A-63000 INSTRUMENT AIR PACKAGE

A-64000 NITROGEN GENERATOR

P-50001 A/B SEA WATER LIFT PUMPS

B-50013A/B SEA WATER LIFT PUMP CAISSON

A-50000 WATER TREATMENT PACKAGE

A-20000 ELECTROLYSER PACKAGE

V-25001A/B/C/D/E/F HYDROGEN STORAGE VESSELS

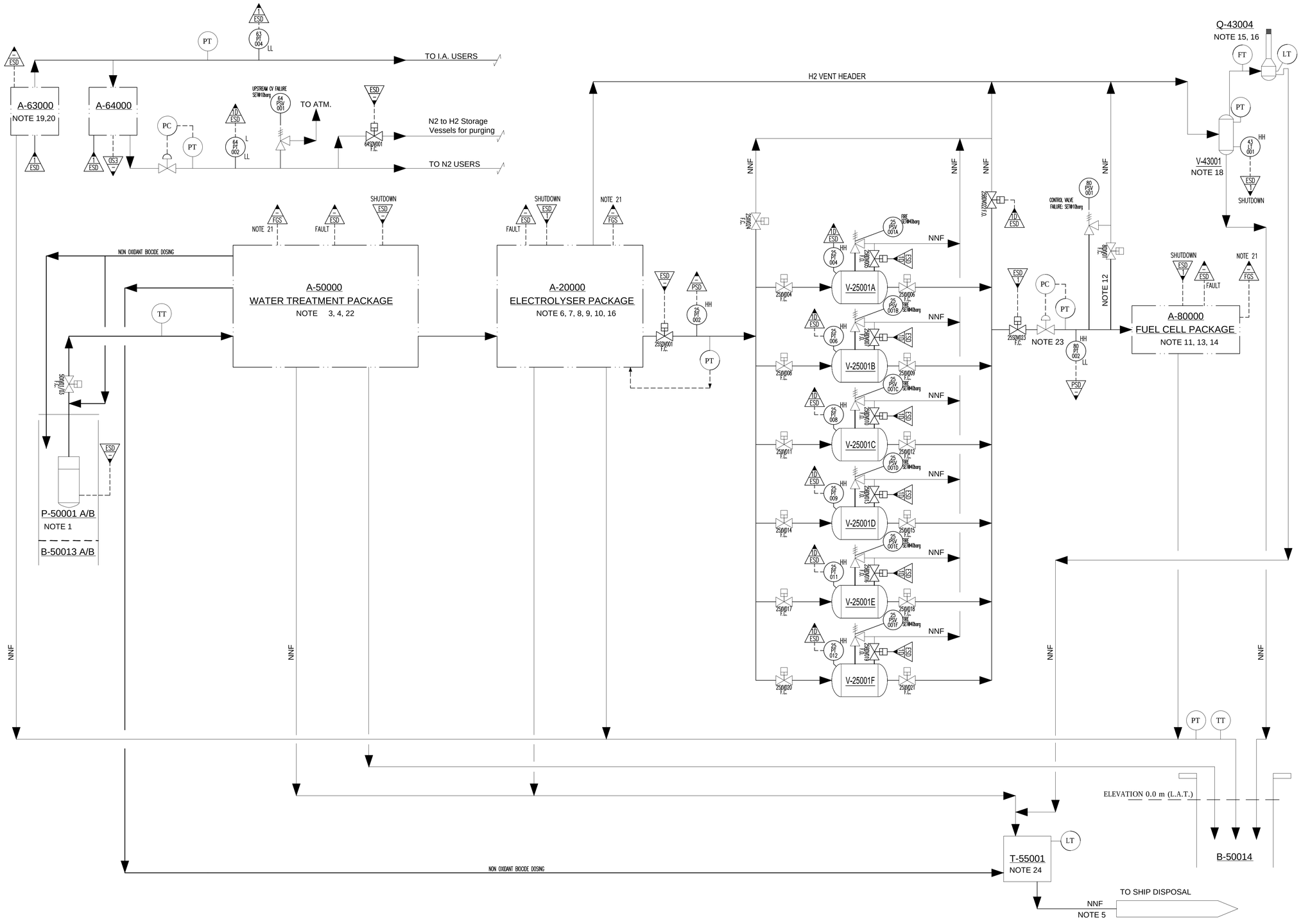
T-55001 WASTE WATER TANK
NOTE 24

B-50014 BRINE DISCHARGE CAISSON

A-80000 FUEL CELL PACKAGE

V-43001 HYDROGEN VENT KO DRUM

Q-43004 HYDROGEN VENT



NOTES

1. SUBMERGED PUMPS WITH SCREEN.
2. DELETED.
3. CLEAN IN PLACE (CIP) WITH CLEANING CHEMICALS.
4. SWRO INCLUDES PUMPS AND MEMBRANES.
5. WASTE WATER DRAINED ONTO SHIP FOR SAFE PROCESSING ON SHORE.
6. 2.5 MW PEM ELECTROLYSER, CONFIGURATION WILL BE VENDOR SPECIFIC.
7. ELECTROLYSER AUXILIARIES ARE INCLUDED IN THE PACKAGE I.E. AC-DC RECTIFIERS, ELECTRO DEIONISATION, COOLING, IA, H2-DRYER.
8. POWER SUPPLIED BY WTG (CW57 AND FLOATING SOLAR ARRAY).
9. HYDROGEN DRIERS ARE VENDOR SPECIFIC
10. OXYGEN VENT LINE WITHIN VENDOR PACKAGE SoW
11. 1.0 MW PEM FUEL CELL, CONFIGURATION WILL BE VENDOR SPECIFIC.
12. LINE REQUIRED FOR PURGING OF PIPE WORK.
13. A PACKAGE INTERNAL RELEASE OF HYDROGEN (BY PRESSURE RELIEF, PURGE ETC.) IS VENTED OUT THE PROCESS AIR EXHAUST IN LEVELS BELOW THE LOWER FLAMMABLE LIMIT. VENTILATION AIR IS BLOWN OUT INTO THE SURROUNDING ENVIRONMENT, NO NEED FOR PHYSICAL CONNECTION
14. THE VENDOR PACKAGE WILL CONTAIN AIR INTAKE AND EXHAUST, SUITABLY SAFEGUARDED AND SEPARATED.
15. DELETED.
16. OXYGEN VENT IS LOCAL TO ELECTROLYSER PACKAGE AND IN VENDOR SCOPE. HYDROGEN AND OXYGEN VENTS SHOULD BE SEGREGATED
17. DELETED
18. HYDROGEN KO DRUM WILL BE WINTERISED AS NECESSARY
19. INSTRUMENT AIR RECEIVER PROVIDES A MINIMUM OF 5 MINUTES HOLD UP VOLUME FOR ESSENTIAL USERS.
20. AIR SUPPLY PRESSURE CONTROLLED WITHIN PACKAGE
21. GAS AND SMOKE CONFIRMED
22. WATER TREATMENT PACKAGE A-50000 INCLUDES THE FOLLOWING INJECTION SYSTEMS:
    - CAUSTIC SODA;
    - ANTISCALE;
    - NON OXIDANT BIOCIDE
23. CONTROL VALVES U/S FUEL CELL PACKAGE (25-PV-055A/B) WORK IN SPLIT RANGE. CONTROL DESCRIPTION CAN BE FOUND ON THE "Process Control, Operation, Start-up and Shutdown Philosophy", DOC.N. "123A90-DDL-PR-RE-80031"
24. WASTE WATER TANK T-55001 WILL BE FILLED WITH 100% MEG TO AVOID FREEZING THE CONTENT BETWEEN SIX MONTHLY MAINTENANCE PERIOD.

HOLDS

1. DELETED
2. DELETED
3. DELETED
4. DELETED

LEGEND

- MAJOR PROCESS LINE
- MINOR PROCESS LINE
- INSTRUMENT SIGNAL
- VENDOR PACKAGE

ESD — Shut Down Identification
– — Shut Down Level
(FOR SHUT DOWN LEVEL MAKE REF. TO 123A90-DDL-PR-DG-80000 "Process Safety C&E Block Diagram")

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
04	18/09/25	SPS	RZI	CGI	AS–BUILT (ASB)
03	15/05/25	CIM	RZI	CGI	ACCEPTED FOR CONSTRUCTION (AFC)
02	10/04/25	CIM	RZI	CGI	ACCEPTED FOR CONSTRUCTION (AFC)
01	29/05/24	CIM	RZI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	22/11/23	CIM	RZI	DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
PROCESS SAFEGUARDING FLOW SCHEME

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE

DRAWN SPS | CHECKED RZI | APPROVED CGI | DATE 18/09/25

A1 | DRAWING NO. 123A90-DDL-PR-DG-80038 | SHEET 001 | REV. 04