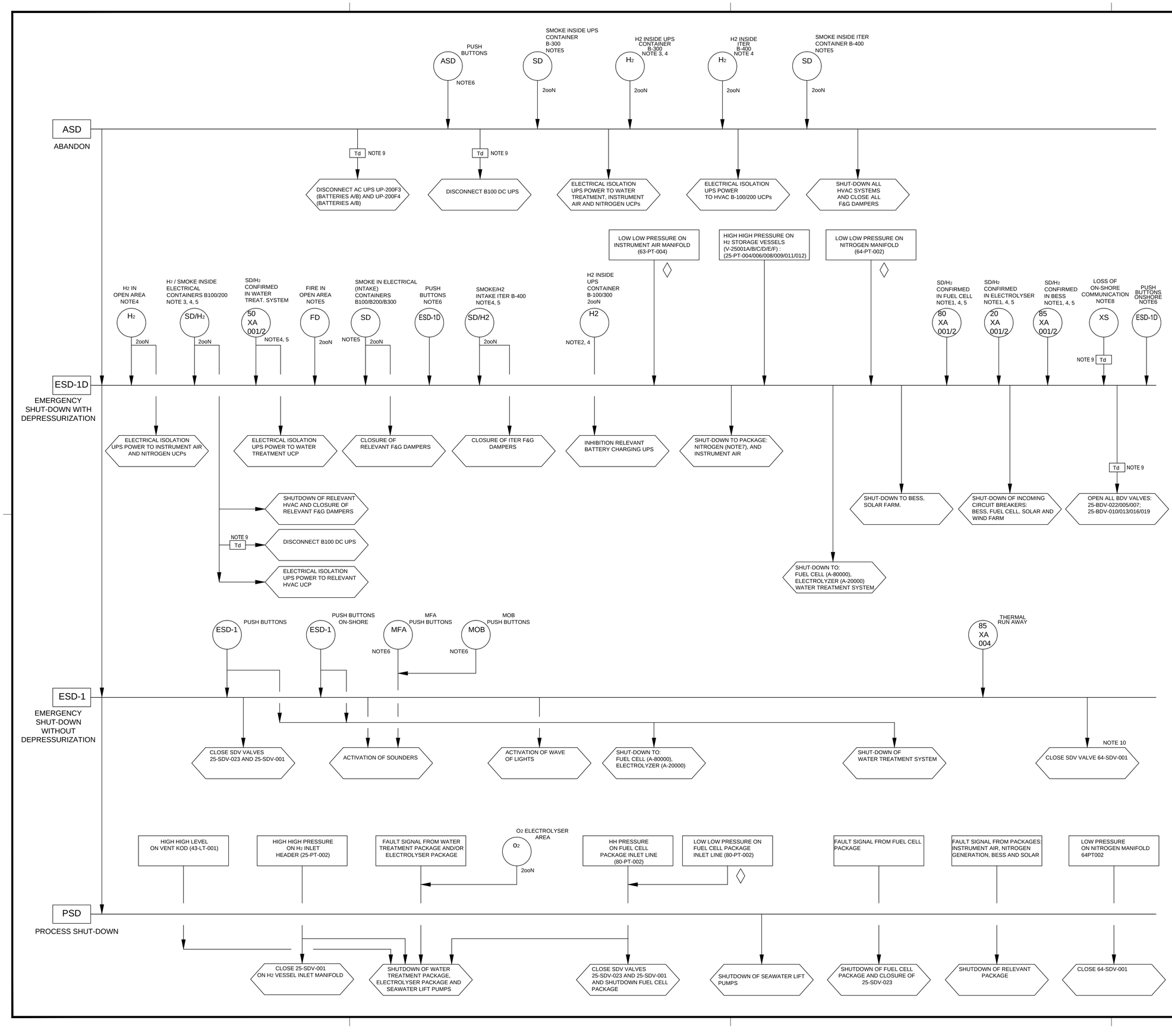


NOTES

1. F&G LOGIC VOTING IS MANAGED BY RELEVANT UCP (BESS, FUEL CELL AND ELECTROLYSER PACKAGES).
2. LOGIC ACTIVATION ONLY IN CASE OF 2ooN H2 CONFIRMED IS CAUSED BY H2 DETECTORS INSIDE UPS CONTAINERS (B-100/300) AND ALL THE OTHERS PLATFORM H2 DETECTORS SHALL NOT BE ALARMED/FAILED.
3. LOGIC ACTIVATION ONLY IN CASE OF 2ooN H2 CONFIRMED IS CAUSED BY H2 DETECTORS INSIDE UPS CONTAINERS (ONLY FOR B-100 OR B-300) AND AT LEAST ONE OF PLATFORM H2 DETECTORS (EXCLUDED INSIDE UPS CONTAINERS B-100/300) IS ALARMED/FAILED.
4. ACTIVATION OF AMBER BEACONS (H2).
5. ACTIVATION OF RED BEACONS (FIRE).
6. ACTIVATION OF BOTH AMBER AND RED BEACONS.
7. SHUTDOWN OF NITROGEN PACKAGE WILL BE PERFORMED ONLY AFTER THE ELECTROLYSER PACKAGE HAS BEEN SAFELY SHUTDOWN (IF IT IS ON LINE).
8. IN CASE OF LOSS OF ON-SHORE COMMUNICATION THE ESD-1D LOGIC WILL BE ACTIVATED DUE TO THE IMPOSSIBILITY OF REMOTE CONTROL DEPRESSURIZATION.
9. TIME DELAY VALUES CAN BE FOUND ON DOC. N. 123A90-DDL-IN-CE-40000, "Process Safety Cause and Effect Matrix". 4
10. SHUT-DOWN VALVE 64-SDV-001 WILL NOT BE CLOSE BY ESD-1 PUSH BUTTONS BUT ONLY IN CASCATE FROM ESD1-D .

LEGEND

HOLDS

1. DELETED.
2. DELETED.

LEGEND

◇ = START-UP INHIBIT

ABBREVIATIONS

FC: Fuel Cell (A-80000)
BESS: Battery Energy Storage System
Electrolyser Package (A-200000)

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
05	18/09/25	SPS	LCA	CGI	AS-BUILD (ASB)
04	01/07/25	RZI	LCA	CGI	ACCEPTED FOR CONSTRUCTION (AFC)
03	23/05/25	RZI	CIM	CGI	ACCEPTED FOR CONSTRUCTION (AFC)
02	18/03/25	RZI	CIM	CGI	ACCEPTED FOR CONSTRUCTION (AFC)
01	19/03/24	RZI	CIM	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	10/11/23	RZI	CIM	DLO	ISSUE FOR ACCEPTANCE (IFA)

CROSSWIND

ROSETTI MARINO

TITLE :

BASE LOAD POWER HUB (BLPH)
Process Safety Cause & Effect
Block Diagram

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE N/A
DRAWN SPS	CHECKED LCA	APPROVED CGI	DATE 18/09/25
A1	DRAWING NO. 123A90-DDL-PR-DG-80000	SHEET 001	REV. 05