Appendix A: Assumptions Driving Calculations

Subchapter	K Reg	T Reg	Title	Assumptions
				Recordkeeping
K	115.310		Certification expiration date stickers	The application of the stickers takes about 5 minutes (0.08 hrs.) and occurs every 3 years. All K vessels must do this. The work is done by an E1 - 5, outside government.
K	116.520		Emergency evacuation plan	Posting the plan is done once, by an O1/2 level individual, and takes 0.5 hrs. It only affects new K vessels.
K	116.530		Fire control plan	As above
K	116.610 (g)(4)		Ventilation ducts	Marking ventilation fire dampers is done once only and takes 10 minutes (0.17 hrs). It should only affect new K vessels and is performed by an E-1 - 5.
K	122,282		Logbook for vessels of >19.8 mtrs (65ft) with	Approximately 2 entries, each taking 1 minute (0.02 hrs), are made in the logbook every trip. Affected vessels make 1 trip per day and make trips on 75% of the year (274 days). Logbook
N.	122.282		overnight accomodation for >49 passengers	is maintained by an O-1/2
K	122.515		Passenger safety bill	Identical assumptions to 116.520
K, T	115.302	176.302	Certificates and Permits	It takes 10 minutes to post these. Posting is done once and is done by an E-1-5. All new T& K vessels must do this.
K, T	115.306	176.306	Stability letter	Posting takes 5 minutes. All other assumptions are as for 115.302 and 176.302, above.
K, T	115.710	176.710	Inspection and testing prior to hot work	The inspection, as well as the preparation of the certificate, takes 15 minutes. The work is performed by an O-3/4 level individual. All K & T vessels need this once per year.
K, T	115.810 (b)	176.810 (b)	Fire protection	The inspection occurs every 3 years. The inspection and preparation of the certificate require one hour for completion. All other assumptions are as for 115.710 and 176.710.
K, T	120.220 (d)	183.220 (d)	General safety provisions	Marking all electrical circuits and equipment takes 30 minutes, is performed once by an E-1 - 5, and affects all new K & T vessels.
K, T	121.420	184.420	Charts and nautical publications	Assembling all the necessary charts takes 2 hours and is performed annually. All K & T veseels require this and the work is performed by an O-1/2.
K, T	121.506	184.506	Emergency broadcast placard	Posting this takes 5 minutes and is done once by an E-1 - 5, for all new K and T vessels per year.
K, T	122.220	185.220	Records of a voyage resulting in a marine casualty	Data from MSMS show 181 and 525 marine casualties in 1998 for K & T vessels respectively. Maintaining and assembling records takes 1 hour per casualty. The work is done by an O-1/2.
K, T	122.280	105 200	000:11 1 16 6 :	Only 5% of K & T vessels regularly make foreign voyages. Approximately 2 entries, each taking 5 minutes (0.08 hrs), are made in the logbook every day on a voyage. Voyages are 7 days
к, і	122.280	183.280	Official logbook for foreign voyages	long and are undertaken 26 times per year. Logbook is maintained by an O-1/2.
K, T	122.340(c)		Vessels carrying vehicles	Assume 5% of new K&T carry vehicles. It takes 20 minutes for each one to post all the "No Smoking" signs. The work is done by an E-1 - 5.
K, T	122.402	185.402	Licenses	It takes 30 minutes to assemble licenses. The work is done by an O-1/2. All T&K vessels must do this once annually.
K, T	122.506	185.506	D	All K&T vessels have to do this before every trip. The announcement is made by an O-1/2. There is 1 trip made per day for 274 days of the year (non foreign voyages - 80% of pop'n).
Κ, 1	122.300	183.300	Passenger safety orientation	Vessels that regularly operate on foreign voyages make weekly trips for 26 weeks of the year. The announcement takes 2 minutes.
K, T	122.510	185.510	Emergency instructions	Mounting the instructions takes 5 minutes, is done once by all new K & T vessels and the work is done by an E-1 - 5.
K, T	122.514	185.514	Station bill	As for 122.510 and 185.510 above.
K, T	122.516	185.516	Life jacket placards	Posting life jacket placards takes 20 minutes. All other assumptions are as for 122.510 and 185.510 above.
K, T	122.518	185.518	Inflatable survival craft placards	Posting the placards takes 10 minutes. "X" have inflatable survival craft. All other assumptions are as for 122.510 and 185.510 above.
3	122.602	185.602	Hull markings	Making all the necessary hull markings takes 1 hour, is done once by an E-1 - 5 for all new K & T vessels.
K, T	122.604	185.604	Lifesaving equipment markings	Complying with all the requirements here takes 2 hours. All other assumptions are as for 122.602 and 185.602.
K, T	122.606		Escape hatches and emergency exits	Marking emergency exits and escape hatches takes 10 minutes. All other assumptions are as for 122.602 and 185.602.
K, T	122.608		Fuel shutoff valves	Marking fuel shutoff valves takes 15 minutes. All other assumptions are as for 122.602 and 185.602.
K, T	122.610	185.610	Watertight doors and watertight hatches	Marking watertight doors and hatches takes 10 minutes. All other assumptions are as for 122.602 and 185.602.
K, T	122,612		Fire protection equipment	Marking all fire protection equipment takes 2 hrs. All other assumptions are as for 122.602 and 185.602.
K, T	122.702	185.702		This is done once and is required of all new K & T vessels that have primary lifesaving equipment (survival craft). Assume the same proportion of new vessels have survival craft. The work is done by an O-1/2.
K, T	122.704 (c)	185.704(c)	Maintenance of falls	The information collection required - marking the falls- takes 5 minutes and must be performed every 2.5 years. The recordkeeping is done by an E-1 - 5 for all K & T vessels.
T	183.	320 (d) and (e)	Generators and motors	Attaching the nameplates to generators and motors takes 10 minutes per vessel. It is performed by an E-1 - 5 for all new T vessels and is done once per vessel. The report is made by an O-1/2.
				Reporting
K, T	115.105 (a)	176.105 (a)	How to obtain or renew	This takes 30 minutes, occurs every 3 yrs., is required for all K and T vessels and is performed by an O-1/2.
K, T	115.202		Permit to proceed	This takes 15 minutes. All K & T vessels do this once every other year. The application is filled out and submitted by an O-1/2.
K, T	115.204		Permit to carry Excursion Party	Assumptions identical to those of 115.202 and 176.202.
K, T	115.500 (a)		When required	This takes a 5 minute phone call every 3 years. All K & T vessels are required to do this. The call is made by an O-1/2.
K, T	115.612	176.612		All K&T vessels have to be drydocked for safety related repairs or load line examination approximately once every 6 years. The notice and plans are prepared and submitted by an O-1/2.
K, T	115.700	176.700	Permission for repairs and alterations	Submitting drawings etc. for alterations and repairs takes 30 minutes and occurs once every other year for all K and T vessels. The submission is performed by an O-1/2. Preparation and submission of plans takes 30 minutes.
K, T	115.704	176.704	Breaking of safety valve seals	Reporting takes 10 minutes and is necessary once every 10 years for all K & T vessels. The reporting is done by an O-1/2.
K, T	115.920 (c)	176.920(c)		80% of all K & T do not regularly make foreign voyages. Of these, 50% do make 1 foreign voyage per year and have to apply for exemption. The time requirement is 30 minutes and performed by an O-1/2.
K, T	115,930	176,930	Equivalents	Submitting the request for approval takes 15 minutes. All K & T vessels do this once per year. The submission is done by an O-1/2.
K, T	116,202		Plans and information required	Submitting all the necessary information takes I hour. All K & T vessels do this once. The individual who does this is an O-1/2.
K, T	116.330	177.330		Submitting the required documents takes 20 minutes and is required of all new K & T that are sailing vessels (1% =1.5). The submission occurs once and is performed by an O-1/2.
K, T	116.340	177,340	Alternate design considerations	Submission of the alternate design request takes 20 minutes, occurs once and 10% of all new K & T vessels will submit requests. The submission is done by an O-1/2.
K, T	122,208		Accidents to machinery	The report takes 10 minutes to prepare and submit. All K& T vessels do this once every other year. The submission is performed by an 0-1/2.
K, T	122,230		Report of an accident to an aid to navigation	Assumptions identical to those of 122.208 and 185.208.
, *	, .22.230	100.200	1 or an accracin to an aid to navigation	Assumptions inclined to those Or 122200 and Reporting Recordkeeping and Reporting
K, T	122.502	185.502	Crew and passenger list	Preparing and submitting the list takes 30 minutes. All K & T vessels do this prior to trips that meet certain criteria. Assume 50% of all K & T vessels need to do this 50 times per year. Submission is by an O-1/2.
K, T	122.503	185,503	Voyage plan	Sucurinstori is 0 and -1/2. Preparing and submitting the list takes 40 minutes. All other assumptions are as for 122.502 and 185.502 above.
				Preparing and submitting the list takes 5 minutes. All I K & T vessels do this prior to trips that meet certain criteria. Assume 50% of all K & T vessels need to do this 274 times per year.
K, T	122.504	185.504	Passenger count	Submission is by an O-1/2.

Appendix B: Annual Responses and Respondents

Reporting Requirements

Subchapter	K Reg	T Reg	Title	Responses
K, T	115.105 (a)		How to obtain or renew	2,110
K, T	115.202		Permit to proceed	3,165
K, T	115.204	176.204	Permit to carry Excursion Party	3,165
K, T	115.500 (a)		When required	2,110
K, T	115.612		Notice and plans required	1,055
K, T	115.700	176.700	Permission for repairs and alterations	3,165
K, T	115.704	176.704	Breaking of safety valve seals	633
K, T	115.920 (c)	176.920(c)	Exemption	633
K, T	115.930	176.930	Equivalents	6,329
K, T	116.202		Plans and information required	6,329
K, T	116.330	177.330	Sailing vessels	1
K, T	116.340	177.340	Alternate design considerations	14
K, T	122.208	185.208	Accidents to machinery	3,165
K, T	122.230	185.230	Report of an accident to an aid to navigation	3,165
Total Annual Resp	onses for this	s COI		35,036

Populations	
Category	Count
Total Population of K Vessels	427
Total Population of T Vessels	5,902
Total Existing Population	6,329
Annual New Entrants K Vessels	10
Annual New Entrants T Vessels	134
Total New Entrants	144
Largest Grouping of Existing Reporting Annua	6,329
Largest Grouping of New Reporting Annually	14
Total Annual Respondents for this COI	6,343

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Annual Respondents	6,343
Annual Responses	35,036

Appendix C: Industry Time and Costs by Section

				Time	Time		E	Annual time	Number of vessels	Total annual time	Standard	Associated	
Subchapter	K Reg	T Reg	Title	burden	burden	Frequency	Frequency (numeric)	burden/ vessel	affected	burden (hours)	Rate	Wage rate	Total time cost
				(minutes)	(hours)		(numeric)	(hours)	anecteu	burden (nours)	Kate	(\$/hour)	
					Recordkeeping								
K	115.310		Certification expiration date stickers			every 3 yrs.	3	0.03		12	E1/5	54	
K	116.520		Emergency evacuation plan	30		One time	1		New K		O1/2	87	\$435
K	116.530		Fire control plan	30		One time	1		New K		O1/2	87	
K	116.610 (g)(4)		Ventilation ducts	10	0.17	One time	1	0.17	New K	- 2	E1/5	54	\$90
			Logbook for vessels of >19.8 mtrs (65ft) with overnight								O1/2		
K	122.282		accomodation for >49 passengers	1		very trip	N/A		Some K	3,641		87	
K	122.515		Passenger safety bill	30		One time	1		New K	5	O1/2	87	
K, T	115.302		Certificates and Permits	10		One time	1		New K & T	24		54	
K, T	115.306	176.300		5		One time	1		New K & T	12		54	
K, T	115.710		Inspection and testing prior to hot work	15		As needed	N/A	00	All K & T	1,582		130	4=0.9000
K, T	115.810 (b)		Fire protection	60		every 3 years	3		All K & T	2,110		130	
K, T	120.220 (d)		General safety provisions	30		One time	1		New K & T	72		54	
K, T	121.420	184.420		120		Annual	1		All K & T	12,658	O1/2	87	
K, T	121.506		Emergency broadcast placard	5		One time	1		New K & T	12		54	
K, T	122.220		Records of a voyage resulting in a marine casualty	60		As needed	1		Some K & T	134		87	
K, T	122.280		Official logbook for foreign voyages	5		every voyage	N/A		Some K & T	9,599		87	
K, T	122.340(c)		Vessels carrying vehicles	20		One time	1		Some New K & T	2	E1/5	54	
K, T	122.402		Licenses	30			1		All K & T	3,165		87	
K, T	122.506	185.500	Passenger safety orientation	2	0.03 E	very trip	N/A	***	All K & T	55,139		87	\$4,797,073
K, T	122.510	185.510	Emergency instructions	5	0.08	One time	1		New K & T	12	E1/5	54	
K, T	122.514	185.514	Station bill	5	0.08	One time	1	0.08	New K & T	12		54	
K, T	122.516	185.510	Life jacket placards	20	0.33	One time	1	0.33	New K & T	48	E1/5	54	\$2,592
K, T	122.518	185.518	Inflatable survival craft placards	10	0.17	One time	1	0.17	New K & T	24	E1/5	54	\$1,296
K, T	122.602	185.602	Hull markings	60	1.00 C	One time	1	1.00	New K & T	144	E1/5	54	\$7,776
K, T	122.604	185.604	Lifesaving equipment markings	120	2.00 C	One time	1	2.00	New K & T	288	E1/5	54	\$15,552
K, T	122.606	185.600	Escape hatches and emergency exits	10	0.17	One time	1	0.17	New K & T	24	E1/5	54	\$1,296
K, T	122.608		Fuel shutoff valves	15	0.25	One time	1	0.25	New K & T	36	E1/5	54	\$1,944
K. T	122,610	185,610	Watertight doors and watertight hatches	10	0.17	One time	1	0.17	New K & T	24	E1/5	54	\$1,296
K, T	122.612	185.612	Pire protection equipment	120	2.00 C	One time	1	2.00	New K & T	288	E1/5	54	\$15,552
K. T	122,702		Maintenance	15		One time	1	0.25	Some new K & T	8	O1/2	87	\$735
K. T	122.704 (c)	185,704(c	Maintenance of falls	5	0.08 E	very 2.5 years	3	0.03	Some K & T	7	E1/5	54	\$375
Ť		183,320 (d) and (e	Generators and motors	10	0.17	One time	1	0.17	New T	22	E1/5	54	\$1,206
					Reporting						•		
K, T	115.105 (a)	176.105 (a	How to obtain or renew	30	0.50 F	every 3 yrs.	3	0.17	All K & T	1,055	O1/2	87	\$91,771
K, T	115,202		Permit to proceed	15		As needed	N/A		All K & T	16		87	
K, T	115.204		Permit to proceed Permit to carry Excursion Party	15		As needed	N/A		All K & T	158		87	4-30.77
K. T	115,500 (a)	176,500 (a		- 5		every 3 yrs.	3		All K & T	176		87	
K, T	115.612	176.612		30		Every 6 yrs.	6		All K & T	527		87	
K, T	115.700		Permission for repairs and alterations	30		As needed	N/A		All K & T	1,582		87	
K, T	115.704		Breaking of safety valve seals	10		As needed	N/A		All K & T	1,502		87	
K, T	115.920 (c)		Exemption	30		As needed	N/A		Some K & T	1,503		87	
K, T	115.930		Equivalents	15		As needed	N/A		All K & T	1,505		87	
K, T	116.202	177.202		60		One time	18/74		New K & T	144		87	
K, T	116.330		Sailing vessels	20		One time	1		Some new K & T	0.5		87	\$12,328
K, T	116.340	177.340		20		One time	1		Some new K & T	0.3	O1/2	87	
K, T	122,208	185.208		10		As needed	N/A		All K & T	527		87	
K. T	122.230		Report of an accident to an aid to navigation	10		As needed	N/A		All K & T	527		87	
K, 1	122.230	163.230	report of an accident to an aid to havigation		dkeeping and Rep		IN/A	0.08	All K & I	327	01/2		\$43,003
K. T	122,502	195 50	Crew and passenger list	30		All approp. trips	N/A	25.00	Some K & T	79,113	O1/2	87	\$6,882,788
K, I K. T	122.502		Crew and passenger list Voyage plan	40			N/A N/A		Some K & T	79,113	O1/2	87	\$6,882,788
K, T	122.503			40		All approp. trips	N/A N/A		Some K & T	105,483	O1/2	87	
K, 1	122.504	185.504	Passenger count	1 3	0.08[A	All approp. trips	N/A						
									Total Annual Hours	404,595	1	Total Cost	\$35,321,491

Appendix D: Total Estimated Annual Burden from Recordkeeping and Reporting on Industry

Annual Respondents	6,343
Annual Responses	35,036

	Hour Burden	Cost Burden
Recordkeeping	89,116	\$7,874,821
Reporting	6,248	\$543,574
Recordkeeping and Reporting	309,231	\$26,903,096
Total	404,595	\$35,321,491

Total Respondents	6,343
Total Responses	35,036
Total Hour Burden	404,595
Total Cost Burden	\$35,321,491

Appendix E: Government Time and Costs by Section

Subchapter	K Reg	T Reg	Title	Time burden (minutes)	Time burden (hours)	Frequency	Frequency (numeric)	Annual time burden/ vessel	Number of vessels affected	Total annual time burden (hours)	Standard Rate	Associated Wage Rate (\$/hour)	Total time cost
					ordkeeping					(nours)		(3/11041)	
K	115,310		Certification expiration date stickers	0		Every 3 years	3	0.00	All K	0	E1/5	39	
K	116.520		Emergency evacuation plan	30	0.50	One time	1	0.50	New K	5	O1/2	62	\$3
K	116.530		Fire control plan	5	0.08	One time	1	0.08	New K	1	O1/2	62	\$
K	116.610 (g)(4)		Ventilation ducts	0	0.00	One time	1	0.00	New K	0	E1/5	39	
			Logbook for vessels of >19.8 mtrs (65ft) with overnight										
K	122.282		accomodation for >49 passengers	0	0.00	Every trip	N/A	0.00	Some K	0	O1/2	62	
K	122,515		Passenger safety bill	0		One time	1		New K	0	O1/2	62	
K. T	115,302	176,302	Certificates and Permits	0		One time	1		New K & T	0	E1/5	39	
K, T	115,306	176,306	Stability letter	0	0.00	One time	1	0.00	New K & T	0	E1/5	39	
K, T	115.710	176.710	Inspection and testing prior to hot work	0	0.00	As needed	N/A		All K & T	0	O3/4	91	
K, T	115.810 (b)	176.810 (b)	Fire protection	0	0.00	Every 3 years	3	0.00	All K & T	0	O3/4	91	
K, T	120.220 (d)	183.220 (d)	General safety provisions	0	0.00	One time	1	0.00	New K & T	0	E1/5	39	
K, T	121.420	184.420	Charts and nautical publications	0	0.00	Annual	1	0.00	All K & T	0	O1/2	62	
K, T	121.506	184.506	Emergency broadcast placard	0	0.00	One time	1	0.00	New K & T	0	E1/5	39	
K, T	122.220	185.220	Records of a voyage resulting in a marine casualty	0	0.00	As needed	1	0.00	Some K & T	0	O1/2	62	
K, T	122.280	185.280	Official logbook for foreign voyages	0	0.00	Every voyage	N/A	0.00	Some K & T	0	O1/2	62	
K, T	122.340(c)	185.340(c)	Vessels carrying vehicles	0	0.00	One time	1	0.00	Some New K & T	0	E1/5	39	
K, T	122.402	185.402	Licenses	0	0.00	Annual	1	0.00	All K & T	0	O1/2	62	
K, T	122.506	185.506	Passenger safety orientation	0	0.00	Every trip	N/A	0.00	All K & T	0	O1/2	62	
K, T	122.510	185.510	Emergency instructions	0	0.00	One time	1	0.00	New K & T	0	E1/5	39	
K, T	122.514	185.514	Station bill	0	0.00	One time	1		New K & T	0	E1/5	39	
K, T	122.518		Inflatable survival craft placards	0	0.00		1		New T	0	E1/5	39	
K, T	122.516	185.516	Life jacket placards	0	0.00	One time	1		New K & T	0	E1/5	39	
K, T	122.602	185.602	Hull markings	0	0.00		1		New K & T	0	E1/5	39	
K, T	122.604			0	0.00		1		New K & T	0	E1/5	39	
K, T	122.606	185.606	Escape hatches and emergency exits	0		One time	1		New K & T	0	E1/5	39	
K, T	122.608	185.608	Fuel shutoff valves	0	0.00		1		New K & T	0	E1/5	39	
K, T	122.610	185.610	Watertight doors and watertight hatches	0	0.00		1		New K & T	0	E1/5	39	
K, T	122.612	185.612	Fire protection equipment	0	0.00		1		New K & T	0	E1/5	39	
K, T	122.702	185.702	Maintenance	0	0.00		1		Some new K & T	0	O1/2	62	
K, T	122.704 (c)		Maintenance of falls	0		Every 2.5 years	3		Some K & T	0	E1/5	39	
T		183.320 (d) and (e)	Generators and motors	1 0		One time	1	0.00	New T	0	E1/5	39	
			I		eporting				C				
K, T	115.105 (a)		How to obtain or renew	10		Every 3 yrs.	3		All K & T	352	O1/2	62	\$21,
K, T	115.202		Permit to proceed	5	0.08	As needed	N/A		All K & T	5	O1/2	62	\$
K, T	115.204		Permit to carry Excursion Party	3	0.08	As needed	N/A		All K & T	53	01/2	62	\$3,
K, T	115.500 (a)		When required	3	0.08	Every 3 yrs.	3		All K & T	176	01/2	62	\$10,9
K, T	115.612		Notice and plans required	30		Every 6 years	0		All K & T	527	01/2	62	\$32,
K, T	115.700 115.704		Permission for repairs and alterations	10			N/A N/A		All K & T	527	O1/2 O1/2	62	\$32,
K, T K. T	115.704 115.920 (c)	176.704 176.920(c)	Breaking of safety valve seals Exemption	10		As needed As needed	N/A N/A		All K & T Some K & T	3,006	O1/2	62	\$186.2
K, T	115.920 (c)	176.920(c)	Equivalents	10		As needed As needed	N/A N/A		All K & T	3,006	O1/2	62	\$180,.
K, T	116,202	177.202	Plans and information required	60		One time	IN/A		New K & T	114	O1/2	62	\$8.
K, T	116.202	177.330	Sailing vessels	20	0.33		1		Some new K & T	144	O1/2	62	\$0,
K, T	116.340	177.340	Alternate design considerations	20	0.00	One time	1		Some new K & T	5	O1/2	62	\$
K, T	116.340		Accidents to machinery	10	0.33		N/A		All K & T	527	O1/2	62	\$32.
K, I	122,230		Report of an accident to an aid to navigation	10			N/A		All K & T	527	O1/2	62	\$32,
Λ, Ι	122.230	165.230	report of an accident to an aid to navigation	Recordkeep	0.00		N/A	0.08	All K & I	327	01/2	62]	\$32,
K, T	122.502	105 502	Crew and passenger list	кесотикеер		All approp. trips	N/A	0.02	Some K & T	2,637	O1/2	62	\$163,
K, T	122.502	185.502	Voyage plan	1	0.02	All approp. trips All approp. trips	N/A N/A		Some K & T	2,637	O1/2	62	\$163,4
K, I K. T	122.503		Voyage pian Passenger count	1		All approp. trips All approp. trips	N/A N/A		Some K & T	24,927	O1/2	62	\$1,545,4
Λ, 1	122.304	163.304	r assenger count	1	0.02	гли арргор. итрs	N/A	4.15	Total Annual Hours	36,079	U1/2	Total Cost	\$1,545,4

Appendix F: Total Estimated Annual Federal Government Cost

Annual Respondents	6,343
Annual Responses	35,036

_	Hour Burden	Cost Burden
Recordkeeping	6	\$362
Reporting	5,872	\$364,049
Recordkeeping and Reporting	30,201	\$1,872,474
Total	36,079	\$2,236,884

Total Respondents	6,343
Total Responses	35,036
Total Cost	\$2,236,884