Generic Cost Estimating Relationships

New Ship Construction

Rates based upon average mid-size U.S. commercial shipyard having mid-2000's production facilities.

(factors available for other size yards, foreign and domestic, and for military contractors)

Confidential & Proprietary Data

All material costs and equipment have been escalated for the year 2020

NOTE: To change material cost estimates to another year, insert that year above



Worksheet Name (Hyperlinked) **New Construction CER Category** Paint Large Areas Coatings - Blast & Paint Large Areas Paint Loose Parts Coatings - Blast & Paint Loose Parts Coatings - Blast & Sweep Coatings Coatings - Blasting, Brush-Off Blast, Sweep & Clean Blast, Sweep & Clean Coatings - Blasting, Coal Slag Blast, Sweep & Clean Coatings - Blasting, Copper Slag Coatings - Blasting, Dry Ice Blast, Sweep & Clean Blast, Sweep & Clean Coatings - Blasting, Garnet Blast, Sweep & Clean Coatings - Blasting, Heavy Duty Coatings - Blasting, Hermatite Blast, Sweep & Clean Coatings - Blasting, High Pressure Water Blast, Sweep & Clean Coatings - Blasting, Nut Shell Blast, Sweep & Clean Blast, Sweep & Clean Coatings - Blasting, Olivine Coatings - Blasting, Silica Sand Blast, Sweep & Clean Coatings - Blasting, Spot Blast, Sweep & Clean Coatings - Blasting, Staurolite Blast, Sweep & Clean Coatings - Blasting, Steel Grit Blast, Sweep & Clean Coatings - Exterior Coatings Coatings Coatings - Exterior Coats Coatings (2) Coatings - Full Coats Coatings (2) Coatings - Grinding Blast, Sweep & Clean Coatings - Hull Markings Coatings Coatings - Interior Coating Coatings Coatings - Interior Coats Coatings (2) Coatings - Machniery Spaces Coatings (2) Coatings - Paint & Primer Selections Paint Coatings - Paint & Cement Coatings Coatings - Paint Supervision Coatings Coatings - Paint Wastage Coatings Coatings - Spot Coats Coatings (2) Coatings - Spot Paint Coatings Coatings - Surface Prep Coatings Coatings - Tanks & Voids Coatings (2) Coatings - Thermal Spray Paint Coatings Coatings - Touchup Paint Coatings Coatings Pipe - Bondstran Pipe Coating Design & Engineering - Classification fees Design & Engineering Design & Engineering - Loft & services Design & Engineering Design & Engineering - Model Tests Design & Engineering Design & Engineering - Photographs Design & Engineering Design & Engineering - Plot & sketch Design & Engineering Design & Engineering - Ship's Navigation Paper Charts Design & Engineering Design & Engineering - Wooden Model Design & Engineering Electric Cable - Heat Tracing Cable Pull Charts Electrci Cable - Pull Earthing Cable Cable Pull Charts Cable Pull Charts Electrci Cable - Pull High Voltage Power Cable Cable Pull Charts Electrci Cable - Pull Instrument Cable Electrci Cable - Pull Low Voltage Power Cable Cable Pull Charts Electrci Cable - Terminating Cable Cable Pull Charts Electric Cable - 2000V Type G-GC Round Power Cable Cable Price Charts Electric Cable - 600V Type TC-ER Standed Cable Cable Price Charts Electric Cable - 600V Type TC-ER Standed Cable w/Ground Wire Cable Price Charts Electric Cable - Banding Cable Work Electric Cable - Cable Sizes Cable Sizes Electric Cable - Connect Cable Work Electric Cable - Connect Large Enclosure Cable Connect Charts Electric Cable - Connect Medium Enclosure Cable Connect Charts Electric Cable - Connect Small Enclosure Cable Connect Charts Electric Cable - Cutting Cable Work Electric Cable - Fume Tight Cable Work Electric Cable - Hook-up Cable Work Electric Cable - ID Tags Cable Work Electric Cable - Install Armoured Single Core, Multi-Wire Cable Cable Connect Charts Electric Cable - Install Cable Install Cable

Electric Cable - Install Unarmoured Multi-Core Core Cable

Electric Cable - Install Unarmoured Single Core, Multi-Wire Cable

Cable Connect Charts

Cable Connect Charts

New Construction CER Category	Worksheet Name (Hyperlinked)
Electric Cable - Multi-Cable Transits (MCT)	Cable Work
Electric Cable - Packing	Cable Work
Electric Cable - Power Cable	Power Cable
Electric Cable - Preparation Work	Cable Work
Electric Cable - Pulling	Cable Work
Electric Cable - Shooting Studs	Cable Work
Electric Cable Tray - Galv. Horizontal Elbow Type Tray	Cable Trays Charts
Electric Cable Tray - Galv. Ladder Type Tray Horizontal Tee	Cable Trays Charts
Electric Cable Tray - Galv. Ladder Type Tray Radius	Cable Trays Charts
Electric Cable Tray - Galv. Ladder Type Tray Vertical Elbow	Cable Trays Charts
Electric Cable Tray - Galv. Solid Bottom Type Tray	Cable Trays Charts
Electric Cable Tray - Galv. Vented Trough	Cable Trays Charts
Electric Cable Tray - Galv. Vented Trough Horizontal Elbow	Cable Trays Charts
Electric Cable Tray - Galv. Vertical Elbow Type Tray	Cable Trays Charts
Electric Cable Tray - Install Galv Cable Tray w/Fittings & Accessories	Cable Trays Charts
Electric Cable Tray - Install SS Cable Tray w/Fittings & Accessories	Cable Trays Charts
Electric Fiber Optic - Cable	Fiber Optic Cable
Electric Fiber Optic - Cable Miscellaneous	Fiber Optic Cable
Electric Fiber Optic - Cable Splices	Fiber Optic Cable
Electric Fiber Optic - Cable Terminations	Fiber Optic Cable
Electric Fiber Optic - Hybrid Cable	Fiber Optic Cable
Electric Fiber Optic - Hybrid Gable	Tiber Optic Cable
Electric Transits - Install Hawke HRT Circular Transit Frame	Transits Charts
Electric Wireways - "T" Box	Wireways
Electric Wireways - 90-Deg Elbow	Wireways
Electric Wireways - Fittings	Wireways
Electric Wireways - Panel Adapter	Wireways
Electric Wireways - Screw Cover	Wireways
Electrical - Battery Charging -	Electrical
Electrical - Degaussing System	Electrical
Electrical - Electrical Labor	Electrical
Electrical - Electrical Power Distribution -	Electrical
Electrical - Emergency Power Cables -	Electrical Select
Electrical - Emergency Power Cables -	Electrical
Electrical - Emergency Power Generation -	Electrical
Electrical - General Electric - Misc CERs	Electrical
Electrical - General Electrical (CuNo)	Electrical
Electrical - General Electrical (kW & SHIPSETS)	Electrical
Electrical - General Power Conversion -	Electrical
Electrical - Habitation Area Deck Area	Electrical
Electrical - Habitation Area Volume	Electrical
Electrical - Labor	Electrical
Electrical - Lighting System Distribution -	Electrical Select
Electrical - Lighting System Distribution -	Electrical
Electrical - Lighting System Fixtures -	Electrical Select
Electrical - Lighting System Fixtures -	Electrical
Electrical - Lighting System Fixtures - Estimating No. LED Fixtures	Electrical 2
Electrical - Lighting System	Electrical Lighting Systems
Electrical - Lighting System (LED)	LED Lighting
Electrical - Machinery Space Electrical	Electrical
Electrical - Motor Control Centers (MCC)	Electrical Select
Electrical - Motor Control Centers (MCC)	Electrical
Electrical - Motor Controllers	Electrical Select
Electrical - Motor Controllers	Electrical Electrical
Electrical - Ship Service Power Cables -	Electrical
Electrical - Ship Service Power Cables -	Electrical
Electrical - Ship Service Power Generation -	Electrical Electrical Select
Electrical - Switchboards Power Distribution - Electrical - Switchboards Power Distribution -	Electrical Select
Electrical - Switchboards Power Distribution - Electrical - Transformer	Electrical Select
Electrical - Transformer Electrical - Transformer	Electrical Select Electrical 2
Electrical - Transformer Electrical - Uninterupted Power Supply (UPS)	Electrical 2
Electrical - Onlinerupted Power Supply (OPS) Electrical Glands - High Voltage Glanding	Cable Glands
Electrical Glands - Stuffing Galnds	Cable Glands
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New Construction CER Category	Worksheet Name (Hyperlinked)
Electronics - Automatic Identification System (AIS)	Security
Electronics - Bridge Simulator	Electronics
Electronics - Call System: Phones, Walkie Talkie	Electronics
Electronics - Centralized Machinery Control & Monitoring System	Electronics
Electronics - Clinometers & Trim Indicator	Electronics
Electronics - Closed Circuit Monitors	Security
Electronics - Orosed Griedit Monitors Electronics - Dynamic Positioning Sys.	Electronics
Electronics - Electronic Inertial Navigation Systems	Electronics
	Electronics
Electronics - Entertainment Systems Electronics - GPS	
	Electronics
Electronics - Gyros Autopilots Compass	Electronics
Electronics - Helicopter Homing Beacon	Electronics
Electronics - Interior Communications Announcing Systems	Electronics
Electronics - Interior Communications Recording and TV	Electronics
Electronics - Interior Communications Telephone Systems [Hose-McCan	
Electronics - Interior Communications Alarms, Safety, Warning Systems	Electronics
Electronics - IP/PA Communications	Electronics
Electronics - Lifeboat Radio Transmission Equipment	Electronics
Electronics - Light & Signal Equipment	Electronics
Electronics - Navigation Lights	Electronics
Electronics - Radar Plants	Electronics
Electronics - Radar Signal & Observation Antenna & Masts	Electronics
Electronics - Radio Communications Systems	Electronics
Electronics - Radio Direction Finder	<u>Electronics</u>
Electronics - Radio Plant	Electronics
Electronics - Screening Metal Detectors	Electrical
Electronics - Search Lights	Electronics
Electronics - Security Alert System	Security
Electronics - Special Purpose Systems	Electronics
Electronics - UW Search Equip ASDIC Echo Sounder	Electronics
Electronics - Vessel Information Systems	Electronics
Electronics - VHF & UHF Telephones	Electronics
Electronics - Visual Audible Exterior Communication Systems	Electronics
Electronics - Wheelhouse Accessories	Electronics
Fees - ABS FEES	Fees
Fees - BONDS	Fees
Fees - DESIGN ROYALTIES	Fees
Fees - MARAD Title XI Fees	Fees
Fees - RISK INSURANCE	Fees
Fees - TYPE PROCUREMENT DIFFERENTIALS	Fees
HVAC - A/C Systems	HVAC
HVAC - Accommodations HVAC	HVAC
HVAC - Cargo Ventilation	HVAC
HVAC - Deck House HVAC	HVAC
HVAC - High Pressure HVAC Systems	HVAC
HVAC - HVAC & Refrigeration Machinery	HVAC
HVAC - Installation & Welding Watertight HVAC	HVAC
HVAC - Low Pressure HVAC Systems	HVAC
2000-2011 - Carlo Car	HVAC
HVAC - Scientific Refrigeration Machinery & Piping	HVAC
HVAC - Shop Fabrication & Assembly Work	HVAC
25 N C 45 C	HVAC
	HVAC
	HVAC
Insulation - Acoustic	Outfit
	Pipe Insulation Prices
	Duct & Wrap Insulation Prices
, 0	Duct & Wrap Insulation Prices
	Pipe Insulation Prices
	Pipe Insulation Prices
	Outfit Insulation
	Duct & Wrap Insulation Prices
5 1	Outfit
Insulation - Hull Insulation Conventional (pins, facing & tape) Insulation - Hull Insulation Hybrid System Radiant Barrier Coating (RBC))	
	Pipe Insulation Prices
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New Construction CER Category Worksheet Name (Hyperlinked) Insulation - Low Temperature **Duct & Wrap Insulation Prices** Insulation - Pipe **Duct & Wrap Insulation Prices** Insulation - Pipe Pipe Insulation Prices Insulation - Polyurethane Sandwich Panel, Cold Box **Outfit Insulation** Insulation - Pyrogel **Duct & Wrap Insulation Prices** Insulation - Rigid **Duct & Wrap Insulation Prices** Insulation - Sprayed-On **Outfit Insulation** Insulation - Tank **Duct & Wrap Insulation Prices** Insulation - Thermal Outfit Insulation - Wrap **Duct & Wrap Insulation Prices** Labor Rates, International - Average Shipbuilding Labor Rates International Labor Rates Labor Rates, International - Average Shipbuilding Labor Rates International Labor Rates Chart Labor Rates, USA - Auxiliary Shipbuilder **US Labor Rates** Labor Rates, USA - Average Regional Labor Rates Regional Wage Rates Labor Rates, USA - Combatant Shipbuilder **US Labor Rates** Labor Rates, USA - Commercial Mid-Tiered Shipbuilder **US Labor Rates** Labor Rates, USA - Contracted Technical Services **US Labor Rates** Labor Rates, USA - USCG Civilian Labor Rates **US Labor Rates** Labor Rates, USA - USCG Military Labor Rates US Labor Rates Machinery - High Speed Diesel Engine Prices More Machy Graphs Machinery - Low Speed Diesel Engine Prices More Machy Graphs Machinery - Medium Speed Diesel Engine Prices More Machy Graphs Machinery - Skysails **Machinery Equations** Machinery, Electric Generation - Auxiliary Power Units -Machinery Machinery, Electric Generation - Batteries Machinery Machinery, Electric Generation - Diesel Generators Machinery Machinery, Electric Generation - Diesel Generators **Diesel Engines** Machinery, Electric Generation - Diesel Generators Machinery Graphs Machinery, Electric Generation - Electric Generators Machinery Cost Models Machinery, Electric Generation - Electric Generators Elect.Generators Machinery, Electric Generation - Electric Motors Machinery Graphs Machinery, Electric Generation - Emergency Power Generation -Machinery Machinery, Electric Generation - Gas Turbines + HRSG Gas Turbines Machinery, Electric Generation - Motor Gensets Machinery Machinery, Electric Generation - Power Take-Off (PTO) Units -Machinery Machinery, Electric Generation - Power Take-Off Units Machinery Graphs Machinery, Electric Generation - Ship Service Power Generation -Machinery Machinery, Electric Generation - Spark Ignition LNG/CNG Gas Engine GI Machinery Machinery, Electric Generation - Steam Turbines Steam Turbines Machinery, Electric Generation - Wind Turbines Machinery Machinery, Electric Generation - Engine Monitoring: Torque & Power of a Machinery Machinery, Installations - Machinery & Components **Machinery Details** Machinery, Miscellaneous - Air Cushion Vehicle Machinery Machinery Machinery, Miscellaneous - Anchor gear Machinery Machinery, Miscellaneous - Auxillary machinery Machinery Machinery, Miscellaneous - Ballast Water Treatment Systems Machinery Machinery, Miscellaneous - Cargo Pump Diesel Engines Machinery Machinery, Miscellaneous - Emissions Reduction Systems (Includes Inst: Machinery Machinery, Miscellaneous - Added Cost for Tire-3 Engines Machinery Machinery, Miscellaneous - Added Cost for Tire-3 Engines Machinery Graphs Machinery, Miscellaneous - Added Cost for LNG Switching Equipment Machinery Machinery, Miscellaneous - Added Cost for LNG Switching Equipment Machinery Graphs Machinery, Miscellaneous - Added Cost for Tire-4 Engines (SCR) Machinery Machinery, Miscellaneous - Engine Weights **Engine Weights** Machinery, Miscellaneous - Equipment Spares Machinery Machinery, Miscellaneous - Gas Turbine Uptakes Machinery Machinery, Miscellaneous - Gyro Stablizers Machinery Machinery, Miscellaneous - Hydraulic Lift Systems Machinery Machinery, Miscellaneous - Hydraulic Stablizers Machinery Machinery, Miscellaneous - Intercon Tug-Barge Connector Machinery Machinery, Miscellaneous - KUBOTA Diesels **KUBOTA Diesels** Machinery, Miscellaneous - Miscellaneous Equipment Machinery

Machinery

Machinery

Machinery, Miscellaneous - Steering gear

Machinery, Miscellaneous - Winches and warping gear

New Construction CER Category

Worksheet Name (Hyperlinked)

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Machinery, Propulsion - 2-Stroke Outboards	2-Stroke Outboards
Machinery, Propulsion - 4-Stroke Outboards	4-Stroke Outboards
Machinery, Propulsion - AZIMUTH Pod Units	Machinery
Machinery, Propulsion - Boilers & HRSG	Machinery
Machinery, Propulsion - Bow & Stern Thrusters	Machinery
Machinery, Propulsion - Diesel Electric Drive - Twin AZIMUTH PODS	Machinery
Machinery, Propulsion - Diesel Electric Drive - Twin FPP	Machinery
Machinery, Propulsion - Diesel Electric Drive Propulsion Systems	Machinery
Machinery, Propulsion - Diesel Engine Components	Machinery
Machinery, Electric Generation - Diesel Generators	Diesel Engines
Machinery, Propulsion - Diesel w/CPP	Machinery Cost Models
Machinery, Propulsion - Diesel w/FPP	Machinery Cost Models
Machinery, Propulsion - Diesel w/Waterjet	Machinery Cost Models
Machinery, Propulsion - Diesel w/Z-Drive	Machinery Cost Models
Machinery, Propulsion - Diesel-Electric w/FPP	Machinery Cost Models
Machinery, Propulsion - Diesel-Electric w/Pod	Machinery Cost Models
Machinery, Propulsion - Diesel-Electric w/Waterjet	Machinery Cost Models
	Machinery
Machinery, Propulsion - Electric Loiter Motors	Account of the contract of the
Machinery, Propulsion - Fuel Cells	Machinery
Machinery, Propulsion - Gas Turbine w/FPP	Machinery Cost Models
Machinery, Propulsion - Gas Turbine w/Pod	Machinery Cost Models
Machinery, Propulsion - Gas Turbine w/Waterjet	Machinery Cost Models
Machinery, Propulsion - Gas Turbines	Machinery
Machinery, Propulsion - Gas Turbines	Gas Turbines
Machinery, Propulsion - Gear Boxes	Machinery
Machinery, Propulsion - High Performance Gas Engines	High Performance Gas Engines
Machinery, Propulsion - High Speed Diesel Engines	Machinery
Machinery, Propulsion - High Speed Diesel w/ Water Jet	Machinery
	Machinery
Machinery, Propulsion - High Speed Geared Diesel Propulsion Systems	
Machinery, Propulsion - KORT Nozzle	Machinery
Machinery, Propulsion - LNG Capable Diesel Engines	Machinery
Machinery, Propulsion - Low Speed Diesel Engines	Machinery
Machinery, Propulsion - LowSpeed Direct Drive Diesel Propulsion System	
Machinery, Propulsion - Medium Speed Diesel Engines	Machinery
Machinery, Propulsion - Medium Speed Geared Diesel Propulsion System	Machinery
Machinery, Propulsion - Misc. Supplemental Propulsion	Machinery Cost Models
Machinery, Propulsion - Misc. Supplemental Propulsion	
Machinery, Propulsion - Nuclear Electric Drive	Machinery
Machinery, Propulsion - Nuclear Electric Drive Machinery, Propulsion - Nuclear-Gas Turbine Electric Drive w/FPP	Machinery
Machinery, Propulsion - Nuclear Electric Drive Machinery, Propulsion - Nuclear-Gas Turbine Electric Drive w/FPP Machinery, Propulsion - Nuclear-Gas Turbine Electric Drive w/Pod	Machinery Machinery Cost Models Machinery Cost Models
Machinery, Propulsion - Nuclear Electric Drive Machinery, Propulsion - Nuclear-Gas Turbine Electric Drive w/FPP Machinery, Propulsion - Nuclear-Gas Turbine Electric Drive w/Pod Machinery, Propulsion - Nuclear-Gas Turbine w/Waterjet	Machinery Machinery Cost Models Machinery Cost Models Machinery Cost Models Machinery Cost Models
Machinery, Propulsion - Nuclear Electric Drive Machinery, Propulsion - Nuclear-Gas Turbine Electric Drive w/FPP Machinery, Propulsion - Nuclear-Gas Turbine Electric Drive w/Pod Machinery, Propulsion - Nuclear-Gas Turbine w/Waterjet Machinery, Propulsion - Propellers - CPP	Machinery Machinery Cost Models Machinery Cost Models Machinery Cost Models Machinery Cost Models Machinery
Machinery, Propulsion - Nuclear Electric Drive Machinery, Propulsion - Nuclear-Gas Turbine Electric Drive w/FPP Machinery, Propulsion - Nuclear-Gas Turbine Electric Drive w/Pod Machinery, Propulsion - Nuclear-Gas Turbine w/Waterjet Machinery, Propulsion - Propellers - CPP	Machinery Machinery Cost Models Machinery Cost Models Machinery Cost Models Machinery Cost Models
Machinery, Propulsion - Nuclear Electric Drive Machinery, Propulsion - Nuclear-Gas Turbine Electric Drive w/FPP Machinery, Propulsion - Nuclear-Gas Turbine Electric Drive w/Pod Machinery, Propulsion - Nuclear-Gas Turbine w/Waterjet Machinery, Propulsion - Propellers - CPP Machinery, Propulsion - Propellers - FPP	Machinery Machinery Cost Models Machinery Cost Models Machinery Cost Models Machinery Machinery Machinery
Machinery, Propulsion - Nuclear Electric Drive Machinery, Propulsion - Nuclear-Gas Turbine Electric Drive w/FPP Machinery, Propulsion - Nuclear-Gas Turbine Electric Drive w/Pod Machinery, Propulsion - Nuclear-Gas Turbine w/Waterjet Machinery, Propulsion - Propellers - CPP Machinery, Propulsion - Propellers - FPP Machinery, Propulsion - Propulsion Controls	Machinery Machinery Cost Models Machinery Cost Models Machinery Cost Models Machinery Machinery Machinery Machinery
Machinery, Propulsion - Nuclear Electric Drive Machinery, Propulsion - Nuclear-Gas Turbine Electric Drive w/FPP Machinery, Propulsion - Nuclear-Gas Turbine Electric Drive w/Pod Machinery, Propulsion - Nuclear-Gas Turbine w/Waterjet Machinery, Propulsion - Propellers - CPP Machinery, Propulsion - Propellers - FPP Machinery, Propulsion - Propulsion Controls Machinery, Propulsion - Propulsion Cost Comparison Graphs	Machinery Machinery Cost Models Machinery Cost Models Machinery Cost Models Machinery Machinery Machinery Machinery Propulsion Cost Graphs
Machinery, Propulsion - Nuclear Electric Drive Machinery, Propulsion - Nuclear-Gas Turbine Electric Drive w/FPP Machinery, Propulsion - Nuclear-Gas Turbine Electric Drive w/Pod Machinery, Propulsion - Nuclear-Gas Turbine w/Waterjet Machinery, Propulsion - Propellers - CPP Machinery, Propulsion - Propellers - FPP Machinery, Propulsion - Propulsion Controls	Machinery Machinery Cost Models Machinery Cost Models Machinery Cost Models Machinery Machinery Machinery Machinery
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Machinery, Propulsion - Nuclear Electric Drive Machinery, Propulsion - Nuclear-Gas Turbine Electric Drive w/FPP Machinery, Propulsion - Nuclear-Gas Turbine Electric Drive w/Pod Machinery, Propulsion - Nuclear-Gas Turbine w/Waterjet Machinery, Propulsion - Propellers - CPP Machinery, Propulsion - Propellers - FPP Machinery, Propulsion - Propulsion Controls Machinery, Propulsion - Propulsion Cost Comparison Graphs Machinery, Propulsion - Shafting Machinery, Propulsion - Sky Sails	Machinery Machinery Cost Models Machinery Cost Models Machinery Cost Models Machinery Machinery Machinery Machinery Propulsion Cost Graphs Machinery Machinery Machinery Machinery Machinery
Machinery, Propulsion - Nuclear Electric Drive Machinery, Propulsion - Nuclear-Gas Turbine Electric Drive w/FPP Machinery, Propulsion - Nuclear-Gas Turbine Electric Drive w/Pod Machinery, Propulsion - Nuclear-Gas Turbine w/Waterjet Machinery, Propulsion - Propellers - CPP Machinery, Propulsion - Propellers - FPP Machinery, Propulsion - Propulsion Controls Machinery, Propulsion - Propulsion Cost Comparison Graphs Machinery, Propulsion - Shafting Machinery, Propulsion - Steam Turbine w/FPP	Machinery Machinery Cost Models Machinery Cost Models Machinery Cost Models Machinery Machinery Machinery Propulsion Cost Graphs Machinery Machinery Machinery Machinery Machinery Machinery Machinery Machinery Cost Models
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Machinery, Propulsion - Nuclear Electric Drive Machinery, Propulsion - Nuclear-Gas Turbine Electric Drive w/FPP Machinery, Propulsion - Nuclear-Gas Turbine Electric Drive w/Pod Machinery, Propulsion - Nuclear-Gas Turbine w/Waterjet Machinery, Propulsion - Propellers - CPP Machinery, Propulsion - Propellers - FPP Machinery, Propulsion - Propulsion Controls Machinery, Propulsion - Propulsion Cost Comparison Graphs Machinery, Propulsion - Shafting Machinery, Propulsion - Steam Turbine w/FPP Machinery, Propulsion - Steam Turbines Machinery, Propulsion - Thrusters Machinery, Propulsion - Thrusters Machinery, Propulsion - Water Jets	Machinery Machinery Cost Models Machinery Cost Models Machinery Cost Models Machinery Machinery Machinery Propulsion Cost Graphs Machinery Machinery Machinery Machinery Machinery Machinery Machinery Cost Models Machinery Machinery Cost Models Thrusters Machinery
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Machinery, Propulsion - Nuclear Electric Drive Machinery, Propulsion - Nuclear-Gas Turbine Electric Drive w/FPP Machinery, Propulsion - Nuclear-Gas Turbine Electric Drive w/Pod Machinery, Propulsion - Nuclear-Gas Turbine W/Waterjet Machinery, Propulsion - Propellers - CPP Machinery, Propulsion - Propellers - FPP Machinery, Propulsion - Propulsion Controls Machinery, Propulsion - Propulsion Cost Comparison Graphs Machinery, Propulsion - Shafting Machinery, Propulsion - Steam Turbine w/FPP Machinery, Propulsion - Steam Turbines Machinery, Propulsion - Thrusters Machinery, Propulsion - Thrusters Machinery, Propulsion - Water Jets Machinery, Propulsion - Waterjets	Machinery Machinery Cost Models Machinery Cost Models Machinery Cost Models Machinery Machinery Machinery Propulsion Cost Graphs Machinery Machinery Machinery Machinery Machinery Machinery Machinery Cost Models Machinery Machinery Cost Models Thrusters Machinery
Machinery, Propulsion - Nuclear Electric Drive Machinery, Propulsion - Nuclear-Gas Turbine Electric Drive w/FPP Machinery, Propulsion - Nuclear-Gas Turbine Electric Drive w/Pod Machinery, Propulsion - Nuclear-Gas Turbine W/Waterjet Machinery, Propulsion - Propellers - CPP Machinery, Propulsion - Propellers - FPP Machinery, Propulsion - Propulsion Controls Machinery, Propulsion - Propulsion Cost Comparison Graphs Machinery, Propulsion - Shafting Machinery, Propulsion - Steam Turbine w/FPP Machinery, Propulsion - Steam Turbines Machinery, Propulsion - Thrusters Machinery, Propulsion - Thrusters Machinery, Propulsion - Water Jets Machinery, Propulsion - Water Jets Machinery, Propulsion - Waterjets Miscelaneous - Dredging Services	Machinery Machinery Cost Models Machinery Cost Models Machinery Cost Models Machinery Machinery Machinery Machinery Propulsion Cost Graphs Machinery Machinery Machinery Machinery Machinery Cost Models Machinery Machinery Cost Models Thrusters Machinery Waterjets Excavation Services
Machinery, Propulsion - Nuclear Electric Drive Machinery, Propulsion - Nuclear-Gas Turbine Electric Drive w/FPP Machinery, Propulsion - Nuclear-Gas Turbine Electric Drive w/Pod Machinery, Propulsion - Nuclear-Gas Turbine W/Waterjet Machinery, Propulsion - Propellers - CPP Machinery, Propulsion - Propellers - FPP Machinery, Propulsion - Propulsion Controls Machinery, Propulsion - Propulsion Cost Comparison Graphs Machinery, Propulsion - Sky Sails Machinery, Propulsion - Steam Turbine w/FPP Machinery, Propulsion - Steam Turbines Machinery, Propulsion - Thrusters Machinery, Propulsion - Thrusters Machinery, Propulsion - Water Jets Machinery, Propulsion - Water Jets Miscelaneous - Dredging Services Miscelaneous - Excavation Services	Machinery Machinery Cost Models Machinery Cost Models Machinery Cost Models Machinery Cost Models Machinery Sexuation Services Excavation Services
Machinery, Propulsion - Nuclear Electric Drive Machinery, Propulsion - Nuclear-Gas Turbine Electric Drive w/FPP Machinery, Propulsion - Nuclear-Gas Turbine Electric Drive w/Pod Machinery, Propulsion - Nuclear-Gas Turbine W/Waterjet Machinery, Propulsion - Propellers - CPP Machinery, Propulsion - Propellers - FPP Machinery, Propulsion - Propulsion Controls Machinery, Propulsion - Propulsion Cost Comparison Graphs Machinery, Propulsion - Sky Sails Machinery, Propulsion - Steam Turbine w/FPP Machinery, Propulsion - Steam Turbines Machinery, Propulsion - Thrusters Machinery, Propulsion - Thrusters Machinery, Propulsion - Water Jets Machinery, Propulsion - Water Jets Miscelaneous - Dredging Services Miscelaneous - Highways	Machinery Machinery Cost Models Machinery Cost Models Machinery Cost Models Machinery Cost Models Machinery Services Excavation Services Excavation Services Highways
Machinery, Propulsion - Nuclear Electric Drive Machinery, Propulsion - Nuclear-Gas Turbine Electric Drive w/FPP Machinery, Propulsion - Nuclear-Gas Turbine Electric Drive w/Pod Machinery, Propulsion - Nuclear-Gas Turbine W/Waterjet Machinery, Propulsion - Propellers - CPP Machinery, Propulsion - Propellers - FPP Machinery, Propulsion - Propulsion Controls Machinery, Propulsion - Propulsion Cost Comparison Graphs Machinery, Propulsion - Sky Sails Machinery, Propulsion - Steam Turbine w/FPP Machinery, Propulsion - Steam Turbines Machinery, Propulsion - Thrusters Machinery, Propulsion - Thrusters Machinery, Propulsion - Water Jets Machinery, Propulsion - Water Jets Miscelaneous - Dredging Services Miscelaneous - Excavation Services	Machinery Machinery Cost Models Machinery Cost Models Machinery Cost Models Machinery Cost Models Machinery Machinery Cost Models Machinery Machinery Cost Models Excavation Services Excavation Services Highways Ship Characteristics
Machinery, Propulsion - Nuclear Electric Drive Machinery, Propulsion - Nuclear-Gas Turbine Electric Drive w/FPP Machinery, Propulsion - Nuclear-Gas Turbine Electric Drive w/Pod Machinery, Propulsion - Nuclear-Gas Turbine W/Waterjet Machinery, Propulsion - Propellers - CPP Machinery, Propulsion - Propellers - FPP Machinery, Propulsion - Propulsion Controls Machinery, Propulsion - Propulsion Cost Comparison Graphs Machinery, Propulsion - Shafting Machinery, Propulsion - Steam Turbine w/FPP Machinery, Propulsion - Steam Turbines Machinery, Propulsion - Thrusters Machinery, Propulsion - Thrusters Machinery, Propulsion - Water Jets Machinery, Propulsion - Water Jets Machinery, Propulsion - Waterjets Miscelaneous - Dredging Services Miscelaneous - Highways Miscelaneous - Ship Characteristics	Machinery Machinery Cost Models Machinery Cost Models Machinery Cost Models Machinery Cost Models Machinery Services Excavation Services Excavation Services Highways
Machinery, Propulsion - Nuclear Electric Drive Machinery, Propulsion - Nuclear-Gas Turbine Electric Drive w/FPP Machinery, Propulsion - Nuclear-Gas Turbine Electric Drive w/Pod Machinery, Propulsion - Nuclear-Gas Turbine W/Waterjet Machinery, Propulsion - Propellers - CPP Machinery, Propulsion - Propellers - FPP Machinery, Propulsion - Propulsion Controls Machinery, Propulsion - Propulsion Cost Comparison Graphs Machinery, Propulsion - Shafting Machinery, Propulsion - Steam Turbine w/FPP Machinery, Propulsion - Steam Turbines Machinery, Propulsion - Thrusters Machinery, Propulsion - Thrusters Machinery, Propulsion - Water Jets Machinery, Propulsion - Water Jets Machinery, Propulsion - Water Jets Machinery, Propulsion - Waterjets Miscelaneous - Dredging Services Miscelaneous - Highways Miscelaneous - Ship Characteristics Miscelaneous - Units of Measure	Machinery Machinery Cost Models Machinery Cost Models Machinery Cost Models Machinery Cost Models Machinery Machinery Cost Models Machinery Machinery Cost Models Machinery Machinery Cost Models Machinery Machinery Machinery Machinery Services Excavation Services Excavation Services Highways Ship Characteristics Units of Measure
Machinery, Propulsion - Nuclear Electric Drive Machinery, Propulsion - Nuclear-Gas Turbine Electric Drive w/FPP Machinery, Propulsion - Nuclear-Gas Turbine Electric Drive w/Pod Machinery, Propulsion - Nuclear-Gas Turbine W/Waterjet Machinery, Propulsion - Propellers - CPP Machinery, Propulsion - Propellers - FPP Machinery, Propulsion - Propulsion Controls Machinery, Propulsion - Propulsion Cost Comparison Graphs Machinery, Propulsion - Shafting Machinery, Propulsion - Steam Turbine w/FPP Machinery, Propulsion - Steam Turbines Machinery, Propulsion - Thrusters Machinery, Propulsion - Thrusters Machinery, Propulsion - Water Jets Machinery, Propulsion - Water Jets Machinery, Propulsion - Waterjets Miscelaneous - Dredging Services Miscelaneous - Highways Miscelaneous - Ship Characteristics Miscelaneous - Units of Measure Miscelaneous - Work Type	Machinery Machinery Cost Models Machinery Cost Models Machinery Cost Models Machinery Machinery Machinery Machinery Propulsion Cost Graphs Machinery Machinery Machinery Machinery Machinery Cost Models Machinery Machinery Cost Models Machinery Machinery Cost Models Excavation Services Excavation Services Highways Ship Characteristics Units of Measure Work Type
Machinery, Propulsion - Nuclear Electric Drive Machinery, Propulsion - Nuclear-Gas Turbine Electric Drive w/FPP Machinery, Propulsion - Nuclear-Gas Turbine Electric Drive w/Pod Machinery, Propulsion - Nuclear-Gas Turbine W/Waterjet Machinery, Propulsion - Propellers - CPP Machinery, Propulsion - Propellers - FPP Machinery, Propulsion - Propulsion Controls Machinery, Propulsion - Propulsion Cost Comparison Graphs Machinery, Propulsion - Shafting Machinery, Propulsion - Steam Turbine w/FPP Machinery, Propulsion - Steam Turbines Machinery, Propulsion - Thrusters Machinery, Propulsion - Thrusters Machinery, Propulsion - Water Jets Machinery, Propulsion - Water Jets Machinery, Propulsion - Water Jets Machinery, Propulsion - Waterjets Miscelaneous - Dredging Services Miscelaneous - Highways Miscelaneous - Ship Characteristics Miscelaneous - Units of Measure	Machinery Machinery Cost Models Machinery Cost Models Machinery Cost Models Machinery Cost Models Machinery Machinery Cost Models Machinery Machinery Cost Models Machinery Machinery Cost Models Machinery Machinery Machinery Machinery Services Excavation Services Excavation Services Highways Ship Characteristics Units of Measure
Machinery, Propulsion - Nuclear Electric Drive Machinery, Propulsion - Nuclear-Gas Turbine Electric Drive w/FPP Machinery, Propulsion - Nuclear-Gas Turbine Electric Drive w/Pod Machinery, Propulsion - Nuclear-Gas Turbine W/Waterjet Machinery, Propulsion - Propellers - CPP Machinery, Propulsion - Propellers - FPP Machinery, Propulsion - Propulsion Controls Machinery, Propulsion - Propulsion Cost Comparison Graphs Machinery, Propulsion - Shafting Machinery, Propulsion - Steam Turbine w/FPP Machinery, Propulsion - Steam Turbines Machinery, Propulsion - Thrusters Machinery, Propulsion - Thrusters Machinery, Propulsion - Water Jets Machinery, Propulsion - Water Jets Machinery, Propulsion - Waterjets Miscelaneous - Dredging Services Miscelaneous - Excavation Services Miscelaneous - Ship Characteristics Miscelaneous - Units of Measure Miscelaneous - Work Type Miscellaneous - Media Events	Machinery Machinery Cost Models Machinery Cost Models Machinery Cost Models Machinery Cost Models Machinery Machinery Cost Models Machinery Machinery Machinery Cost Models Excavation Services Excavation Services Excavation Services Highways Ship Characteristics Units of Measure Work Type Miscellaneous
Machinery, Propulsion - Nuclear Electric Drive Machinery, Propulsion - Nuclear-Gas Turbine Electric Drive w/FPP Machinery, Propulsion - Nuclear-Gas Turbine Electric Drive w/Pod Machinery, Propulsion - Nuclear-Gas Turbine W/Waterjet Machinery, Propulsion - Propellers - CPP Machinery, Propulsion - Propellers - FPP Machinery, Propulsion - Propulsion Controls Machinery, Propulsion - Propulsion Cost Comparison Graphs Machinery, Propulsion - Shafting Machinery, Propulsion - Steam Turbine w/FPP Machinery, Propulsion - Steam Turbines Machinery, Propulsion - Thrusters Machinery, Propulsion - Thrusters Machinery, Propulsion - Water Jets Machinery, Propulsion - Water Jets Machinery, Propulsion - Waterjets Miscelaneous - Dredging Services Miscelaneous - Excavation Services Miscelaneous - Ship Characteristics Miscelaneous - Units of Measure Miscelaneous - Work Type Miscellaneous - Media Events	Machinery Machinery Cost Models Machinery Cost Models Machinery Cost Models Machinery Machinery Machinery Machinery Propulsion Cost Graphs Machinery Machinery Machinery Machinery Machinery Cost Models Machinery Machinery Cost Models Machinery Machinery Cost Models Excavation Services Excavation Services Highways Ship Characteristics Units of Measure Work Type
Machinery, Propulsion - Nuclear Electric Drive Machinery, Propulsion - Nuclear-Gas Turbine Electric Drive w/FPP Machinery, Propulsion - Nuclear-Gas Turbine Electric Drive w/Pod Machinery, Propulsion - Nuclear-Gas Turbine W/Waterjet Machinery, Propulsion - Propellers - CPP Machinery, Propulsion - Propellers - FPP Machinery, Propulsion - Propulsion Controls Machinery, Propulsion - Propulsion Cost Comparison Graphs Machinery, Propulsion - Shafting Machinery, Propulsion - Sky Sails Machinery, Propulsion - Steam Turbine w/FPP Machinery, Propulsion - Steam Turbines Machinery, Propulsion - Thrusters Machinery, Propulsion - Thrusters Machinery, Propulsion - Water Jets Machinery, Propulsion - Water Jets Machinery, Propulsion - Waterjets Miscelaneous - Dredging Services Miscelaneous - Excavation Services Miscelaneous - Highways Miscelaneous - Ship Characteristics Miscelaneous - Units of Measure Miscelaneous - Work Type Miscellaneous - Media Events Oil & Gas Equipment - Subsea Power Cable	Machinery Machinery Cost Models Machinery Cost Models Machinery Cost Models Machinery Machinery Machinery Machinery Propulsion Cost Graphs Machinery Machinery Machinery Machinery Cost Models Machinery Machinery Cost Models Machinery Machinery Cost Models Thrusters Machinery Waterjets Excavation Services Excavation Services Highways Ship Characteristics Units of Measure Work Type Miscellaneous Oil-Gas Equipment
Machinery, Propulsion - Nuclear Electric Drive Machinery, Propulsion - Nuclear-Gas Turbine Electric Drive w/FPP Machinery, Propulsion - Nuclear-Gas Turbine Electric Drive w/Pod Machinery, Propulsion - Nuclear-Gas Turbine W/Waterjet Machinery, Propulsion - Propellers - CPP Machinery, Propulsion - Propellers - FPP Machinery, Propulsion - Propulsion Controls Machinery, Propulsion - Propulsion Cost Comparison Graphs Machinery, Propulsion - Shafting Machinery, Propulsion - Steam Turbine w/FPP Machinery, Propulsion - Steam Turbines Machinery, Propulsion - Thrusters Machinery, Propulsion - Thrusters Machinery, Propulsion - Water Jets Machinery, Propulsion - Water Jets Machinery, Propulsion - Waterjets Miscelaneous - Dredging Services Miscelaneous - Excavation Services Miscelaneous - Ship Characteristics Miscelaneous - Units of Measure Miscelaneous - Work Type Miscellaneous - Media Events Oil & Gas Equipment - Subsea Power Cable Oil & Gas Equipment - Floating Oil Transfer Hose	Machinery Machinery Cost Models Machinery Cost Models Machinery Cost Models Machinery Machinery Machinery Machinery Propulsion Cost Graphs Machinery Machinery Machinery Machinery Cost Models Machinery Machinery Cost Models Machinery Machinery Cost Models Thrusters Machinery Waterjets Excavation Services Excavation Services Highways Ship Characteristics Units of Measure Work Type Miscellaneous Oil-Gas Equipment Oil-Gas Equipment
Machinery, Propulsion - Nuclear Electric Drive Machinery, Propulsion - Nuclear-Gas Turbine Electric Drive w/FPP Machinery, Propulsion - Nuclear-Gas Turbine Electric Drive w/Pod Machinery, Propulsion - Nuclear-Gas Turbine w/Waterjet Machinery, Propulsion - Propellers - CPP Machinery, Propulsion - Propellers - FPP Machinery, Propulsion - Propulsion Controls Machinery, Propulsion - Propulsion Cost Comparison Graphs Machinery, Propulsion - Shafting Machinery, Propulsion - Steam Turbine w/FPP Machinery, Propulsion - Steam Turbines Machinery, Propulsion - Thrusters Machinery, Propulsion - Thrusters Machinery, Propulsion - Water Jets Machinery, Propulsion - Water Jets Machinery, Propulsion - Waterjets Miscelaneous - Dredging Services Miscelaneous - Excavation Services Miscelaneous - Ship Characteristics Miscelaneous - Units of Measure Miscelaneous - Work Type Miscellaneous - Media Events Oil & Gas Equipment - Subsea Power Cable Oil & Gas Equipment - Floating Oil Transfer Hose Oil & Gas Equipment - Subsea Active Heavy Compensated Crane	Machinery Machinery Cost Models Machinery Cost Models Machinery Cost Models Machinery Machinery Machinery Machinery Propulsion Cost Graphs Machinery Machinery Machinery Machinery Machinery Cost Models Machinery Machinery Cost Models Machinery Machinery Cost Models Thrusters Machinery Waterjets Excavation Services Excavation Services Highways Ship Characteristics Units of Measure Work Type Miscellaneous Oil-Gas Equipment Outfit Equipment
Machinery, Propulsion - Nuclear Electric Drive Machinery, Propulsion - Nuclear-Gas Turbine Electric Drive w/FPP Machinery, Propulsion - Nuclear-Gas Turbine Electric Drive w/Pod Machinery, Propulsion - Nuclear-Gas Turbine W/Waterjet Machinery, Propulsion - Propellers - CPP Machinery, Propulsion - Propellers - FPP Machinery, Propulsion - Propulsion Controls Machinery, Propulsion - Propulsion Cost Comparison Graphs Machinery, Propulsion - Shafting Machinery, Propulsion - Steam Turbine w/FPP Machinery, Propulsion - Steam Turbines Machinery, Propulsion - Thrusters Machinery, Propulsion - Thrusters Machinery, Propulsion - Water Jets Machinery, Propulsion - Water Jets Machinery, Propulsion - Waterjets Miscelaneous - Dredging Services Miscelaneous - Excavation Services Miscelaneous - Ship Characteristics Miscelaneous - Units of Measure Miscelaneous - Work Type Miscellaneous - Media Events Oil & Gas Equipment - Subsea Power Cable Oil & Gas Equipment - Floating Oil Transfer Hose	Machinery Machinery Cost Models Machinery Cost Models Machinery Cost Models Machinery Machinery Machinery Machinery Propulsion Cost Graphs Machinery Machinery Machinery Machinery Machinery Cost Models Machinery Machinery Cost Models Machinery Machinery Cost Models Thrusters Machinery Waterjets Excavation Services Excavation Services Highways Ship Characteristics Units of Measure Work Type Miscellaneous Oil-Gas Equipment Outfit Equipment
Machinery, Propulsion - Nuclear Electric Drive Machinery, Propulsion - Nuclear-Gas Turbine Electric Drive w/FPP Machinery, Propulsion - Nuclear-Gas Turbine Electric Drive w/Pod Machinery, Propulsion - Nuclear-Gas Turbine w/Waterjet Machinery, Propulsion - Propellers - CPP Machinery, Propulsion - Propellers - FPP Machinery, Propulsion - Propulsion Controls Machinery, Propulsion - Propulsion Cost Comparison Graphs Machinery, Propulsion - Shafting Machinery, Propulsion - Steam Turbine w/FPP Machinery, Propulsion - Steam Turbines Machinery, Propulsion - Thrusters Machinery, Propulsion - Thrusters Machinery, Propulsion - Water Jets Machinery, Propulsion - Water Jets Machinery, Propulsion - Waterjets Miscelaneous - Dredging Services Miscelaneous - Excavation Services Miscelaneous - Ship Characteristics Miscelaneous - Units of Measure Miscelaneous - Work Type Miscellaneous - Media Events Oil & Gas Equipment - Subsea Power Cable Oil & Gas Equipment - Floating Oil Transfer Hose Oil & Gas Equipment - Subsea Active Heavy Compensated Crane	Machinery Machinery Cost Models Machinery Cost Models Machinery Cost Models Machinery Machinery Machinery Machinery Propulsion Cost Graphs Machinery Machinery Machinery Machinery Machinery Cost Models Machinery Machinery Cost Models Machinery Machinery Cost Models Thrusters Machinery Waterjets Excavation Services Excavation Services Highways Ship Characteristics Units of Measure Work Type Miscellaneous Oil-Gas Equipment Outfit Equipment
Machinery, Propulsion - Nuclear Electric Drive Machinery, Propulsion - Nuclear-Gas Turbine Electric Drive w/FPP Machinery, Propulsion - Nuclear-Gas Turbine Electric Drive w/Pod Machinery, Propulsion - Nuclear-Gas Turbine w/Waterjet Machinery, Propulsion - Propellers - CPP Machinery, Propulsion - Propellers - FPP Machinery, Propulsion - Propulsion Controls Machinery, Propulsion - Propulsion Cost Comparison Graphs Machinery, Propulsion - Shafting Machinery, Propulsion - Steam Turbine w/FPP Machinery, Propulsion - Steam Turbines Machinery, Propulsion - Thrusters Machinery, Propulsion - Thrusters Machinery, Propulsion - Water Jets Machinery, Propulsion - Water Jets Machinery, Propulsion - Waterjets Miscelaneous - Dredging Services Miscelaneous - Excavation Services Miscelaneous - Units of Measure Miscelaneous - Units of Measure Miscelaneous - Work Type Miscelaneous - Media Events Oil & Gas Equipment - Subsea Power Cable Oil & Gas Equipment - Subsea Active Heavy Compensated Crane Oil & Gas Equipment - Subsea Active Heavy Compensated Crane Oil & Gas Equipment - Offshore Gas Steel Tube Umbilical (Aker - Norway	Machinery Machinery Cost Models Machinery Cost Models Machinery Cost Models Machinery Machinery Machinery Machinery Propulsion Cost Graphs Machinery Machinery Machinery Machinery Machinery Cost Models Machinery Machinery Cost Models Machinery Machinery Cost Models Thrusters Machinery Waterjets Excavation Services Excavation Services Highways Ship Characteristics Units of Measure Work Type Miscellaneous Oil-Gas Equipment Outfit Equipment

Worksheet Name (Hyperlinked) **New Construction CER Category** Outfit - Anchor & Anchor Gear Outfit Equipment Outfit - Anchor Chain Anchor & Mooring Outfit - Anchor Chain Stopper Anchor & Mooring Outfit - Anchor Chain Swivel Anchor & Mooring Outfit - Anchor Winch Anchor & Mooring Outfit - Anchor Windlass Outfit Equipment Outfit - ATB Connectors Outfit Equipment Outfit - Berthing Areas Outfit Outfit - Bollards, Bitts, Chocks & Fairleads **Outfit Equipment** Outfit - Bulker Hatch Covers **Outfit Equipment** Outfit - Capstan Anchor & Mooring Outfit - Cathotic Protection Outfit Outfit - Ceilings Outfit Outfit - Containers Miscellaneous Outfit - Container Cell Guides & Handling Equipment Miscellaneous Outfit - Cranes **Outfit Equipment** Outfit - Davits Outfit Outfit - Deck Coverings Outfit Outfit - Doors Outfit Outfit - Doors - Water Tight Outfit Outfit - Doors - Aircraft Hangar Outfit Outfit - Drilling Equipment **Outfit Equipment** Outfit - Elevators & Lift Equipment Outfit Equipment Outfit - Evacuation Systems Outfit Equipment Outfit - Fenders & Fender Gear Outfit Equipment Outfit - Fenders & Fender Gear <u>Fenders</u> Outfit - Fire Fighting Equipment **Outfit Equipment** Outfit - Floors, Ladders, Walkways, & Grates Outfit Outfit - Food Prep Area Outfit Outfit - Forklift Equipment Outfit Equipment Outfit - Fuel Tanks **Outfit Equipment** Outfit - Furnishing & Fixtures by Type Area Outfit Outfit - General Zone Outfit Outfit Outfit - Hatches Outfit Outfit - Hand Grabs Outfit Outfit - Helicopter Recovery, Securing & Transfer (HRST) System **Outfit Equipment** Outfit - Hull Designations And Markings Outfit Outfit - Joiner Work & Furnishings Outfit Outfit - Joiner Wall & Bulkhead Panels Joiner Panels Outfit - Keel Blocks **Outfit Equipment** Outfit - Ladders & Stairwells Outfit Outfit - Laundry Facilities Outfit Outfit - Life & Rescue Boats & Tenders **Outfit Equipment** Outfit - Life Buoys **Outfit Equipment** Outfit - Life Buoys Life Rafts & Life Buoys Outfit - Life Jackets & Survival Suits **Outfit Equipment** Outfit - Life Rafts Life Rafts & Life Buoys Outfit - Life Rafts & Raft Davits Outfit Equipment Outfit - LNG Tanks Outfit Equipment Outfit Outfit - Lockers Outfit - Machinery Spaces Furnishings Outfit Outfit - Manholes & Cleaning Ports Outfit Outfit - Masts and Spars Outfit Outfit - Medical Facilities Outfit Outfit - Metal Sheathing & Bulkheads Outfit Outfit - Mooring & Towing Gear **Outfit Equipment** Outfit - Mooring Winch Anchor & Mooring Outfit - Mooring/Tow Synthetic Rope Anchor & Mooring Outfit - Mooring/Tow Wire Rope Anchor & Mooring Outfit - Office Equip & Furn in Wheelhouse Outfit Outfit - PAX Lounge Facilities Outfit Outfit - Polution Control Equipment **Outfit Equipment** Outfit - Purchased Vehicle Ramps **Outfit Equipment**

Outfit - Railings, Ladders & Stairwells

Outfit - Ro/Ro Bow Doors & Ramps

Outfit - Rigging & Canvas

Outfit - Ship's Office Facilities

Outfit - Shops & Storerooms

Outfit

Outfit

Outfit

Outfit Equipment

Outfit Equipment

New Construction CER Category Worksheet Name (Hyperlinked) Outfit - Signage, Label Plates & ID Tags Outfit Outfit - Smoke Stacks & Uptakes Outfit Outfit - Steering Gear Systems Outfit Outfit - Synthetic Mooring Rope **Outfit Equipment** Outfit - Tanks Outfit Outfit - Tanks, Steel Tanks Outfit - US Navy Sonar Domes - Polymer/Composite **Outfit Equipment** Outfit - Vehicle Deck Tie Downs Outfit Equipment Outfit - Wheelhouse & Chartroom Furnishings Outfit Outfit - Windows & Ports Outfit Outfit - Wire Rope **Outfit Equipment** Outfit - Cruise Ship: Auditorium Furnishings Outfit-Cruise Outfit - Cruise Ship: Average Costs per Ship Area Outfit-Cruise Outfit - Cruise Ship: Barber Shop/Salon Furnishings Outfit-Cruise Outfit - Cruise Ship: Bench Setees Outfit-Cruise Outfit - Cruise Ship: Berths Outfit-Cruise Outfit - Cruise Ship: Bookcases Outfit-Cruise Outfit - Cruise Ship: Café/Store Furnishings Outfit-Cruise Outfit - Cruise Ship: Cafeteria Seating Outfit-Cruise Outfit - Cruise Ship: Conference Room Furnishings Outfit-Cruise Outfit - Cruise Ship: Conitnuousn Ceiling Systems Outfit-Cruise Outfit - Cruise Ship: Counters & Vanities Outfit-Cruise Outfit - Cruise Ship: Deck Covering/Carpeting Outfit-Cruise Outfit - Cruise Ship: Deluxe Berthing Furnishings Outfit-Cruise Outfit - Cruise Ship: Drinking Fountains Outfit-Cruise Outfit - Cruise Ship: Executive Chairs Outfit-Cruise Outfit - Cruise Ship: Exterior Seats Outfit-Cruise Outfit - Cruise Ship: Food Service Equipment Outfit-Cruise Outfit - Cruise Ship: Gym/Exercise Equipment Outfit-Cruise Outfit - Cruise Ship: Lavatories - Passenger Area Outfit-Cruise Outfit - Cruise Ship: Lavatories Automatic Sensor Controls Outfit-Cruise Outfit - Cruise Ship: Lavatories Soap Dispensers Outfit-Cruise Outfit - Cruise Ship: Library Furnishings Outfit-Cruise Outfit - Cruise Ship: Lockers Outfit-Cruise Outfit - Cruise Ship: Lounge Booths/Table Outfit-Cruise Outfit - Cruise Ship: Medical Couch Outfit-Cruise Outfit - Cruise Ship: Miscellaneous Desks Outfit-Cruise Outfit - Cruise Ship: Office Furnishings Outfit-Cruise Outfit - Cruise Ship: Passenger Deck Safety Walk-Off Grating Outfit-Cruise Outfit - Cruise Ship: Passenger Transit Seats Outfit-Cruise Outfit - Cruise Ship: Poured Decking Outfit-Cruise Outfit - Cruise Ship: Safety Flooring Outfit-Cruise Outfit - Cruise Ship: Safety Walk-On Matting Outfit-Cruise Outfit - Cruise Ship: Ship's Office Couch Outfit-Cruise Outfit - Cruise Ship: Side Chairs Outfit-Cruise Outfit - Cruise Ship: Stanchion Trim Outfit-Cruise Outfit-Cruise

Outfit - Cruise Ship: Stateroom Desk Outfit - Cruise Ship: Stateroom File Cabinets Outfit - Cruise Ship: Toilet Stall Partitions Outfit - Cruise Ship: Toilet/Rest Room Accessories Outfit - Cruise Ship: Urinals Outfit - Cruise Ship: Urinals Automatic Flush Controls Outfit - Cruise Ship: Wainscoting (Restroom Wall Covering) Outfit - Cruise Ship: Water Closet Automatic Flush Sensors

Pipe Bending - Black Steel Pipe Bending - Black Steel Pipe Bending - Copper Pipe Bending - Copper Pipe Bending - Copper Nickel Pipe Bending - Copper Nickel Pipe Bending - CRES Pipe Bending - CRES Pipe Bending - Galvanized Pipe Bending - Galvanized

Outfit - Cruise Ship: Water Closets

Outfit-Cruise Pipe Bends Charts Pipe Bending PBI Pipe Bends Charts Pipe Bending PBI

Outfit-Cruise

Outfit-Cruise

Outfit-Cruise

Outfit-Cruise

Outfit-Cruise

Outfit-Cruise

Outfit-Cruise

New Construction CER Category Worksheet Name (Hyperlinked) Pipe Fabrication - CRES CRES Pipe Fab PBI Pipe Specs - ANSI ANSI Pipe Specs Piping Systems - Ballast Treat Systems Pumps & Piping Piping Systems - Bilge & Ballast Systems Pumps & Piping Piping Systems - Charts Pipe, Fits & Hangers Charts Pipe, Fits & Hangers Piping Systems - Compressed Air Systems Pumps & Piping Piping Systems - Container Shore Facility Crane Outfit Misc. Piping Systems - Deck Drains & Scuppers Outfit Piping Systems - Deck Heating Systems Pumps & Piping Piping Systems - Exhaust, Smoke Stacks & Uptakes Pumps & Piping Piping Systems - Fire Extinguishing Systems Pumps & Piping Piping Systems - Fresh Water Cooling Systems Pumps & Piping Piping Systems - Fresh Water Distiller Watermaker Pumps & Piping Piping Systems - Fresh Water Evaporator Watermaker System Pumps & Piping Piping Systems - Fresh Water Reverse Osmosis Watermaker System Pumps & Piping Piping Systems - Fuel Burning Systems Pumps & Piping Piping Systems - Fuel Fill, Transfer & Purify Systems Pumps & Piping Piping Systems - Fuel Oil Heating Systems Pumps & Piping Piping Systems - Fuel Vent Systems Pumps & Piping Piping Systems - Garbage Disposal Systems Pumps & Piping Piping Systems - Hellicopter Refueling System Pumps & Piping Piping Systems - HVAC Piping Pumps & Piping Piping Systems - Hydraulic Systems Pumps & Piping Piping Systems - Hydrophore Units Pumps & Piping Piping Systems - Incinerator Systems Pumps & Piping Piping Systems - Large-Scale Desalinization Plants (MSF-Multi-Stage Fla Outfit Misc. Piping Systems - Liquid Cargo Systems Pumps & Piping Piping Systems - LNG Re-Liquidation Systems Pumps & Piping Piping Systems - Lube Oil Systems Pumps & Piping Piping Systems - Misc. Machinery Piping Pumps & Piping Piping Systems - Navigation Light Outfit Misc. Piping Systems - Pipe - Bondstran Bondstran FRP Pipe & Fits Piping Systems - Pipe - Copper Nickel CuNi & Titanium Pipe Piping Systems - Pipe - Copper Nickel CuNi & Titanium Pipe Prices Piping Systems - Pipe - Copper Nickel Non-Steel Pipe Graphs Piping Systems - Pipe - PVC & ProPEX **PVC Pipe** Piping Systems - Pipe - Rolled Plate Tubes Rolled Plate Tubes Piping Systems - Pipe - Stainless Steel CuNi & Titanium Pipe Prices Piping Systems - Pipe - Stainless Steel, 304, 316, SCH 40, SCH 80 **StainlessPipeMaterial** Piping Systems - Pipe - Stainless Steel SS Pipe \$M Piping Systems - Pipe - Stainless Steel SS Pipe \$FT Piping Systems - Pipe - Stainless Steel SS Pipe Price Graphs Piping Systems - Pipe - Stainless Steel 316L SS Pipe & Fits Piping Systems - Pipe - Stainless Steel Fittings 316L SS Pipe & Fits Piping Systems - Pipe - Steel Black & Seamless Steel Pipe \$M Piping Systems - Pipe - Steel Black & Seamless Steel Pipe \$Foot Piping Systems - Pipe - Steel Black (Seamless, ERW & Welded) Steel Pipe Price Graphs Piping Systems - Pipe - Steel Galvanized Pipe Steel Pipe Price Graphs Piping Systems - Pipe - Steel Pipe Characteristics Pipe Specs Piping Systems - Pipe - Steel Pipe Prices Pipe Specs Piping Systems - Pipe - Titanium CuNi & Titanium Pipe Piping Systems - Pipe - Titanium CuNi & Titanium Pipe Prices Piping Systems - Pipe - Titanium Non-Steel Pipe Graphs Piping Systems - Pipe - Titanium **TitaniumPipeMaterial** Piping Systems - Pipe - Victaulic Roll-Grooved Steel Pipe Fittings Pumps & Piping Piping Systems - Plumbing Systems Pumps & Piping Piping Systems - Pump Installation Charts-Pumps Piping Systems - Pumps Pumps & Piping Piping Systems - Sea Water Cooling Systems Pumps & Piping Piping Systems - Searchlight Outfit Misc. Piping Systems - Sewerage Treatment Systems Pumps & Piping Piping Systems - Steam Condensate & Feed Systems Pumps & Piping Piping Systems - Teeyay Pipe Couplings Pumps & Piping Piping Systems - Uncontaminated SW & Incubator Systems Pumps & Piping

Piping Systems - Valve Prices & Installation Hours

Piping Systems - Valves, Ball

Valve Graphs

Valves

New Construction CER Category Worksheet Name (Hyperlinked) Piping Systems - Valves, Butterfly Valves Piping Systems - Valves, Check Valves Piping Systems - Valves, Gate **Valves** Piping Systems - Valves, Globe Valves Piping Systems - Valves, Motor-Operated Valves Piping Systems - Valves, Pressure/Vacuum Valves Piping Systems - Valves, Relief Valves Piping Systems - Waste Oil Systems Pumps & Piping Piping Systems - Watermakers & Osmosis Systems Pumps & Piping Piping Systems - Watermakers & Osmosis Systems Watermakers Productivity Factors - Hull Size Productivity Factors Structural Size Factors Productivity Factors - International Shipyards Internat'l Perform. Factor Productivity Factors - U.S. Shipyards Shipyard Performance Factors Productivity Factors - Stage of Construction Shipyard Performance Factors Productivity Factors - On-Board Work Areas Shipyard Performance Factors Productivity Factors - Work Height Shipyard Performance Factors Productivity Factors - Mild Steel Shipyard Performance Factors Productivity Factors - HT Steel Shipyard Performance Factors Productivity Factors - HY80 Steel Shipyard Performance Factors Productivity Factors - HSLA80 Steel Shipyard Performance Factors Productivity Factors - HY100 Steel Shipyard Performance Factors Productivity Factors - HSLA100 Steel Shipyard Performance Factors Productivity Factors - HSLA100M Steel Shipyard Performance Factors Productivity Factors - HY130 Steel Shipyard Performance Factors Productivity Factors - CP Ti50 A Titanium Shipyard Performance Factors Productivity Factors - Ti130 Titanium Shipyard Performance Factors Productivity Factors - Aluminum 5086 Shipyard Performance Factors Productivity Factors - Aluminum 5456 Shipyard Performance Factors Science Equipment - Acoustic Systems HydroEquip Science Equipment - Centerboard and Trunk [controls & outfitting] HydroEquip Science Equipment - Hydrographic Research A-Frame Hydrographic Equipment Science Equipment - Hydrographic Research Deck Equipment Hydrographic Equipment Science Equipment - Hydrographic Research Electronics Hydrographic Equipment Science Equipment - Hydrographic Research Lab Equipment Hydrographic Equipment Science Equipment - Hydrographic Research Miscellaneous Hydrographic Equipment Science Equipment - Oceanographic Science Equipment **HydroEquip** Science Equipment - Science Communications **HydroEquip** Science Equipment - Science Deck Equipment **HydroEquip** Science Equipment - Science Outfit and Furnishings HydroEquip Science Equipment - Sub-Sea Vehicles Sub-Sea Vehicles Science Equipment - Trawl Outfit and Equipment **HydroEquip** Security Registration - Ship Registration Security Security Registration - Ship Security Certification Security Security Registration - Ship Security Plan Security Security Registration - Training, Ship Security Officer (MTSA/ISPS/TWIC Security Shipyard Services - Barging Hull Blocks -TugBargeSea Services Shipyard Services - Crew Training **Shipyard Services** Shipyard Services - Equipment Rentals - No Resident Equipment **Shipyard Services** Shipyard Services - Fire department **Shipyard Services** Shipyard Services - Freight - Average Equipment & Material Shipyard Services Shipyard Services - Inland Tug/Barge TugBargeSea Services Shipyard Services - Inspection Fees **Shipyard Services** Shipyard Services - Inspection, Coating Destructive Shipyard Services Shipyard Services - Inspection, Radiographic Shipyard Services Shipyard Services - Jigs & Fixtures Shipyard Services Shipyard Services - Land Transportation of Hull Blocks TugBargeSea Services Shipyard Services - Launching party Shipyard Services Shipyard Services - Material Expediting **Shipyard Services** Shipyard Services - Material Handling Shipyard Services Shipyard Services - Miscellaneous Shipyard Services Shipyard Services - Mock Ups Shipyard Services Shipyard Services - Monthly Services Shipyard Services Shipyard Services - NDT Testing of Welds-Pt (liquid penetrant) Shipyard Services

Shipyard Services

Shipyard Services - Patterns

New Construction CER Category Worksheet Name (Hyperlinked) Shipyard Services - Preparation, holds, quarters, machinery spaces Shipyard Services Shipyard Services - Production Engineering Shipyard Services Shipyard Services - Production Planning Shipyard Services Shipyard Services - Project Administration Shipyard Services Shipyard Services - Protection Services **Shipyard Services** Shipyard Services - Quality Control **Shipyard Services** Shipyard Services - RO-RO Sea Transport TugBargeSea Services Shipyard Services - Staging & Scaffolding Services Charts Shipyard Services - Staging and Launching Shipyard Services Shipyard Services - Supervision & Production Control Shipyard Services Shipyard Services - Tank Air Test (per tank) Shipyard Services Shipyard Services - Temporary lights, heating, power, etc. Shipyard Services Shipyard Services - Testing Shipyard Services Shipyard Services - Tools & instruments Shipyard Services Shipyard Services - Tools & General Spares Shipyard Services Shipyard Services - Trials Shipyard Services Shipyard Services - Transport Vessel Cradles TugBargeSea Services Shipyard Services - Transport Vessel Services TugBargeSea Services Shipyard Services - Tug Services - Hampton Roads Area TugBargeSea Services Shipyard Services - Tug Services - Philadelphia Area TugBargeSea Services Shipyard Services - Tugs - per hour per tug Shipyard Services Shipyard Services - Ultra-sonic thickness readings Shipyard Services Structural Material Process - Cutting, Laser Plate Cutting Laser Plate Cutting Structural Material Process - Cutting, Oxy-Fuel Plate Cutting Oxy-Fuel Plate Cutting Structural Material Process - Cutting, Plasma Plate Cutting Plasma Plate Cutting Structural Material Process - Cutting, Waterjet Plate Cutting Waterjet Plate Cutting Structural Material Process - Gouging Gouging Structural Material Process - Metal Cutting, Welding & Grindi Metal Cutting, Welding & Grindi Structural Material Process - Metals Machining Machining Structural Material Process - Plate Blast & Prime Plate Blast & Prime Structural Material Process - Welding Charts Welding Charts Structural Material Process - Welding, Aluminum Welding Charts AL Welding Charts Structural Material Process - Welding, DH-36 SAW Weld Rates DH-36 SAW Weld Rates Structural Material Process - Welding, Robotic Welding Rates Robotic Welding Rates Structural Material Process - Welding, TIG Welding Rates TIG Welding Rates Structures, Air Cusion Vehicle SkirtsACV Skirts **ACV Skirt** Structures, Aluminum - Aluminum Plate Prices Composite Materials Prices Structures, Aluminum - Aluminum Plate Prices Aluminum Plate Prices Structures, Aluminum - Aluminum Plate Prices Aluminum Plate Prices B Structures, Aluminum - Aluminum Plate Prices AL Plate Price Charts Structures, Aluminum - Aluminum Plate Units of Measure AL Plate Price Charts Structures, Aluminum - General Info - Types of Aluminum Aluminum Info Structures, Blocks & Assemblies - Aluminum Block Structures Aluminum Metal Block Structures Structures, Blocks & Assemblies - Steel Block Structures Steel Metal Block Structures Structures, Blocks & Assemblies - Structure - Mild Steel Blocks Structure - Mild Steel Blocks Structures, Blocks & Assemblies - Structure Hull Distribution Structure Distribution Structures, Cold Molding - Cold Molding Cold Molding Structures, Composites - Composite Materials Prices Composite Materials Prices Structures, Composites - Composite Materials Prices StructuralMaterialPrices Structures, Composites - Composite Materials Prices Composite Equations Structures, Composites - Composite Materials Prices Composite Materials Structures, Composites - Composite Materials Prices Composite Graphs Structures, Composites - Composite Materials Prices Composites C (Calcs) Structures, Composites - Composite Structures Prices Composites A Structures, Composites - Composite Structures Prices Composites B Structures, Metals - Compare Metals Characteristics

Structures, Stainless Steel - Stainless Steel Plate Prices Stainless Steel Plate Prices

Structures, Metals - Compare Metals Prices

Structures, Metals - Weight & Labor Conversion Factors

Structures, Stainless Steel - Stainless Steel Plate Prices

Metals Charactreristics

Structural Material Costs

StructuralMaterialPrices

Structural Materials Conversion

New Construction CER Category

Structures, Steel - Steel Plate & Shapes Prices Structures, Steel - Steel Plate & Shapes Prices Structures, Steel - Steel Plate & Shapes Prices

Structures, Steel - Steel Plate Prices

Structures, Steel - Steel Plate Units of Measure

Structures, Titanium - Titanium Plate Prices Structures, Titanium - Titanium Plate Prices

Structures, Fixed BallastFixed Ballast Material

Tubing - Aluminum Tubing - Copper Tubing Specs

Worksheet Name (Hyperlinked)

StructuralMaterialPrices
Type Steel Price Index
Steel Plate & Shapes Prices
Steel Plate Prices
Metals Charactreristics

StructuralMaterialPrices Titanium Plate Prices

Fixed Ballast

Tubing - Aluminum
Tubing - Copper
Tubing Specs