

A	B	E	F	G	H
Approved Standards	Reg cite	Approved Equipment	Instructional Materials	Markings	Records of Product Testing
Equipment Type		2015	2015	2015	2015
Summary					
Part 159- Marine Sanitation Devices - Total		433	433	433	0
Part 160- Lifesaving Equipment - Total		1,497	1,497	1,497	1,077
Part 161- Electrical Equipment - Total		150	150	150	90
Part 162 - Engineering Equipment - Total		300	300	300	233
Part 163 - Construction - Total		5	5	5	0
Part 164 - Materials - Total		413	413	413	263
Part 165 - Navigation (NVIC 8-01 change 2) - Total		73	73	73	72
GRAND TOTAL		2,871	2,871	2,871	1,735
Details					
Part 159- Marine Sanitation Devices					
Marine Sanitation Device	33 CFR 159.15	433	433	433	
Total – Marine Sanitation Devices		433	433	433	0
Part 160- Lifesaving Equipment					
Automatic Disengaging Device	46 CFR 160.070				
Automatic Disengaging Device (SOLAS)	160.170	1	1	1	1
Balsa Wood Life Preserver	160.004	0	0	0	
Buoyant Apparatus for Merchant Vessels	160.010	48	48	48	48
Cleaning Process for Life Preservers	160.006	0	0	0	
Combination Flare and Smoke Distress Signal	160.023	0	0	0	
Cork Life Preserver	160.003	0	0	0	
Davit for Merchant Vessels	160.032	5	5	5	5
Embarkation Ladder	160.017	3	3	3	3
Embarkation Ladder (SOLAS)	160.117	5	5	5	5
Emergency Drinking Water	160.026	9	9	9	9
Emergency Fishing Tackle Kit	160.061	2	2	2	
Emergency Provisions for Merchant Vessels	160.046	12	12	12	

Approved Standards	Reg cite	Approved Equipment	Instructional Materials	Markings	Records of Product Testing
Emergency Signaling Mirror	160.020	4	4	4	4
Evacuation Slide for Domestic Service	160.075	5	5	5	5
Exposure Suit	160.071	0	0	0	
Fibrous Glass Life Preserver - Jacket Type	160.005	0	0	0	
First-Aid Kit for Inflatable Life rafts	160.054	5	5	5	
Flame Safety Lamp for Merchant Vessels	160.016	0	0	0	
Float-Free Link for Life Floats & Bouyant Apparatus	160.073	0	0	0	
Floating Orange Smoke Distress Signal	160.057	2	2	2	2
Floating Orange Smoke Distress Signal (SOLAS)	160.157	2	2	2	2
Floating Orange Smoke Signal	160.022	4	4	4	
Gas Mask/Self-Contained Breathing Apparatus	160.011	0	0	0	
Hand Orange Smoke Distress Signal	160.037	3	3	3	
Hand Red Flare Distress Signal	160.021	5	5	5	5
Hand Red Flare Distress Signal (SOLAS)	160.121	2	2	2	
Hand-Held Rocket Propelled Red Parachute Flare	160.136	3	3	3	3
Hand-Held Rocket-propelled Parachute Red Flare	160.036	2	2	2	2
Hatchet (Lifeboat and Liferaft)	160.013	1	1	1	
Hybrid Inflatable Personal Floatation Device	160.077	2	2	2	2
Hydraulic Release for Lifesaving Equipment	160.062	6	6	6	
Hydraulic Release Unit (SOLAS)	160.162	7	7	7	
Immersion Suit (SOLAS)	160.171	40	40	40	40
Inflatable Life Raft (SOLAS)	160.151	113	113	113	113
Inflatable Lifejacket (SOLAS)	160.176	0	0	0	
Inflatable Liferaft	160.051	24	24	24	24
Jackknife (with Can Opener)	160.043	2	2	2	
Kapok Buoyant Vest	160.047	0	0	0	
Kapok Life Preserver	160.002	2	2	2	
Kapok or Fibrous Glass Buoyant Cushion	160.048	0	0	0	
Launching Appliance - Davit	160.132	84	84	84	

Approved Standards	Reg cite	Approved Equipment	Instructional Materials	Markings	Records of Product Testing
Launching Appliance - Winch	160.115	60	60	60	
Life Float for Merchant Vessels	160.027	14	14	14	14
Life Raft for Merchant Vessels	160.018	1	1	1	1
Lifeboat (SOLAS)	160.135	38	38	38	38
Lifeboat Bilge Pump	160.044	3	3	3	
Lifeboat Compass	160.014	4	4	4	
Lifeboat First Aid Kit	160.041	7	7	7	
Lifeboat for Merchant Vessels	160.035	4	4	4	
Lifeboat Hand Propelling Gear	160.034	0	0	0	
Lifeboat Mechanical Disengaging Apparatus	160.033	2	2	2	
Lifeboat Release Mechanism (SOLAS)	160.133	44	44	44	
Lifeboat Sea Anchor	160.019	1	1	1	
Lifeboat Winch for Merchant Vessels	160.015	0	0	0	
Lifejacket (SOLAS)	160.155	12	12	12	
Liferaft Launching Appliance	160.063	0	0	0	0
Liferaft Launching Appliance (SOLAS)	160.163	0	0	0	0
Line Throwing Appliance	160.040	1	1	1	1
Marine Buoyant Device	160.064	549	549	549	549
Marine Evacuation System (SOLAS)	160.175	5	5	5	
Orange Flag Distress Signal for Boats	160.072	1	1	1	
Pistol-Projected Parachute Red Flare	160.024	0	0	0	
Plastic Foam Buoyant Cushion	160.049	1	1	1	
Protective Cover for Lifeboats	160.065	0	0	0	
Recreational Inflatable Personal Flotation Device	160.076	116	116	116	116
Red Aerial Pyrotechnic Flare Distress Signal	160.066	5	5	5	5
Rescue Boat (SOLAS)	160.156	28	28	28	
Rigid Liferaft (SOLAS)	160.118	1	1	1	
Ring Life Buoy (Cork or Balsa Wood)	160.009	0	0	0	
Ring Lifebuoy (SOLAS)	160.150	19	19	19	

Approved Standards	Reg cite	Approved Equipment	Instructional Materials	Markings	Records of Product Testing
Sea Water Desalter Kit for Merchant Vessels	160.058	2	2	2	
Shoulder Gun Type Line Throwing Appliance	160.031	2	2	2	2
Signal Pistol for Red Flare Distress Signals	160.028	4	4	4	4
Thermal Protective Aid (SOLAS)	160.174	4	4	4	
Three Minute Orange Smoke Signal (SOLAS)	160.122	3	3	3	
Unicellular Plastic Foam Buoyant Vest	160.052	0	0	0	0
Unicellular Plastic Foam Life Preserver	160.055	62	62	62	62
Unicellular Plastic Foam Work Vest	160.053	24	24	24	
Unicellular Plastic Life Ring Buoy	160.050	65	65	65	
Unicellular Polyethylene Foam Buoyant Vest	160.060	12	12	12	12
Water Spray Nozzle (1-1/2 inch Fixed Type)	160.025	0	0	0	
Total – Lifesaving Equipment		1,497	1497	1,497	1,077
Part 161- Electrical Equipment					
Electric Automatic Floating Water Light	161.001	0	0	0	
Electric Distress Light for Boats	161.013	0	0	0	
Electric Hand Flashlight	161.008	0	0	0	
Emergency Position Indicating Radio Beacon	161.011	11	11	11	11
Fire Protective System	161.002	22	22	22	22
Floating Electric Water Light	161.010	7	7	7	
Floating Electric Water Light (SOLAS)	161.110	4	4	4	
Lifejacket Light (SOLAS)	161.112	44	44	44	44
Motor Lifeboat Searchlight	161.006	0	0	0	
Personal Flotation Device Light	161.012	49	49	49	
Position Indicating Light (SOLAS)	161.101	13	13	13	13
Sound Powered Telephone System	161.005	0	0	0	
Total – Electrical Equipment		150	150	150	90
Part 162 - Engineering Equipment					
Backfire Flame Arrester (for Carburetors)	162.015	0	0	0	
Backfire Flame Arrester for Gasoline Engines	162.041	0	0	0	

Approved Standards	Reg cite	Approved Equipment	Instructional Materials	Markings	Records of Product Testing
Backfire Flame Control; Fuel Induction System	162.042	0	0	0	
Boiler Feed Regulators and Low Water Alarms	162.024	0	0	0	
Carbon Dioxide Type Fire Extinguisher	162.030	0	0	0	
Carbon Dioxide Type Fire Extinguishing System	162.038	6	6	6	
Combination Fire Hose Nozzle	162.027	8	8	8	
Engineered Halocarbon Fire Extinguishing System	162.161	14	14	14	14
Engineered Inert Gas Fire Extinguishing System	162.162	2	2	2	2
Fixed Fire Extinguishing System	162.029	20	20	20	20
Foam Type Fire Extinguishing System	162.033	18	18	18	18
Halon 1301 Type Fire Extinguishing System	162.035	0	0	0	0
Heating Boiler	162.003	0	0	0	0
Incinerator	162.063	52	52	52	
Liquefied Compressed Gas Liquid Level Gage	162.019	0	0	0	
Liquefied Compressed Gas Safety Relief Valve	162.018	12	12	12	12
Liquified Petroleum Gas Consuming Appliance	162.020	0	0	0	
Oil Pollution Prevention Equipment	162.050	120	120	120	120
Oil Water Interface Detector	162.055	5	5	5	5
Packaged Automatically Controlled Auxiliary Boiler	162.026	0		0	
Portable Foam Applicators (SOLAS)	162.163	1	1	1	1
Power Boiler	162.002	0	0	0	
Pressure-Vacuum Relief Valves for Tank Vessels	162.017	29	29	29	29
Relief Valve (Hot Water Heating Boilers)	162.013	0	0	0	
Safety Valve (Power Boilers)	162.001	0	0	0	
Safety Valve (Steam Heating Boilers)	162.012	0	0	0	
Secondary Type Boiler Water Level Indicator	162.025	0	0	0	
Semiportable Dry Chemical Fire Extinguisher	162.032	0	0	0	
Semiportable Marine Type Fire Extinguisher	162.039	0	0	0	
Ship's Whistle/Sound Signaling Appliance	162.044	0	0	0	
Tank Vent Flame Arresters	162.016	0	0	0	

Approved Standards	Reg cite	Approved Equipment	Instructional Materials	Markings	Records of Product Testing
Water Mist Fire Extinguishing System	162.135	12	12	12	12
Water Spray Type Fire Extinguishing System	162.036	1	1	1	
Total – Engineering Equipment		300	300	300	233
Part 163 - Construction					
Pilot Hoist	163.002	0	0	0	
Pilot Ladder	163.003	5	5	5	
Total - Construction		5	5	5	
Part 164 - Materials					
Bedding Components	164.142	9	9	9	
Bulkhead Panels	164.008	1	1	1	1
Bulkhead Panels (IMO)	164.108	5	5	5	
Combustible Insulation for Cold Service Piping	164.143	0	0		
Deck Assembly	164.005	0	0		
Deck Assembly (IMO)	164.105	4	4	4	
Deck Covering for Merchant Vessels	164.006	0	0	0	
Draperies, Curtains & Other Suspended Textiles	164.111	0	0	0	
Fiber-Reinforced Plastic Grating	164.040	9	9	9	
Fire Dampers	164.139	6	6	6	6
Fire Door Control Systems (IMO)	164.146	0	0	0	
Fire Doors A-Class (IMO)	164.136	60	60	60	60
Fire Restricting Materials for High Speed Craft	164.201	1	1	1	
Fire-Resisting Division for High Speed Craft	164.207	1	1	1	
Floor Coverings (IMO)	164.117	26	26	26	
Interior Finish	164.012	19	19	19	19
Interior Finish (IMO)	164.112	105	105	105	105
Non-Combustible Material	164.009	1	1	1	1
Non-Combustible Material (IMO)	164.109	43	43	43	43
Penetration Seals A-Class	164.138	20	20	20	
Penetration Seals H-Class	164.140	8	8	8	

Approved Standards	Reg cite	Approved Equipment	Instructional Materials	Markings	Records of Product Testing
Plastic Piping Systems	164.141	29	29	29	
Primary Deck Coverings (IMO)	164.106	20	20	20	
Retroreflective Material	164.018	10	10	10	
Structural Ceiling (IMO)	164.110	2	2	2	
Structural Ceiling	164.010	0	0	0	
Structural Insulation	164.007	3	3	3	3
Structural Insulation A-Class (IMO)	164.107	16	16	16	16
Upholstered Furniture	164.144	6	6	6	
Windows A-Class (IMO)	164.137	9	9	9	9
Total - Materials		413	413	413	263
Part 165 - Navigation (NVIC 8-01 change 2)					
Auto-Tracking Aid	165.111	0	0	0	0
Automatic Identification System (AIS)	165.155	3	3	3	3
Automatic Identification System (AIS-B/CS)	165.156	13	13	13	13
Automatic Radar Plotting Aid	165.120	0	0	0	0
Automatic Steering Aid for High Speed Craft	165.210	0	0	0	0
Bridge Navigational Watch Alarm System (BNWAS)	165.142	14	14	14	14
Chart Facilities for Shipborne Radar	165.122	0	0	0	0
CHAYKA Equipment	165.136	0	0	0	0
Daylight Signaling Lamp	165.166	0	0	0	0
Differential Global Navigation Satellite System	165.133	0	0	0	0
Differential Global Position Equipment System	165.132	0	0	0	0
ECDIS Back-Up Equipment	165.124	6	6	6	6
Echo Sounding Equipment	165.107	1	1	1	1
Electronic Chart Display and Information System	165.123	19	19	19	19
Electronic Plotting Aid	165.121	0	0	0	0
Global Positioning System (GPS) Equipment	165.131	0	0	0	0
Global Positioning System (GPS) Equipment	165.130	0	0	0	0
Gyrocompass	165.103	0	0	0	0

Approved Standards	Reg cite	Approved Equipment	Instructional Materials	Markings	Records of Product Testing
Gyrocompass for High Speed Craft	165.203	0	0	0	0
Heading Control System	165.110	0	0	0	0
Heading Control System for High Speed Craft	165.210	1	1	1	
Integrated Bridge System	165.140	0	0	0	
Integrated Navigational System	165.141	0	0	0	
Long Range Identification and Tracking of Ships	165.207	5	5	5	5
Loran-C Equipment	165.135	0	0	0	
Magnetic Compass	165.101	0	0	0	
Night Vision Equipment for High Speed Craft	165.251	1	1	1	1
Radar Equipment with Automatic Radar Plotting Aid	165.115	0	0	0	
Radar Equipment with Automatic Radar Plotting Aid for High Speed Craft	165.216	0	0	0	
Radar Equipment with Automatic Tracking Aid	165.116	3	3	3	3
Radar Equipment with Automatic Tracking Aid for High Speed Craft	165.217	0	0	0	
Radar Equipment with Automatic Tracking Aid for High Speed Craft	165.219	0	0	0	
Radar Equipment with Electronic Plotting Aid	165.117	0	0	0	
Radar Equipment with Electronic Plotting Aid for High Speed Craft	165.218	0	0	0	
Radar Reflector	165.160	0	0	0	
Raster Chart Display System (RCDS)	165.125	4	4	4	4
Rate of Turn Indicating Device	165.106	0	0	0	
Simplified Voyage Data Recorder (SVDR)	165.151	2	2	2	2
Sound Reception System	165.165	1	1	1	1
Speed and Distance Indicating Device	165.105	0	0	0	0
Track Control	165.112	0	0	0	0
Transmitting Magnetic Heading Device	165.102	0	0	0	0
Voyage Data Recorder (VDR)	165.150	0	0	0	0
Total - Navigation		73	73	73	72

Approved Standards	Reg cite	Approved Equipment	Instructional Materials	Markings	Records of Product Testing
Grand Total		2,871	2,871	2,871	1,735

[1] The numbers were obtained from the following website, which lists all approved equipment under Subchapter Q: <http://cgmix.uscg.mil/Equipment/> .

Appendix B: Total Estimated Annual Burden on Industry

Distinct Respondents:	Equipment Manufacturers	497	
	Servicing Facilities	220	
	Independent Laboratories	237	
	Recognized Laboratories	4	
		958	Total

Reporting and recordkeeping

Category	Responses per year	Burden Hours/Response	Annual Hour Burden	Wage Rate	Annual Cost Burden
Approvals					
New Applications	87	2	174	\$86	\$14,964
Renewal Applications	575	0.5	288	\$86	\$24,768
Manufacturer Recordkeeping	2,871	0.17	489	\$44	\$21,516
Servicing Facility Recordkeeping	220	2	440	\$44	\$19,360
Servicing Facility Problem Reports	220	1	220	\$86	\$18,920
Instructional Materials					
New Equipment	44	8	352	\$86	\$30,272
Renewals	575	2	1,150	\$86	\$98,900
Packing	574,200	0.1	57,420	\$37	\$2,124,540
Markings					
New	14,355	0.1	1,436	\$37	\$53,132
Revisions	114,840	0.1	11,484	\$37	\$424,908
Production Tests and Laboratory Inspections					
Production Test Records	1,735	2	3,470	\$44	\$152,680
Laboratory Inspections	1,735	24	41,640	\$44	\$1,832,160
Independent and Recognized Laboratories					
Independent Laboratory Applications	2	4	8	\$86	\$688
Recognized Laboratory MOU Application	0.1	80	8	\$86	\$688
Recognized Laboratory MOU Updates	1	15	15	\$86	\$1,290
Totals	711,461		118,594		\$4,818,786

*Estimates may not sum due to rounding

Total

Total Respondents	958
Total Responses	711,461
Total Hour Burden	118,594
Total Cost Burden	\$4,818,786

*Estimates may not sum due to rounding

Appendix C: Estimated Annual Federal Government Cost

Category	Responses	Burden Hours/ Response	Annual Hours	Wage Rate	Annual Cost
Approvals					
New Equipment Application Reviews (including Instructional Materials)	87	24	2,088	\$94	\$196,272
Renewal Equipment Application Reviews (including Instructional Materials)	575	4	2,300	\$94	\$216,200
Lifesaving Device Service Records	2,200	0.05	110	\$67	\$7,370
Servicing Facility Problem Report Reviews	220	0.5	110	\$78	\$8,580
Production Tests and Laboratory Inspections					
Production Tests and Quality Control Procedures Monitoring (Onsite) Reviews	1	2,000	2,000	\$78	\$156,000
Production Tests and Quality Control Procedures Monitoring (via Independent Lab Reports) Reviews	1,735	2	3,470	\$94	\$326,180
Independent and Recognized Laboratories					
Independent Laboratory Application Reviews	2	2.5	5	\$94	\$470
Recognized Laboratory MOU Application Reviews	0.1	40	4	\$94	\$376
Recognized Laboratory MOU Application Update	1	35	35	\$94	\$3,290
Totals	4,821		10,122		\$914,738

*Estimates may not sum due to rounding

Total

Total Cost	\$914,738
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*Estimates may not sum due to rounding