

Design Basis Equipment List

SWBS	Equipment <i>Description, Type</i>	Quantity	Manufacturer or Material	Model	Rating		Weight <i>lbs</i>	Remarks	Vendor Contact Information
					<i>Value</i>	<i>Unit</i>			
245	Azimuth Thrusters	4	Schottel	Combi Drive SCD 150 Twin	250 kW	HP/RPM	8820	With integrated electric permanent magnet motor and control system	Erik Huber Area Sales Manager SCHOTTEL, Inc. 1741 Denley Road Houma, LA 70363 1 (985) 346-8302 ehuber@schottel.com
252	Propulsion Control System		Schottel					Provided with thrusters	
256	Cooling Water (Sea Water) Piping		Cu-Ni 90-10						
256	Cooling Water (Fresh Water) Piping		316 SS Sch 10s						
526	Cooling Water (Fresh Water) Pipe Fittings		Victaulic	Vic-Press, 316L					
256	Engine Room Sea Strainer	2	Miller-Leaman	6" Duplex	560 gpm		400lbs	Cuni body with cuni baskets	
256	Auxiliary Sea Water Pump	2	Flomax	FM8 2x2 HF	96 gpm			Bronze body and impeller	MP Pumps
256	Automatic Balancing Valves		Hays	Mesureflo				Bronze body Seawater automatic balancing valve	
256	FW Cooling Pump	2	Ampco	ZC2	50 gpm		159	316 SS casing, cover and impeller.	AMPCO Pumps
256	FW Cooling Heat Exchanger	2	Alfa Laval	TL3-PFG	36 kW			Titanium plates, gasketed	
256	FW Air Separator	1	Bell and Gosset	EAS 2 or equal	70 gpm				Enhanced air separator with automatic vent
256	FW Expansion Tank	1	Amtrol or equal						
259	Exhaust System Piping		Steel						
259	Main Engine Silencer	2	Harco	2458VRSA10			401	End-In End-Out	HARCO Manufacturing Co. 1000 Industrial Parkway Newberg OR 97132 (503) 537-0600
259	Emergency Generator Silencer	1	Harco	1236VRS4SI-SO			102	Side-In Side-Out	HARCO Manufacturing Co. 1000 Industrial Parkway Newberg OR 97132 (503) 537-0600
259	Emergency Generator Spark Arrestor	1	Harco	5AA	705 CFM		10.5	316 SS	HARCO Manufacturing Co. 1000 Industrial Parkway Newberg OR 97132 (503) 537-0600
259	Exhaust Expansion Joints		DME	Multi-Ply T-321SS Bellows				Size and quantity as required	DME INC 14001 Marquardt Avenue Santa Fe Springs, CA90670 (888) 436-3462
259	Exhaust Piping Gaskets		Fexitallic	Style CG				SS Spiral wound metallic with flexible graphite filler	
261	Fuel Oil Piping		Steel Pipe						
261	Fuel Oil Transfer Pump	1	Blackmer	210A	10/115 Gal/Rev			PA Style	
261	Fuel Oil Filter - Propulsion Engines	3	Racor	751000 MAXM	10 Micron			ASTM F1201	
261	Fuel Oil Filters - Emergency Generator	1	Racor	1000 MAM	10 Micron			ASTM F1201	
261	Fuel Oil System Hoses		Parker Hannifin	Type 221FR					

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302	Propulsion Electric Motor VFD's	4	Electronic Power Design, Inc.	18025 Diesel Electric Ferry - Liquid cooled VFD drives, Quote 12301 Rev B				Featuring Danfoss/Vacon NX Drive, EPD ECO 6 pulse active filter	Felix Gonzalez Sales Engineer Electronic Power Design, Inc. 15200 North Fwy
310	Propulsion Generator	3	Cat	C18	565	eKW			Steven Smith Marine Sales Account Manager Gregory Poole Equipment Company 636 Harbor Wanchese, NC 27981 252-473-1501 EXT 5502 steve.smith@gregpoole.com
310	Emergency Generator	1	Caterpillar	C4.4 ACERT	65	eKW	3389	Radiator Cooled, 208V/3Ph/60Hz, 0.8PF.	Steven Smith Marine Sales Account Manager Gregory Poole Equipment Company 636 Harbor Wanchese, NC 27981 252-473-1501 EXT 5502 steve.smith@gregpoole.com
320	Main Propulsion Switchboard	1	Electronic Power Design, Inc.	18025 Diesel Electric Ferry - Liquid cooled VFD drives, Quote 12301 Rev B	600 1500	Volts Amps		Including Siemens circuit breakers, Woodward EasyGen 3500, Basler DESC-100 voltage regulator, Woodward 2301E digital governor, strip heaters	Felix Gonzalez Sales Engineer Electronic Power Design, Inc. 15200 North Fwy Houston, TX 77090 832-380-2132
320	Power Management System	1	Electronic Power Design, Inc.	18025 Diesel Electric Ferry - Liquid cooled VFD drives, Quote 12301 Rev B				Including Siemens SIMATIC ET 200SP CPU PLC, ET 200 SP Remote I/O Signal Processor, Six 16 channel input modules, Four 16 channel digital output modules, One scalance Managed FO/IE network switch	Felix Gonzalez Sales Engineer Electronic Power Design, Inc. 15200 North Fwy Houston, TX 77090 832-380-2132
320	Power system and drive VFD Control panel	2	Electronic Power Design, Inc.	18025 Diesel Electric Ferry - Liquid cooled VFD drives, Quote 12301 Rev B				For Pilot House	Felix Gonzalez Sales Engineer Electronic Power Design, Inc. 15200 North Fwy Houston, TX 77090 832-380-2132
320	Power system and drive VFD Control panel	1	Electronic Power Design, Inc.	18025 Diesel Electric Ferry - Liquid cooled VFD drives, Quote 12301 Rev B				For EOS	Felix Gonzalez Sales Engineer Electronic Power Design, Inc. 15200 North Fwy Houston, TX 77090 832-380-2132
320	Ship Service Switchboard	1	IEM Power Systems Jacksonville, FL		208/120	V		EPD Inc. would also like the opportunity to propose on the ship service and emergency switchboards	Ralph Cahill Lead Commercial Engineer, Marine Division ralph.cahill@iemfg.com (904) 365-4435
320	Power Feed Multifunction Meter	2	SATEC	PM130EH Plus Power Meter			1	Included in ship service switchboard and emergency switchboard	

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320	Emergency Switchboard	1	IEM Power Systems Jacksonville, FL					EPD Inc. would also like the opportunity to propose on the ship service and emergency switchboards	Ralph Cahill Lead Commercial Engineer, Marine Division ralph.cahill@iemfg.com (904) 365-4435
321	Distribution Panels and Load centers		Squared D	NQ-type					
321	Ship Service Transformers	2	EPD Supply	18025 Diesel Electric Ferry - Liquid cooled VFD drives, Quote 12301 Rev B	150	kVA	3200		
322	Shore Power Receptacle	2			200/208V	Y A		200A/208V Y. Receptacles to match fleet standard	
322	120 VAC USB receptacles		Hubbell	USB 15X2W					
325	Circuit Breakers		Square D	I-Line or QO					
327	Cabling		TriCab	type BV					
327	Cabling - VFD type		TriCab	type DF					
332	Overhead Down Lighting		Pauluhn	DLL-14	14	W		LED	
332	Machinery Space Lighting		Phoenix	ReadiLED				2 ft and 4 ft (19W, 38W)	
332	Exterior Lighting		Phoenix	Cube	13	W	2 lb		
332	Floodlights	4	Phoenix	EcoMod 2	150	W	23 lb		
332	Life raft Launching Lights	3	Phoenix	SturdiLED	37	W	9.5 lb		
332	Search Lights	4	Carlisle and Finch	1000W Xenon	1000	W		Remote electric control	
340	Storage Batteries		NorthStar	Red					
340	Engine Starting Batteries		NorthStar	Transportation AGM					
340	Battery Chargers		Newmar	PT					
420	Barometer	1	Weems and Plath	Bluewater Item No. 150700					
420	Thermometer	1							
420	Clinometer	4	Moeller	456					
420	Clock	1	Weems and Plath	Bluewater Item No. 150500					
421	Whistle (Ship's Horn)	2	Kahlenberg	D-2				with combination manual/solenoid valve	Kahlenberg 1700 12th Street, P.O. Box 358 Two Rivers, WI 54241 (920) 793-4507
421	Whistle Controller	2	Kahlenberg	M-512				provided with whistle	
420	Fog Bell	1	Perko	12", Fig. 0150					
420	Bell Coating		Nyalic	Clear					
422	Navigation Lights		DHR	LED					
422	Navigation Light Control Panel	1	PMC						Prime Mover Controls 3600 Gilmore Way Burnaby, B.C., Canada V5G 4R8 (604) 433-4644
426	Integrated Radar/GPS/Chart Plotter		Furuno	NavNet TZTouch2					
	Radar unit	2	Furuno	DRS12A					John Bozzelle

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	4' Open Array Antenna	2	Furuno	XN12A/4					Senior Account Manager Beier Integrated Systems (504) 341-0123 ext 5104
	Multi-function display	4	Furuno	NavNet TZTL15F					
	GPS Receiver	1	Furuno	GP330B					
	Class A AIS Transceiver	1	Furuno	FA-170					
	Depth Sounder							Included in NavNet TZTouch2	
	Depth Transducer	2	Furuno	DST-800PSF					
	Multi-function display Remote Control	2	Furuno	MCU-0004					
	Weather Station (Anemometer)	1	Furuno	220WX					
426	Night Vision System	2	FLIR	M-625L					
426	Digital Compass	2	KVH	Azimuth 1000R					
433	Integrated Interior Communication System	1	ESS					includes PA/GA, paging, talkback, loudhailer, emergency phone, and alarm annunciation	
433	ADA Visual Messaging System	1	ESS						
436	Integrated Monitoring Alarm and Control System (IMACS)	1	Electronic Power Design, Inc	18025 Diesel Electric Ferry - Liquid cooled VFD drives, Quote 12301 Rev B				One panel in each P/H console, main panel in EOS. Integrated with propulsion control system. Including Siemens SIMATIC S7-1500 PLC, ET 200SP Remote I/O Signal Processor, Digital, analog, and RTD input signal modules, Scalance managed FO/IE network switch.	Felix Gonzalez Sales Engineer Electronic Power Design, Inc. 15200 North Fwy Houston, TX 77090 832-380-2132
436	Tank Level Indication							integrated with IMACS	
	Tank Level Sensors		Gems						
	Sight Gauges		Gems	Suresite					
436	Fire Detection System		Honeywell	Notifier					
439	Closed Circuit Television	1	ESS						
441	VHF Radio System	4	Icom	M506					
505	Reach Rods		Elliott Manufacturing	SafeOperator (Uniflex-Stowe)					
506	Vent Heads		Winteb	WIN2000 type HIAS					
513	Engine Room Mist Eliminators	4	Delta T	15" x 36", 4500 CFM					
513	Engine Room Supply Fire Dampers	4	Delta T	18"x18"					
513	Engine Room Ventilation Fans	4	Delta T	15"	4500/1.7	cfm/in H20			
513	Engine Room Exhaust Fire Damper	1	Delta T	60" x 78"					
513	Engine Room / Switchboard Room Heater	3	Indeeco	Triad	5	kW			
513	Void Mist Eliminators	2	Delta T	12" x 12", 1000 CFM					
513	Void Supply Fan	2	Delta T	12"	1000/1.3	cfm/in H20			
513	Thruster Room Mist Eliminators	2	Delta T	15"x20", 2000 CFM					
513	Thruster Room Supply Fan	2	Delta T	15"	2000/1.4	cfm/in H20			
513	Emergency Generator Room Fire Dampers	2	Delta T	39" x 60"					
513	Switchboard Room Supply Fan	1	Fantech	FG4	50/0.5	CFM/in H20			
513	Switchboard Room Outdoor Air Filter	1			MERV 8				
513	Switchboard Room Fan Coil	2	Flagship Marine	FM48CWFC	48000	BTUH		Steve Brigham Business Development Manager 772-283-1609 www.flagshipmarine.com	
513	Switchboard Room Return Air Filter	2			MERV 8				

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	EOS Fan Coil	1	Flagship Marine	FM36CWFC	36000	BTUH		w/ 2kW Heater	Steve Brigham Business Development Manager 772-283-1609 www.flagshipmarine.com
513	EOS Return Air Filter	1			MERV 8				
513	Machinery Space Chiller	4	Flagship Marine	FM36CW	36000	BTUH		With gauges/manifolds	Steve Brigham Business Development Manager 772-283-1609 www.flagshipmarine.com
513	Machinery Space Chilled Water Pump	2	Ampco	KC2 1.25x1	30/90	gpm/TDH	63	2 HP Motor, SS Casing and	
513	Chilled Water Piping		Copper, Type K						
520	Acoustic anti-fouling system	1	EMCS	Marelco antifouling					
521	Fire Main Piping		Cuni						
521	Fire Main Pump	2	Goulds	3796 MTX 2x2-10	170/243	gpm/TDH		316 SS, 3550 rpm, 25 hp	
521	Fire Main Strainer	2	Eaton	3" Model 53 BTX				Bronze body, SS basket	
521	Fire Main System Gaskets		Garlock	IFG 5500					
526	Deck Drain Piping		Stainless Steel, SCH 10S						
526	Deck Drain Pipe Fittings		Victaulic	Vic-Press, 316L					
526	Deck Drains		Wager	I34 Series					
528	Sanitary Drain Piping		CPVC	George Fischer Seacor				USCG approved for installation in accommodations and control spaces	Jason Strassell W&O Supply jason.strassell@wosupply.com
528	Zero Discharge Pump	2	Flomax	10 - 2x2	105 / 75	gpm / TDH		Self-Priming Centrifugal	
528	Zero Discharge Tank	2	Plastic-Mart	500 RT Waste Tank, CMR1-500RT	500	gal		Rectangular HDPE Tank	Plastic-Mart (866) 310-2556 www.plastic-mart.com
528	Marine Sanitation Device	1	Redfox	RF-750-M				Gravity in/Pump-out configuration with 1 HP Blower, 1/2HP Pump, 208V	Michael S Unger Director Sales & Marketing Red Fox Environmental Services, Inc. Main (337) 856-3709
528	Sanitary Drains Gaskets (CPVC pipe)		EPDM Rubber						
529.1	Bilge Piping		Steel Sch 80						
529.1	Bilge Pumps	2	MP Pumps	Flowmax 10	149 / 40	gpm / TDH		self-priming centrifugal	
529.1	Bilge Strainer	2	Eaton	53 BTX				Bronze body, SS Basket	
529.1	Ballast Piping		90/10 Copper Nickel						
529.1	Ballast Pump	2	Goulds	3196 3x4-8	200 / 20	gpm / TDH		SS Body	
529.1	Ballast Strainer	2	Eaton	53 BTX				Bronze body, SS Basket	
529.1	Remote ballast system valve automation package		W&O Supply/EMI						Jason Strassell / Larry Dulcich
	Ballast Control System	1	W&O Supply/EMI					See specification, Section 529.2	W&O Supply / EMI

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	3" Butterfly Air Actuated Butterfly Valves	10						With Triac Actuator, spring return to fail closed, StoneL control & monitoring kit, SS tubing between actuator and actuator, 30 micron inline filter, SS breather vent, Legris quick exhaust valve	jason.strassell@wosupply.com / Idulcich@emi-marine.com
529.2	Lube Oil and Waste Oil Piping		Steel						
529.2	Waste Oil Transfer Pump		Roper	2AM08	16/30	gpm/psi		2 HP TEFC, 1800 RPM, with internal relief	
529.2	Gaskets		Garlock				3000		
529.2	Waste Oil Strainer	1	Eaton	1 1/2" Model 72					
533	Potable Water Piping		Copper						
533	Potable Water Pressure Tank	1	Amtrol Well-X-Trol	WX-404C	68 / 125	gal / psi		ASME Rated	
533	Hot Water Heater	1	Rheem	EGSP20	20 / 2	gal / kw			
533	Hot Water Expansion Tank	1	Therm-X-Trol	ST-5C		2 gal		ASME Rated	
533	Potable Water Pump	2	Headhunter	Mach5	8 / 50	gpm / psi			
533	Potable Water Strainer	1	Eaton	1 1/2" Model 72					
533	Gaskets		Garlock				3300		
551	Compressed Air Piping		Steel Sch 80						
551	Ship Service Air Compressor	2	Quincy	QT-10	17 / 175	acfm / psi		Belt Drive, 5 hp 208V, 2 stage reciprocating 828 RPM	Rogers Machinery 7800 Fifth Avenue South Seattle, WA 98108 (206) 763-2530
551	Ship Service Air Receiver	2	Quincy		80	gallon		horizontal, supplied with compressor	
551	Ship's Horn - See 421 above								
551	Air Filter	1	Norgren	F73C-4AD-AD0				5-mircon,oil removal (coalescing)	
551	Air Dryer	1	Norgren	W74D-4AD-NMN				1 qt metal bowl, 6000 cubic feet nominal drying capacity	
555	Fixed Fire Extinguishing System		Kidde Novec 1230						
580	Anchor	1	Danforth			400 lb		with 25 ft of 13/16" Grade 2 stud-link chain and 100 ft of braided nylon line with a minimum strength of 50,000 lb	
624	Door Hardware		Trioving						
624	Exterior Doors		Pacific Coast Marine					Stainless steel frame and door,bolt in. Details per dwg 624-2	
624	Joiner Doors		Deansteel					Bolt-in, stainless steel frame and door, Details per dwg 624-2	
624	Watertight doors		Cen-Tex	104-MS				QAWT 6-dog	
625	Passenger and Crew Lounge Windows		Freeman Marine					Bolt-in with stainless steel frames. 25% tint, Low-e glass units with SHGC ≤ 0.45. See dwg 624-1	

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625	Pilothouse Windows		Freeman Marine					Bolt-in with stainless steel frames, clear tempered glass, See dwg 624-1	
625	EOS Windows		Deansteel					A-60 Glass, STC 43 Noise transmission rating	
625	Pilothouse Window Wipers	2	Wynn Marine	Heavy Duty				pantograph	
631	Coatings								
	Primer		PPG	Sigmaweld					
	Keel to Subdivision Draft Line		PPG	Amercoat 235 / Amercoat ABC 3				Epoxy / anti-fouling	
	Hull Above Waterline, Superstructure, Decks		PPG	Amercoat 235 / PSX 700				epoxy / Polysiloxane Finish	
	Interior passenger and crew areas		PPG	Amercoat 5105 / Amercoat 5450				Alkyd primer / alkyd enamel	
	Interior spaces in hold		PPG	Amercoat 235				Multipurpose Epoxy	
	Ballast, waste oil tanks		PPG	Amercoat 240				Universal Epoxy	
	Potable Water Tanks		PPG	Amercoat 133				NSF Approved Epoxy	
633	Anodes		Zinc or Aluminum	MIL-DTL-18001K or MIL-DTL-24779D					
634	Pilothouse, EOS, Crew and Pass. Lounge Flooring		Johnsonite	Roundel				Raised Dot Rubber Tile, Black	
634	Safety Treads		Wooster	Type 182				safety yellow abrasive at nose, remaining black	
635	Thermal Insulation			Rock wool					
635	Structural Fire Protection		Rockwool Manufacturing	Delta Marine Board					
637	Joiner Linings and Ceilings		Marine Interior Systems	Vinyl-covered Aluminum					
637	Toilet space liners, 18 Ga Stainless		Marine Interior Systems						
637	Window boxing, 18 Ga Stainless		Marine Interior Systems						
640	Pilothouse Outfit								
	Pilothouse Console	2	steel					per spec section 640	
	Pilot Seats	2	HO Bostrom	7512-6 Series				Seatpost HBLX Marine Pilot Chair, 6" Adj, Swivel, 36" floor slide. Color: Tan	
	Desk with locking drawers and bookcase	1	Stainless steel						
	Coffee counter	1	Stainless steel						
	Coffee maker	1	TBD						
	4.4 ft3 undercounter refrigerator	1	TBD						
	Office Chair	1	TBD						
	Anti-fatigue mats	2	American Floor Mats						
	Pilothouse window anti-glare screens		Solar Solve	Solasafe					
640	Crew Lounge Outfit								
	Galley Counter and cupboards	1	Stainless steel					Restaurant grade stainless, 16 Ga countertops w/ 4" backsplash and marine edges	
	Galley Sink	1	Stainless steel					double bowl	
	Fixed Table	1						30" x 72"	
	Bench Seat	1						72" long	
	Chairs	3							

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	Microwave	1	TBD						
	Coffee Maker	1	TBD						
	20 ft3 refrigerator	1	TBD						
	Bulletin Board	1	Quartet	2363				aluminum frame	
	Whiteboard	1	Quartet	S533					
	Electronics Enclosure	1	TBD					to suit installed electronics	
	Waste Basket	1	TBD						
640	Crew Head								
	vitreous china toilet, 1.2 gpf	1	American Standard	Mfg No. 3043.102.020					
	bulkhead mounted stainless steel countertop and lav	1	Elkay	ELV1817					
	Mirror	1	Bobrick	B-292 1830					
	Air hand dryer	1	Excel Dryer	ThinAir Hand Dryer					
	Waste Receptacle	1	TBD						
	Soap dispenser	1	Bobrick	#818615					
	Toilet paper (roll) holder	1	OWNER FURNISHED						
	Coat hook	1	TBD						
640	Passenger Lounge								
	Passenger Seats	30	Beurteaux	200 Series Traveler 'B' Fixed				clear anodized aluminum pedestals, clear anodized aluminum armrests	
	Bottled Water machine	1	TBD						
640	Passenger Restrooms								
	ADA Compliant Vitreous China toilet, 1.2 gpf	2	American Standard	Mfg No. 3043.102.020					
	Bulkhead mounted ada compliant stainless steel co	2	Elkay	WCL1923OSDSACC					
	Mirror	2	Bobrick	B-293 2436					
	Air hand dryer	2	Excel Dryer	ThinAir Hand Dryer					
	Waste Receptacle	2	TBD						
	Soap Dispenser	2	Bobrick	#818615					
	Toilet paper (roll) holder	2	TBD					Owner Furnished	
	Coat hook	2	TBD						
	Stainless Steel ADA Grab rails	4	Bobrick	B-6806					
	Baby Changing Station	2	Koala	KB-101-00					
640	Cleaning Gear Locker								
	Floor mounted service sink	1	Elkay	EFS2523C					
	Bulkhead mount service faucet w/ hose bib	1	Elkay	LKB940C					
	stainless shelves	2	Stainless						
	Mop and broom rack	1	Bobrick	B-223 x 24					
	stainless utility hooks	6	TBD						
640	EOS								
	EOS Console	1	steel					per spec section 640	
	Storage Cabinet	1	stainless steel						
	Coat Hooks	2	TBD						
	Waste bin	1	TBD						
	4.4 ft3 refrigerator	1	TBD						

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	anti fatigue mat	1	American Floor Mats						
	electrical mat	1	American Floor Mats					ASTM D-178 / Mil N-15562F	
640	Em. Gen Room electrical mat	1	American Floor Mats					ASTM D-178 / Mil N-15562F	
640	Switchboard Room, electrical mats	3	American Floor Mats					ASTM D-178 / Mil N-15562F	
640	Machinery Space Outfit								
	Workbench	1	TBD						
	Work Vise	1	TBD						
	FO/LO filter drain basin	1	TBD						
	heavy duty storage cabinets	4	TBD						
	eye wash station	1	TBD						
	first aid kit	1	TBD						
	coolant storage cabinet	1	TBD						
680	Medevac Litter	1	Lifesaving System Corp	Medevac II, M/N 404-F				with floatation kit #101 installed and hoisting sling, M/N 193	
680	Rescue Strop	1	Lifesaving System Corp	M/N 214					
680	Automatic Defibrillator	1	Physio-Control Corp.	Lifepak					
681	Rescue Boat	1	Palfinger	RSQ 450 G				USCG Approved with 25 HP outboard	
681	Davit	1	Palfinger						
681	Inflatable Buoyant Apparatus	5	Viking	50 Person, Passenger Vessel					