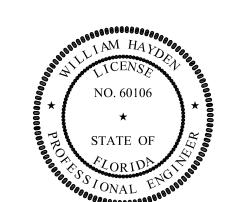
S Y M	BDLSLIST
<u> </u>	
	PANEL FEEDERS
	CIRCUIT FEEDERS
REDI-LED 19W	
	CUBE LIGHT 13W
	METALLIC LED VP 17W
	RED/WHITE LED 13W
	ARIES FLOOD 16W
ECOMOD S 580M	
	DECK LIGHT LED 5W
© • • • • • • • • • • • • • • • • • • •	BUNK AND MIRROR LIGHT 12W
	RECEPTACLE GFCI 108VAC 20A
	RECEPTACLE 108VAC 20A
	CENTRIFUGAL PUMP
	GEAR PUMP
	RECEPTACLE 208VAC 20A
	LIGHT SWITCH
	MOTOR CONTROLER HOA
	MOTOR CONTROLER R/S
E2 D2	DISCONNECT
200A	SHOREPOWER INLET
	SEARCHLIGHT
	FLIR CAMERA
	RECEPTACLE, RANGE 50A
E	BULKHEAD MOUNT EMERGENCY LIGHTS

CYCTEM	NPFRATINN	INTENT

2121FM HEKATIUN INTENT TO PROVIDE 120/208 3 PHASE AC POWER FROM EITHER OF THE TWO 99KW ONBOARD GENERATORS OR THROUGH A DEDICATED SHORE-POWER CONNECTION THROUGH THE SWITCHBOARD TO THE INDIVIDUAL SUB PANELS IN ORDER TO PROVIDE BASIC VESSEL FUNCTIONALITY WHILE PERFORMING ITS MISSION AS A TOWING VESSEL.

				MATERIA	AL SCHEDULE				
SYSTEM	SIZE	WIRE	PANEL ENCLOSURES	JUCTION BOXES	CIRCUIT DISCONNECTS	MOTOR CONTROLERS	CIRCUIT BREAKERS	FUSES	CABLE HANGERS
PANEL FEEDER WIRING CIRCUIT FEEDER WIRING	ALL	ALL ELECTRIC WIRE SHALL BE UL LISTED SHIPBOARD CABLE, SIZED AT 80 PERCENT MANUFATURERS LISTED AMPACITY AT 75 DEG C	ALL PANELS SHALL HAVE SOLID COPPER				EACH CIRCUIT BREAKER MUST MEET UL 489 "MOLDED CASE CIRCUIT BREAKERS AND CIRCUIT BREAKER ENCLOSURES" OR OTHER STANDARD SPECIFIED BY THE COMMANDANT AND BE OF THE MANUALLY RESET TYPE DESIGNED FOR: (1) INVERSE TIME DELAY (2) INSTANTANEOUS SHORT CIRCUIT PROTECTION AND: (3) SWITCHING DUTY IF THE BREAKER IS USED AS A SWITCH. EACH CIRCUIT BREAKER MUST INDICATE WHETHER IT IS IN THE OPEN OR CLOSED POSITION.	FUSES SHALL BE OF THE UL CARTRIDGE TYPE ONLY	CABLE HANGERS FOR OVERHEAD AND VERTICAL RUNS MUST BE INSTALLED WITH METAL SUPPORTS AND RETENTION DEVICES AT LEAST EVERY 48 INCHES.

			17-1372-5005.1 Electrical and Lighti	ng B.O.M.	
ITEM	QTY	SYMBOL	DESCRIPTION	MATERIAL SPEC	REMARKS
1	26	REDI-LED 19W	PHOENIX REDI LIGHT 42" LED 19W	WWW.ENW.ESFE	TREIVIN HITTO
2	6		PHOENIX CUBE LIGHT WHITE 13W		
3	11		PHOENIX METALLIC LED VP 17W	UL1598A, UL 844	
4	5		RED/WHITE BI COLOR, SWITCHABLE, DIMMABLE, L.E.D. DOME LIGHT 13W	,	
5	5		PHEONIX ARIES FLOOD LIGHT 16W		
6	6		PHEONIX BERTH AND MIRROR LIGHT 12W		
7	3	ECOMOD 2 280V	PHEONIX ECMOD 2 280 W LED FLOOD LIGHT		
8	10		DECK LIGHT LED DIMMABLE 5W		
9	8		RECEPTACLE GFCI 108VAC 20A		
10	23	99	RECEPTACLE 108VAC 3 PRONG 20A		
11	1		RECEPTACLE 208VAC 20A		
12	19		LIGHT SWITCH		
13	8		MOTOR CONTROLER H.O.A.		
14	6		DISCONNECT		
15	1	200A	SHORE POWER INLET 4 WIRE 200A MALE		
16	1		FLIR CAMERA M500 ULTRA HIGH PERFORMANCE MULTI SENSOR CAMERA SYSTEM		
17	1		HVAC MINI SPLIT REVERSE CYCLE UNIT AIR COOLED PURY-72TLMU-A		
18	1		HVAC MINI SPLIT REVERSE CYCLE AIR HANDLER PKFY-P06NBMU-E2R1 (PILOT HOUSE)		
19	1		HVAC MINI SPLIT REVERSE CYCLE AIR HANDLER PKFY-P12NHMU-E2 (PASSEGEWAY)		
20	2		HVAC MINI SPLIT REVERSE CYCLE AIR HANDLER PKFY-P06NBMU-E2R1 (CAPTAIN & CREW QTRS)		
21	3		HVAC MINI SPLIT REVERSE CYCLE AIR HANDLER PEFY-P12NMAU-E3 (SHOWER & HEADS)		
22	1		HVAC MINI SPLIT REVERSE CYCLE AIR HANDLER PKFY-P18NHMU-E2 (GALLEY)		
23	1	H	POTABLE WATER PRESSURE PUMP 1.5HP, 115 OR 208 VAC, 60 HZ, 1PH, 50 DEGREE CELCIUS		
24	1	H	SANITARY WATER PRESSURE PUMP 1.5HP, 115 OR 208 VAC, 60HZ, 1PH, 50 DEGREE CELCIUS		
25	1	H	BILGE PUMP 5HP 208 VAC 60 HZ 3 PH 50 DEGREE CELCIUS		
26	1	H	FIRE PUMP 20HP, 208 VAC, 60 HZ, 3PH, 50 DEGREE CELCIUS		
27	1	H	SEWAGE PUMP 2HP, 208 VAC, 60HZ, 3PH, 50 DEGREE CELCIUS		
28	1	- (8) -	FUEL TRANSFER PUMP 1HP 115 OR 208 VAC, 60 HZ, 1 PH, 50 DEGREE CELCIUS		
30	2	e e	SEARCH LIGHT CARLISLE AND FITCH 15" DIA, 3 MILLION CANDLE POWER, 1000W		
31	5	E	LAMP, BULKHEAD, LED, RELAY RECHARGEABLE LANTERN NSN 6230-01-580-6268	MIL-DTL-16377/53 JAY MOULDING #101.2L(W)	EMERGENCY LIGHTS
32					



This document discloses matter in which DeJong & Lebet, Incorporated has proprietary rights. Neither receipt nor possession thereof confers or transfers any right to reproduce, disclose or use in any manner this document in whole or in part or any information contained therein, except by written permission, or written agreement with De—Jong & Lebet, Incorporated.
In the event of a purchase of this document the purchaser is authorized to construct no more than one device in accord herewith, unless otherwise agreed to in writing by DeJong & Lebet, Incorporated.
© 2018 by DeJong & Lebet, Inc.
DeJong & Lebet, Inc.
D Naval Architects Marine Engineers Consultants
1734 Emerson Street Surveyors Phone: (904) 399-3673 Jacksonville, Florida 32207 Fax: (904) 399-1522 www.dejongandlebet.com
Title: 70.5'x30'x11' NCDOT TOWBOAT
Title: 70.5'x30'x11' NCDOT TOWBOAT POWERDECK WIRING

17-1372-331 Sht. 1 of 10 Drawn By: CHRISTOPHER DUNCAN Date: JULY 25, 2018
 Checked By:
 Date:

 App'd By:
 Scale:

ANSI-D (24"x36")

