This drawing is the property of Canadian Shipbuilding & Engineering Ltd. with whom its further use must be specially arranged.

REFERENCES

1. ELECTRICAL PLANT SCHEMATIC WIRING DIA. #766401
2. REFPLUS WIRING DIAGRAM #WD10025

GENERAL NOTES

* EXISTING EQUIPMENT

TYPICAL COMPRESSOR STARTER SCHEMATIC DIAGRAM

440V/3PH/60HZ ESS MCC L1 L2 L3 — 100/30A — IC1/IC2/IC3 O/L'S — MTR T1 T2 T3 — F1 F2 — 600/240V H1 H2 X1 X2 — K3 K5 K1 K2

HEAD COOLING FAN (HCF)

HEATERS: CRANKCASE (CH) — RECEIVER (OPTIONAL) (RH) — OIL SEPARATOR (OPTIONAL) (OSH)

DFS — HP — LP — SOLENOID VALVE (D) — (C) — (CA) — (CB) — RT — SV

FOR COOLING PUMPS (CA)

HP – HIGH PRESSURE CONTROL
LP – LOW PRESSURE CONTROL
RT – ROOM THERMOSTAT
SV – SOLENOID VALVE

ESS MCC

480/208–120V 3ø, 60HZ 15KVA TRANSF — 29–P–2–1, 3C8

100/20A — UNIT #41 — 29–P–2, 3C12

100/30A * — 41–P–2, 3C12

100/30A * — UNIT #42 — 42–P–2, 3C12

460V, 3ø 60HZ BUS

UNIT #43 STARTER HOA — 43–P–2, 3C14 — 43–P–2–ITK, 2C14 — 43–P–2–1, 2C14

UNIT #44 STARTER HOA — 44–P–2, 3C14 — 44–P–2–ITK, 2C14 — 44–P–2–1, 2C14

41–P–2–1, 2C14 — 42–P–2–1, 2C14

STARTER

STARTER — L1 L2 L3 — T1 T2 T3 — 240/120 H1 H2 X1 X2 — P H — K1 K2 — CA — 10 HP — DOMESTIC REFR. COMPRESSOR WKG

STARTER — 10 HP — DOMESTIC REFR. COMPRESSOR STBY

3/4 HP — DOMESTIC REFR. S.W. PUMP WKG

AUTO STOP — PUMP CONTROL STATION #1

3/4 HP — DOMESTIC REFR. S.W. PUMP STBY

AUTO STOP — PUMP CONTROL STATION #2

ECR CONSOLE MIMIC S–INTOC REV. A

D1N
IN 4 PWR ON — REFRIGERATION MAIN PLANT
IN 4 COMMON
IN 5 PWR ON — REFRIGERATION STBY PLANT
IN 5 COMMON
120VAC INDICATORS

EVAPORATOR CONTROL PANEL (24"x24"x8")

208/3/60 L1 L2 L3 — 40A FUSIBLE DISCONNECT SW

5A 5A 30A CHA 30A CHB 30A CHC 15A CMA 15A CMB 15A CMC

CH CHA — CH1 7,8,9 — CH2 10,11,12 — CH3 13,14,15

CM CMA — CM1 1 — CM2 2 — CM3 3

HTR1 16 — HTR2 17 — K1 1 — K2 2

MR

DEFROST TIMER MODEL 8145–20 — RESET COIL — X — IM — N

COLD RM ON–OFF — CMA1 — CMA2 — CMA3 — CM — C4 — CN

CX 4 — C4 5 — CN 6 — CN 18 — CS 19 — CS 1 — CM MR CT 2 — CMA 3 — CMB 4

REF–C–E, 2OC14

VMA VMB VMC — VM — VM1 1 — VM2 2 — VM3 3 — VN 4 — VS 5 — VS 1 — VM MR VT 2 — VMC 3 — VMB 4

VEGETABLE RM ON–OFF — VMC1

REF–V–E, 6C14 — REF–V–T, 6C14

DMA DMB DMC — DM — DM1 1 — DM2 2 — DM3 3 — DN 4 — DS 5 — DS 1 — DM MR DT 2 — DMC 3 — DMA 4

COOL & DAIRY RM ON–OFF — DMC1

REF–D–E, 6C14 — REF–D–T, 6C14

COLD RM EVAPORATOR MODEL EKE 3400–5

DRAIN PIPE HEATER SELF–REGULATING 240V, 90W WITH 1/2" FOAM INSULATION ON DRAIN PIPE

16 TIE POINTS 17 — 7,8,9 H1 — 10,11,12 H2 — 13,14,15 H3 — DEFROST HEATERS 7.7KW @ 208V

1 M1 — 2 M2 — 3 M3 — FANS 3 X 1/4 HP 208V/3PH/60HZ

4 X — DEFROST THERMOSTAT — 5 4 — 6 N — 18 1 — 19 2 TIE POINTS — REF–C–S, 2C14

COLD RM LIQUID SOLENOID MODEL E6S130

SENSOR IN COLD RM

COLD RM THERMOSTAT MODEL ETC–141000–000 — 1 2 3 4 — 208V POWER

COOL & DAIRY RM EVAPORATOR MODEL EKE 3400–5

1 M1 — 2 M2 — 3 M3 — FANS 3 X 1/4 HP 208V/3PH/60HZ — 4 1 — 5 2 TIE POINTS — REF–D–S, 2C14

COOL & DAIRY RM LIQUID SOLENOID MODEL E6S130

SENSOR IN COOL & DAIRY RM

COOL & DAIRY RM THERMOSTAT MODEL ETC–141000–000 — 1 2 3 4 — 208V POWER

VEGETABLE RM EVAPORATOR MODEL EKE 1700–5

1 M1 — 2 M2 — 3 M3 — FANS 2 X 1/4 HP 208V/3PH/60HZ — 4 1 — 5 2 TIE POINTS — REF–V–S, 2C14

VEGETABLE RM LIQUID SOLENOID MODEL E6S130

SENSOR IN VEGETABLE RM

VEGETABLE RM THERMOSTAT MODEL ETC–141000–000 — 1 2 3 4 — 208V POWER

no.	REVISION	by	date
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B	REVISED COMPRESSOR STARTERS	JS	OCT 20/03
A	GENERAL REVISION	JS	OCT 15/03

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CANAL MARINE
A DIVISION OF THE CSE GROUP
ST. CATHARINES, ONT., CANADA

Canadian Coast Guard — Garde côtière canadienne

PROJECT
C.C.G.S. GRIFFON – VLE

TITLE DOMESTIC REFRIGERATION BLOCK & CONNECTION DIAGRAM

APPR.	SENT	APPR.	SENT	APPR.
OWNER				
LLOYDS				
A.B.S.				
S.S.B.				

DRAWN by J. SCODELLARO
CHECKED by
DATE: MAY 2003
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