

SPECIFICATIONS  
FOR THE  
CONSTRUCTION  
OF A  
**Single Screw Tanker**

---

DESIGN T2-SE-A1  
TUREO-ELECTRIC PROPULSION

---

Sun Hulls 241 to 312 Incl.  
Sun Hulls 313 to 322 Incl.  
Sun Hulls 330 to 334 Incl.  
Sun Hulls 335 to 339 Incl.

---

UNITED STATES MARITIME COMMISSION

Mr. ....

Copy No. ....

---

---

**SPECIFICATIONS  
FOR THE  
CONSTRUCTION  
OF A  
Single Screw Tanker**

---

**DESIGN T2-SE-A1  
TURBO-ELECTRIC PROPULSION**

---

**Sun Hulls 241 to 312 Incl.**

**Sun Hulls 313 to 322 Incl.**

**Sun Hulls 330 to 334 Incl.**

**Sun Hulls 335 to 339 Incl.**

---

**UNITED STATES MARITIME COMMISSION**

## INDEX

---

### A

	Page
Accommodation Ladder .....	35
Air Coolers for Propulsion Motor .....	58
Air Coolers for Turbo-Generator .....	58
Air Ducts .....	63
Air Ejector for Auxiliary Condenser .....	60
Air Ejectors for Main Condenser .....	59
Airports .....	28
Air System, Compressed .....	92
Alarm, General .....	118
Alarm System, Lubricating Oil .....	122
Ammunition Chambers .....	18
Anchor Chain .....	50
Anchors .....	50
Anchor Stowage .....	39
Annealing .....	15
Articles, Proprietary .....	2
Auxiliary Condenser .....	60
Auxiliary Condenser, Air Ejector .....	60
Auxiliary Exhaust Line .....	84
Auxiliary Generating Sets .....	60
Auxiliary Generator and Distribution Switchboard..	111
Auxiliary Steam Lines .....	82
Auxiliary Turbine Generator Sets .....	109
Awnings .....	37

### B

Bake Oven .....	47
Ballast and Fire Pump .....	89
Bearing, Thrust .....	56
Beds .....	43
Bell, Ship .....	37
Bell, Watch .....	38
Berths .....	43
Bilge System .....	88
Bilge System, Machinery Space .....	87
Bins .....	49
Bits .....	23
Bituminous Coatings .....	22

## ii

	Page
Bleeder Plugs .....	24
Blowers, Ventilation .....	33
Boat Blocks .....	34
Boats .....	34
Boatswain's Chairs .....	53
Boatswain's Stores .....	51
Boiler Feed System .....	85
Boiler Room Ventilating Fan .....	63
Boilers .....	60
Bookcases .....	44
Booms, Cargo .....	29
Boot-topping .....	21
Bulwarks .....	17
Butter Locker .....	49

## C

Cabinets, File .....	45
Cabinets, Medicine .....	46
Cables .....	50
Canvas .....	52
Canvas Covers .....	52
Canvas Weather Screens .....	52
Capacities .....	4
Cargo Booms .....	30
Cargo Oil Piping .....	99
Cargo Oil Tank Heating System .....	97
Cargo Heating Coil Drain Tank .....	98
Carpenter Shop .....	50
Caution Boards .....	38
Cementing .....	22
Certifications .....	5
Chafing Irons .....	22
Chain, Anchor .....	50
Chain Hooks .....	53
Chains, Guard .....	37
Chairs .....	44
Chairs, Boatswain's .....	53
Chest, First Aid .....	45
Chest, Medicine .....	46
Chocks .....	23
Classification .....	6
Cleats .....	24

	Page
Clocks .....	51
Coat and Hat Hooks .....	42
Coffee Urns .....	47
Cold Storage Rooms .....	48
Colors, Finish .....	42
Compasses .....	51
Compressed Air System .....	92
Condenser, Auxiliary .....	60
Condenser, Main .....	59
Consumable Stores .....	12
Contract Plans .....	2
Control, Motors and .....	113
Control, Motors and (Table) .....	113-114-115
Control, Propulsion .....	109
CO <sub>2</sub> Fire Extinguishing System .....	100
Cowls .....	31
Crew's Pantry .....	47
Cup Racks .....	47

## D

Davits .....	34
Davits, Oil Hose .....	38
Deadlights .....	28
Deadweight .....	4
Deck Coverings .....	39
Deck Erection and Steel Enclosures .....	17
Deck Foundations .....	23
Deck Machinery .....	101
Deck Machinery, General .....	101
Deck Outfit .....	52
Deck Winches .....	102
Degaussing .....	122
Desks .....	43
Desuperheater (External Type) .....	66
Dimensions .....	3
Direction Finder, Radio .....	121
Dish Racks .....	47
Dodgers, Navigating Bridge .....	19
Doors, Joiner, Interior .....	41
Doors, Joiner, Outside .....	41
Doors, Pump Room .....	18
Doors, Refrigerated Space .....	49

	Page
Doors, Screen .....	41
Doors, Watertight .....	27
Double Bottom, Machinery Space .....	17
Dough Trough .....	47
Draft Marks .....	38
Drain Pots .....	25
Drain System .....	85
Dressers .....	45
Drinking Fountains .....	47
Drinking Water System .....	89
Ducts, Air .....	63

## E

Electric Fans (Bracket) .....	118
Electrical Distribution System (Diagram) .....	124
Electrical Spares .....	123
Electrical Specifications .....	106
Electrical Specifications, General .....	107
Engine Direction Indicator (Plant Mills) .....	120
Engine Room Store Room .....	96
Engine Room Ventilating Fan .....	63
Ensign Staff .....	31
Equipment Furnished to Contractor .....	9
Equipment, Galley .....	46
Equipment, Pantry .....	46
Evaporating System .....	93
Exhauster System, Gland Steam .....	84
Exhaust Line, Auxiliary .....	84

## F

Fairleads .....	23
Fan, Boiler Room Ventilating .....	63
Fan, Engine Room Ventilating .....	63
Fans, Electric (Bracket) .....	118
Fans, Forced Draft .....	63
Fathometer .....	120
Fathometer Compartment .....	17
Faying Surfaces .....	20
Feed, Boiler .....	85
File Cabinets .....	45
Finish Colors .....	42
Fire Extinguishing System, CO <sub>2</sub> .....	100
Fire Hose .....	53

	Page
Oil Tanks, Lubricating, Etc. ....	97
Oil Tight Hatches .....	26
Oven, Bake .....	47
Oven, Roast .....	47

## P

Pad Eyes .....	24
Painter's Stages .....	53
Painting .....	20-22
Painting .....	97
Painting, Cofferdams .....	21
Painting, Exterior .....	22
Painting, Interior .....	42
Painting, Preparation of Surfaces for .....	20
Painting, Priming Coat .....	21
Painting, Shell .....	21
Painting, Stern .....	21
Painting, Tank Top .....	22
Painting, Wood .....	22
Paint Room .....	49
Pantry, Crew's .....	47
Pantry Equipment .....	46
Pantry, Officers' .....	47
Particulars .....	3
Partitions .....	40
Partitions, Steel .....	17
Pipes, Soil .....	92
Piping, Cargo Oil .....	99
Piping Systems, Materials .....	73
Plans, Contract .....	1
Plans, Maintenance .....	6
Plans, Operation .....	7
Plans, Working .....	7
Plant Mills System .....	120
Plumbing and Plumbing Fixtures .....	93
Port Service Turbine Generator Set .....	110
Post Delivery Examination of Machinery .....	14
Potato Boxes .....	39
Power Transformers .....	110
Propeller .....	57
Propeller Shaft .....	56
Propeller Stowage .....	39

	Page
Fire System .....	87
First Aid Chest .....	45
Fixed Lights .....	28
Fixtures, Lights and .....	116
Fixtures, Plumbing .....	93
Flag Boards .....	52
Flag Locker .....	52
Flag Poles .....	31
Flags .....	52
Flood Lights .....	117
Fog Horn .....	51
Forced Draft Fans .....	63
Form, Hull .....	9
Frames, License .....	39
Framing .....	14
Freeboard .....	8
Freeboard Marks .....	38
Foundations, Deck .....	23
Foundations, Gun .....	18
Foundations, Machinery .....	17
Fountains, Drinking .....	47
Fuel Oil System .....	80
Furniture .....	43
Furniture, Chart Room .....	19

## G

Galley Equipment .....	46
Galley Sink .....	47
Galvanizing of Fittings .....	39
Gangway .....	36
Garbage Chute .....	39
Gear, Hoisting and Handling .....	94
Gear, Steering .....	103
General Alarm .....	118
General Clause .....	1
General Service System .....	89
Generating Sets, Auxiliary .....	60
Generator, Main Turbo .....	58
Generator, Propulsion .....	107
Generator Set, Port Service Turbine .....	110
Generator Sets, Auxiliary Turbine .....	109
Gland Steam Exhauster System .....	84



	Page
Grab Rods .....	46
Gratings .....	49
Guard Chains .....	37
Gun Foundations .....	18
Guys .....	30
Gyro Equipment .....	120

## H

Handling Gear, Hoisting and .....	94
Hardware .....	42
Hatches, Cargo .....	26
Hatches, Fuel Oil .....	26
Hatches, Watertight .....	26
Hawse Pipes .....	23
Hawsers .....	50
Heater, Water .....	47
Heating .....	33
Heating System .....	86
Heat Insulation .....	78
Hoisting and Handling Gear .....	94
Hose, Fire .....	53
Hose Mask .....	46
Hose Stowage .....	39
Hose, Wash Deck .....	53
Houses, Steel Deck .....	18
Hull Construction .....	14
Hull Fittings .....	38

## I

Inclined Ladders .....	35
Indicator, Engine Direction (Plant Mills) .....	120
Indicator, Rudder Angle .....	120
Indicator, Salinity .....	121
Indicator, Shaft Revolution .....	120
Inspections, Governmental .....	5
Inspections, Owner's Representative .....	5
Instruments .....	104
Insulation, Cold Storage Room .....	48
Insulation, Heat .....	78
Insulation, Temperature .....	40

## J

	Page
Jack Staff .....	31
Joiner Doors .....	41

## K

Kettle, Stock .....	47
Keyboards .....	42
Keys .....	42
King-posts .....	30

## L

Ladder, Accommodation .....	35
Ladders, Inclined .....	34
Ladders, Mast .....	30
Ladders, Vertical .....	34
Lamp Room .....	50
Life Preserver Racks .....	39
Lighting Transformers .....	111
Light, Loading .....	117
Lights and Fixtures .....	116
Lights, Flood .....	117
Lights, Running .....	117
Lines and Model Tests .....	9
Linings .....	40
Loading Lights .....	117
Locker, Butter .....	49
Locker, Dirty Clothes .....	39
Lockers, Clothes .....	43
Locks .....	42
Log, Taffrail .....	51
Lubricating Oil Alarm System .....	122
Lubricating Oil System .....	79
Lubricating Oil Tanks, Etc. ....	97

## M

Machinery, Deck .....	101
Machinery Foundations .....	17
Machinery, Propelling .....	55
Machinery Space Bilge System .....	87
Machinery Space Double Bottom .....	17

## viii

	Page
Main Condenser .....	59
Main Condenser, Air Ejectors .....	59
Main Propelling Motor .....	55
Main Propulsion Motors .....	59
Main Steam Line .....	82
Main Turbo-Generator .....	58
Manholes .....	27
Marking of Equipment .....	53
Marks, Draft .....	38
Marks, Freeboard .....	38
Mask, Hose .....	46
Masts .....	29
Materials of Piping Systems .....	67-68-69-70-71-72
Medicine Cabinets .....	46
Medicine Chest .....	46
Mirrors .....	46
Model Tests .....	9
Mooring Fittings .....	23
Mooring Pipes .....	23
Motor, Main Propelling .....	55
Motor, Main Propulsion .....	58
Motor, Propulsion .....	108
Motors and Control .....	113
Motors and Control (Table) .....	113-114-115
Multi-coupler System .....	121

## N

Name Boards .....	38
Name Plates .....	46
Name, Ship's .....	38
Navigating Bridge Bulwarks Windbreak .....	19
Navigating Bridge Deckhouse .....	18
Navigating Outfits .....	51
Non-Slip Treads .....	40
Notice Frames .....	46

## O

Officers' Pantry .....	47
Oil Alarm System, Lubricating .....	122
Oil Piping, Cargo .....	99
Oil System, Fuel .....	80
Oil System, Lubricating .....	79

**x**

	Page
Propelling Machinery .....	55
Propelling Motor, Main .....	55
Proprietary Articles .....	2
Propulsion Control .....	109
Propulsion Equipment, Turbine-Electric .....	107
Propulsion Generator .....	107
Propulsion Motor .....	108
Propulsion Motor, Air Coolers .....	59
Propulsion Motors, Main .....	58
Pump, Ballast and Fire .....	89
Pump Table .....	64-65

**R**

Racks, Cup .....	47
Racks, Dish .....	47
Radiators .....	33
Radio .....	121
Radio Direction Finder .....	121
Rails .....	36
Rails, Compass Platform .....	37
Rails, Storm .....	37
Range .....	46
Reels .....	50
Refrigerating Plant .....	91
Refrigerator .....	48
Revolution Indicator, Shaft .....	120
Rigging .....	30
Rigging, Grounding of .....	30
Rigging, Running .....	31
Rigging, Standing .....	30
Ring Bolts .....	24
Ring Pads .....	39
Roast Oven .....	47
Rudder and Carrier .....	16
Rudder Angle Indicator .....	120
Running Lights .....	117

**S**

Safe .....	46
Safety Screen .....	26
Salinity Indicator .....	121
Salt Water Service .....	91

	Page
Sanitary System .....	90
Schedules of Valves .....	74-75-76-77
Screen Doors .....	41
Screens, Airport .....	29
Screens, Ventilation .....	33
Scuppers .....	25
Scuttle Butt .....	49
Searchlight .....	118
Service, Salt Water .....	91
Service System, General .....	89
Settees .....	43
Shaft, and Thrust Bearing .....	56
Shaft Horsepower .....	4
Shaft, Propeller .....	56
Shaft Revolution Indicator .....	120
Sheathing .....	40
Sheer .....	3
Shelving .....	49
Ship's Bell .....	37
Ship's Name .....	38
Shop, Carpenter .....	50
Signalling Arrangements .....	122
Signal Yard .....	30
Sill Heights .....	40
Sink, Galley .....	47
Skylights .....	27
Slop Chest .....	50
Smothering System, Steam .....	100
Soil Pipes .....	92
Sounding Lines .....	53
Sounding Machine .....	51
Sounding Plugs .....	26
Spare Parts and Tools .....	105
Spares, Electrical .....	123
Speed .....	4
Stack .....	63
Stages, Painter's .....	53
Stairways .....	35
Stanchions .....	36-37
Stays .....	30
Steam, Gland Exhauster System .....	84
Steam Line, Main .....	82

	Page
Steam Lines, Auxiliary .....	82
Steam Smothering System .....	100
Steering Gear .....	103
Stem .....	15
Stern Frame .....	15
Stern Tube .....	57
Stock Kettle .....	47
Store Room, Engine Room .....	96
Store Rooms .....	49
Stores, Consumable .....	12
Storm Oil Tank .....	38
Storm Rails .....	37
Stowage, Anchor .....	39
Stowage, Butterworth Machines .....	39
Stowage, Hose .....	39
Stowage, Propeller .....	39
Surveys .....	5
Swash Plates .....	15
Switchboard, Auxiliary Generator and Distribution.	111

## T

Table, Chopping .....	49
Tables .....	44
Tables, Dressing .....	45
Tables, Serving .....	45
Taffrail Log .....	51
Tanks, Lubricating Oil, etc. ....	97
Tank Venting System .....	99
Tank Washing System .....	101
Telegraphs .....	118
Telephones .....	118
Tests .....	13
Thrust Bearing and Shaft .....	56
Toilet Paper Holders .....	46
Tonnage Opening Plates .....	28
Tools, Work Shop .....	95
Towel Racks .....	46
Towing Hook .....	24
Tracings .....	6
Transformers, Lighting .....	111
Transformers, Power .....	110
Treads, Non-slip .....	40

	Page
Trials .....	12
Trim .....	8
Tube, Stern .....	57
Tubes, Voice .....	123
Turbine-Electrical Propulsion Equipment .....	107
Turbine Generator Set, Port Service .....	110
Turbine Generator Sets, Auxiliary .....	109
Turbo-Generator, Air Coolers .....	58
Turbo-Generator, Main .....	58

### U

Ullage Plates .....	26
Ullage Plate Screen Carrier .....	39
Uptake and Stack .....	63
Urns, Coffee .....	47
Utility Box, Refrigerated Space .....	49

### V

Valves, Schedules of .....	74-75-76-77
Vegetable Boxes .....	39
Ventilating Fan, Boiler Room .....	63
Ventilating Fan, Engine Room .....	63
Ventilation Blowers .....	33
Ventilation, Mechanical .....	33
Ventilation, Natural .....	31
Ventilation Screens .....	32
Venting System, Tank .....	99
Vertical Ladders .....	34
Visor .....	19
Voice Tubes .....	123

### W

Walkway .....	25
Wardrobes .....	43
Warps .....	50
Washing System, Tank .....	101
Wash Water System .....	90
Watch Bell .....	37
Water Heater .....	47
Water System, Drinking .....	89
Water System, Wash .....	90
Weather Screens, Canvas .....	52

	Page
Welding .....	14
Whistle and Pulls .....	119
Winches, Deck .....	102
Windbreaks, Navigating Bridge .....	19
Windlass .....	102
Window Wiper .....	19
Windscoops .....	29
Wiring .....	116
Work Shop Tools .....	95

**Z**

Zinc Plates .....	16
-------------------	----