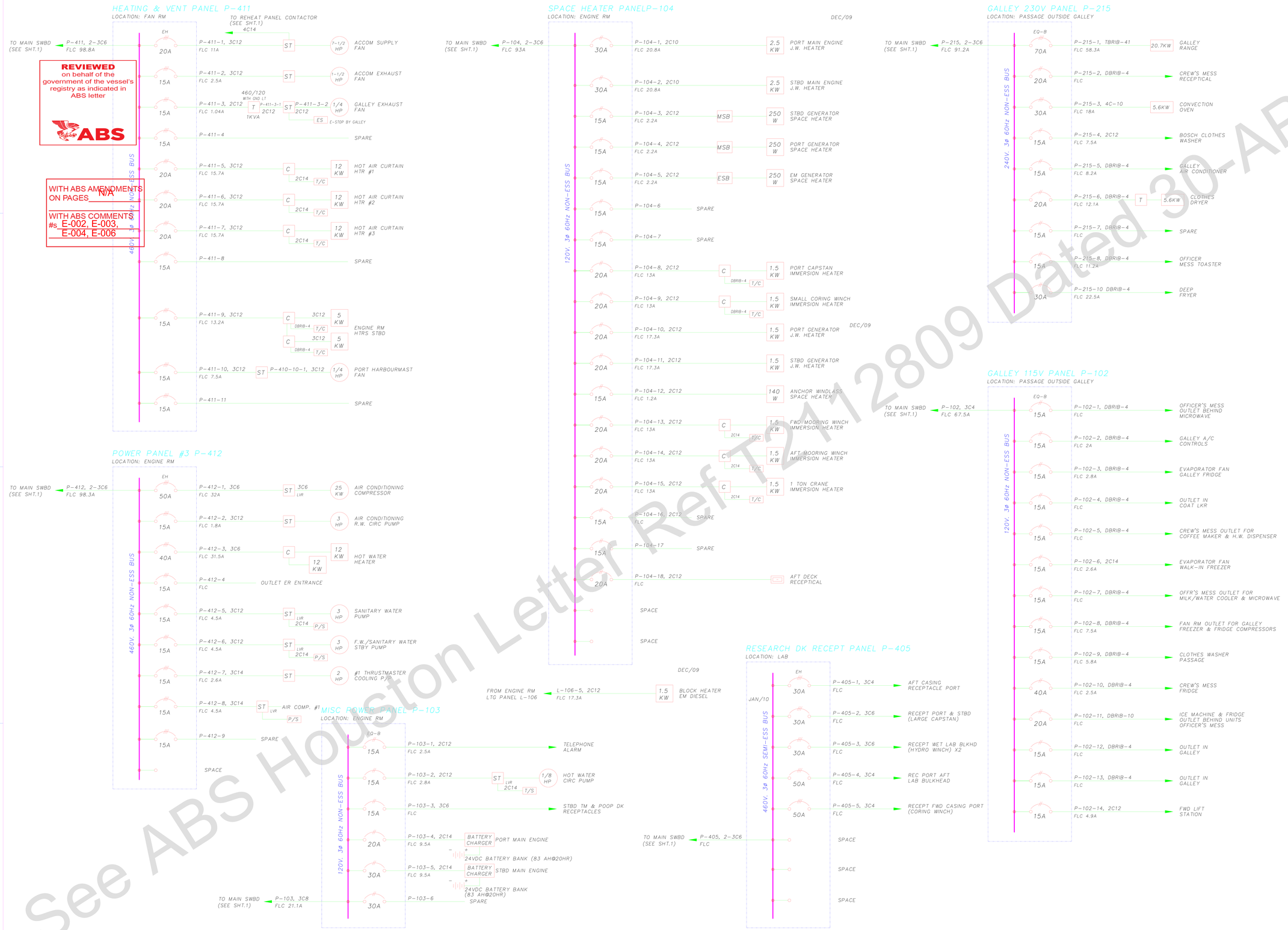

REVIEWED
on behalf of the government of the vessel's registry as indicated in ABS letter

ABS

WITH ABS AMENDMENTS ON PAGES N/A

WITH ABS COMMENTS #s E-002, E-003, E-004, E-006

CABLE LEGEND:

410-1, 2-3C1/0

- CONDUCTOR SIZE - AMERICAN WIRE GAUGE (AWG)
- NUMBER OF CONDUCTORS (1 COND)
- NUMBER OF CABLES (IF APPLICABLE)
- CABLE IDENTIFYING NUMBER (IF APPLICABLE)

TBRIB-83 - 3 CON. BUTYL-RUBBER INSUL. NEOPRENE IMPERVIOUS SHEATH, BRONZE WIRE ARMORED, MARINE CABLE 83000cm

SYMBOL LEGEND:

300A	AIR CIRCUIT BREAKER - DRAWOUT TYPE 3-POLE, 300A TRIP
EH 70A	CIRCUIT BREAKER - MOULDED CASE 3-POLE, EH FRAME, 70A TRIP
ST	SHUNT TRIP
UV	UNDERVOLTAGE TRIP
A	AMMETER
F	FREQUENCY METER
40 KW	MOTOR (HP OR KW AS SHOWN)
5 KW	HEATER (KW RATING AS SHOWN)
ST	MOTOR CONTROLLER - FVNR LOW VOLTAGE PROTECTION
ST LVR	MOTOR CONTROLLER - FVNR LOW VOLTAGE RELEASE PROTECTION
ST AUTO	MOTOR CONTROLLER - REDUCED VOLTAGE, AUTO TRANSFORMER TYPE, LVP
ST REV	MOTOR CONTROLLER - FVR LOW VOLTAGE PROTECTION
ST 2SP	MOTOR CONTROLLER - FVNR 2 SPEED, LVP
C	CONTACTOR PANEL
CP	CONTROL PANEL
DS	DISCONNECT SWITCH
HTR	HEATER
F/S	FLOAT SWITCH
P/S	PRESSURE SWITCH
T/S	TEMP SWITCH
T/C	THERMOSTATIC CONTROL
PB	START/STOP PB STATION (OR AS SHOWN)
ES	EMERGENCY STOP PUSHBUTTON STATION
JB	JUNCTION BOX
T	TRANSFORMER

NOTES:

1. THE TWO MAIN GENERATORS & EM GEN CAN BE PARALLELED WITH EACH OTHER & TEMPORARILLY WITH THE SHORE SUPPLY (30 SE. MAX.)
2. EM GEN MAY AUTOMATICALLY START UP ON FAILURE OF MAIN GENERATORS OR SHORE SUPPLY.
3. ALL GEN BREAKERS ARE INTERLOCKED TO TRIP OUT AFTER A TIME DELAY (30 SE. MAX.) IF THE SHORE BREAKER TAKES ON THE SHIP'S LOAD.
4. THE SHORE BREAKER IS INTERLOCKED WITH THE GENERATORS TO TRIP OUT AFTER A TIME DELAY (30 SEC. MAX.) IF ANY OF THE SHIP'S GENERATORS TAKES BACK THE LOAD.
5. WITH "AUTO START" OF EM GEN, TIE BKR TB-1 BETWEEN THE SEMI-ESS & ESS BUS IS TRIPPED BEFORE THE EM GEN BKR CLOSES. TIE BKR TB-1 CAN BE RCLOSED FOR FEEDBACK. EM GEN BKR IS DELAYED ON CLOSING TO ALLOW EM GEN TO REACH PROPER SPEED. TB-1 IS INTERLOCKED TO TRIP OPEN IF DURING FEEDBACK, THE SUB FIRE/BILGE PUMP STARTS OR FEEDBACK CURRENT EXCEEDS 100AMPS.

REV	DESCRIPTION	DATE	BY
Q	GENERAL REVISION	09 DEC 20	SK
P	GENERAL REVISION	27 MAY 19	SK
N	GEN BREAKER UPDATE 2018	09 APR 18	DJM
M	REVISED FOR VLE	25 MAR 10	JS
L	REDRAWN	06 JUL 09	JS

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Tel: (905) 685-9293 Fax: (905) 685-9341

CUSTOMER: DEPT. OF FISHERIES & OCEANS

PROJECT: CCGS 'LIMNOS' — PROJECT No: 09-21-0624

DRAWN: J.S. — CHECKED: — APPR.:

TITLE: ELECTRICAL POWER SINGLE LINE DIAGRAM MAIN DISTRIBUTION

DATE	SCALE	DWG No	SHT.	OF	REV
APR 2018	1:1	09-0624-01	2	3	Q

FILENAME: 09-0624-01S2

See ABS Houston Letter Ref T2112809 Dated 30-APR-2021