL DIMENSIONS IN mm U.N.O.
2. ALL DETECTORS ELEVATIONS ARE IN mm, WHILE DECK ELEVATIONS ARE IN m.
3. VENDOR TO DEFINE AND SUPPLY ALL FIRE & GAS DETECTORS TO BE USED IN FUEL CELL, ELECTROLYSER AND BESS. TO BE IN COMPLIANCE WITH PROJECT REQUIREMENTS.
4. PERSONNEL EXPECTED TO USE HANDHELD HYDROGEN AND LOW OXYGEN DETECTORS WHEN WORKING IN CONFINED SPACES ENTRY.
5. SMOKE DETECTORS (2oo3) AND POINT HYDROGEN DETECTORS (2oo3) SHALL BE LOCATED AT EACH DOOR ENTRANCE OF I&T EQUIPMENT ROOM, AC UPS, LV SWITCH ROOM AND HV/MV SWITCHROOM CONTAINERS AND START ABANDON.
6. SMOKE DETECTORS (2003) AND POINT SOURCE HYDROGEN DETECTORS (2003) TO BE PROVIDED AROUND HVAC INLET AREAS AND UPON CONFIRMED DETECTION CLOSE DAMPERS TO ROOMS.
7. ULTRASONIC H2 DETECTORS TO BE LOCATED NEAR VALVE ACCESS PLATFORMS FOR H2 STORAGE VESSELS.
8. POINT SOURCE H2 DETECTORS TO BE LOCATED ON VALVE ACCESS PLATFORM FOR H2 STORAGE VESSELS.
9. EXACT LOCATION OF F&G DETECTORS AND DEVICES IS SHOWN IN THE LAYOUT. COORDINATES OF EACH DETECTOR ARE REFERRED TO POINT 1C AND FOR ELEVATION U REFER TO LOWER DECK LEVEL.
10. LOCATION OF THE 6 SENSOR (950GDZ-05101/102/103/104/105/106) AT CEALING ABOVE BESS ROOF, TO AVOID GAS ACCUMULATION AT POCKETS
11. DETECTORS 95OGDZ-02117/02118/02119/02120 ARE LOCATED NEAR XV VALVES AT H2 STORAGE VESSEL MANIFOLDS.
12. COMPLETE TAG IS ALWAYS "950-" (I.E. 950MFA-04203 IS 950-MFA-04203).
13. COORDINATES OF EACH DETECTORS ARE REFERRED TO POINT 1C AND FOR ELEVATION U 0 M IS THE SEA LEVEL.

HOLDS

REFERENCE DOCUMENTS

123A90-DDL-PP-DS-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-PP-DS-70071	PLOT PLAN - BELOW LOWER DECK
123A90-DDL-SAF-RE-30020	FERA REPORT

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
06	11/11/25	SPS	CCA	CGI	AS-BUILT (ASB)
05	30/07/25	ECA	CCA	CGI	ACCEPTED FOR CONSTRUCTION (AFC)
04	24/06/25	ECA	CCA	CGI	ACCEPTED FOR CONSTRUCTION (AFC)
03	07/03/25	ECA	CCA	CGI	ACCEPTED FOR CONSTRUCTION (AFC)
02	23/10/24	ECA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	10/07/24	MMA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	12/02/24	MMA	CCA	DLO	ISSUE FOR APPROVAL (IFA)

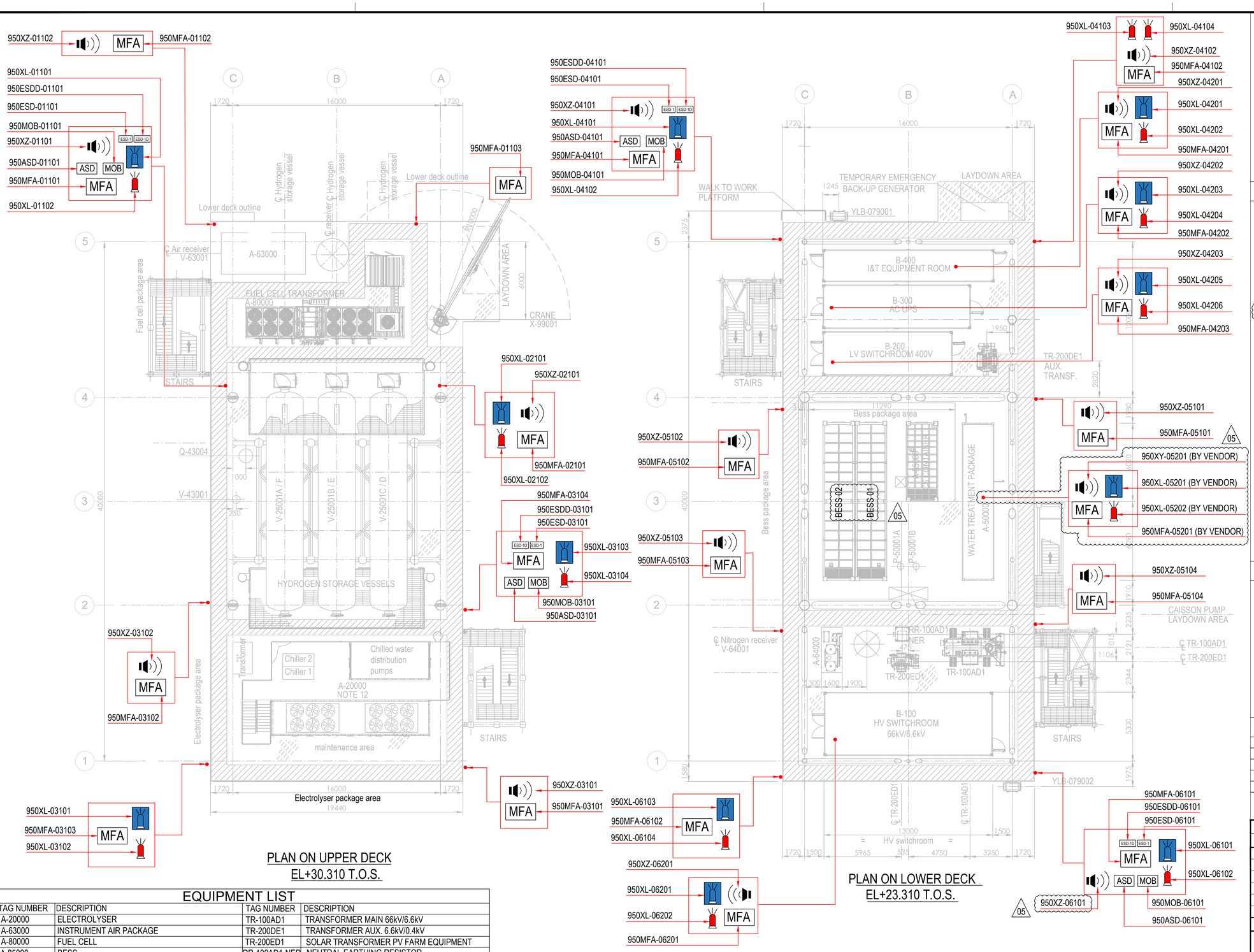
CROSSWIND
ROSETTI MARINO

TITLE :
F & G DETECTORS LAYOUT - LOWER & UPPER DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK		SCALE 1:150	
DRAWN	CHECKED C. CARACCIOLO	APPROVED C. GIUNCHI	DATE 11/11/25
A1	DRAWING NO. 123A90-DDL-SAF-DL-30027	SHEET 001	REV. 06

File Name : 123A90-DDL-SAF-DL-30027 Rev.06

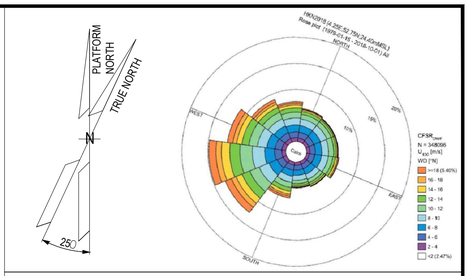
DRAWING NO. 123A90-DDL-PP-DL-30027 REV. 06



EQUIPMENT LIST

TAG NUMBER	DESCRIPTION	TAG NUMBER	DESCRIPTION
A-20000	ELECTROLYSER	TR-100AD1	TRANSFORMER MAIN 66kV/6.6kV
A-63000	INSTRUMENT AIR PACKAGE	TR-200DE1	TRANSFORMER AUX. 6.6kV/0.4kV
A-80000	FUEL CELL	TR-200ED1	SOLAR TRANSFORMER PV FARM EQUIPMENT
A-85000	BESS	RR-100AD1-NER	NEUTRAL EARTHING RESISTOR
A-50000	WATER TREATMENT PACKAGE	V-63001	AIR RECEIVER
P-50001A/B	SEAWATER LIFT PUMPS	V-64001	NITROGEN RECEIVER
Q-43004	HYDROGEN VENT	X-99001	CRANE
A-64000	NITROGEN SYSTEM		
V-25001A-F	HYDROGEN STORAGE VESSELS		
V-43001	HYDROGEN VENT KO DRUM		
YLB-079001/2	LIFE RAFTS		
B-100	HV/MV SWITCHROOM 66kV/6.6kV		
B-200	LV SWITCHROOM 400V		
B-300	AC UPS EQUIPMENT ROOM		
B-400	I&T EQUIPMENT ROOM		

SYMBOL	DESCRIPTION	QTY.	SYMBOL	DESCRIPTION	QTY.
	SOUNDER (XZ)	11		FIRE BEACON (XL) COLOR: RED 05	8
MOB	MAN OVER BOARD (MOB)	4		FLAMMABLE GAS RELEASE BEACON (XL) COLOR: AMBER 05	8
ASD	ABANDON SHUTDOWN (ASD)	4	ESD-1	ESD-1 PUSH BUTTON (ESD)	4
MFA	MANUAL FIRE ALARM (MFA)	16	ESD-1D	ESD-1D PUSH BUTTON (ESDD)	4



NOTES

1. ALL DIMENSIONS IN mm U.N.O
2. ALL ELEVATIONS IN METERS.
3. VENDOR TO DEFINE AND SUPPLY ALL FIRE & GAS DETECTORS TO BE USED IN FUEL CELL, ELECTROLYSER AND BESS. TO BE IN COMPLIANCE WITH PROJECT REQUIREMENTS. THESE WILL BE SHOWN IN THE NEXT REVISON OF THE DOCUMENT.
4. PERSONNEL EXPECTED TO USE HANDHELD HYDROGEN AND LOW OXYGEN DETECTORS WHEN WORKING IN CONFINED SPACES ENTRY.
5. DETAIL LOCATION IS SHOWN IN THE 3D MODEL.
6. COMPLETE TAG IS ALWAYS "950-" (I.E. 950MFA-04203 IS 950-MFA-04203).

05

ELEVATION

1. ALL BUTTONS ARE 1.5M TOP
2. SOUNDERS AND BEACON ARE 2.4/2.5M

HOLDS

REFERENCE DOCUMENTS

123A90-DDL-PP-DS-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-PP-DS-70071	PLOT PLAN - BELOW LOWER DECK
123A90-DDL-SAF-RE-30020	FERA REPORT

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
06	11/11/25	SPS	CCA	CGI	AS-BUILT (ASB)
05	30/07/25	ECA	CCA	CGI	ACCEPTED FOR CONSTRUCTION (AFC)
04	24/06/25	ECA	CCA	CGI	ACCEPTED FOR CONSTRUCTION (AFC)
03	07/04/25	ECA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
02	23/10/24	ECA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	10/07/24	MMA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	12/02/24	MMA	CCA	DLO	ISSUE FOR APPROVAL (IFA)

CROSSWIND

ROSETTI MARINO

TITLE :

F & G DETECTORS LAYOUT - LOWER & UPPER DECK

CONTRACT NO./TITLE	CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE	1:150
DRAWN		CHECKED	C. CARACCIOLO	APPROVED	C. GIUNCHI
				DATE	11/11/25

	DRAWING NO.	SHEET	REV.
A1	123A90-DDL-SAF-DL-30027	002	06

File Name : 123A90-DDL-SAF-DL-30027 Rev.06