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.
К	122.282		Logbook for vessels of >19.8 mtrs (65ft) with overnight accomodation for >49 passengers	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 is maintained by an O-1/2
К	122.515		Passenger safety bill	Logoook is manamed by an 0-1/2 Identical assumptions to 116.520
K, T	115.302	176 302	Certificates and Permits	Interaction and a second se
K. T	115.306		Stability letter	Posting takes 5 minutes. All other assumptions are as for 115.302 and 176.302, above.
К, Т	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.
К, Т	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)		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		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.
К, Т	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.
К, Т	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.
К, Т	122.280	185.280	Official logbook for foreign voyages	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
К. Т	122.340(c)		Vessels carrying vehicles	days long and are undertaken 26 times per year. Logbook is maintained by an O-1/2. 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 K, T	122.340(c) 122.402		Vessels carrying vehicles Licenses	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. 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.
				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).
К, Т	122.506	185.506	Passenger safety orientation	All Kal Vessels have to do this before every thip. The announcement is made by an $O+1/2$. Interes is 1 thip made per day for $2/4$ days of the year (non-toreign voyages - 80% of pop h). Vessels that regularly operate on foreign voyages make weekly trips for 26 weeks of the year. The announcement takes 2 minutes.
К. Т	122.510	185,510	Emergency instructions	Vessis and regularly operate on roterga voyages made weekly injs to 2 o weeks on its year. The announcement acts 2 minutes. 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		Station bill	As for 122.510 and 185.510 above.
К, Т	122.516		Life jacket placards	Posting life jacket placards takes 20 minutes. All other assumptions are as for 122.510 and 185.510 above.
К, Т	122.518		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.
К, Т	122.606	185.606		Marking emergency exits and escape hatches takes 10 minutes. All other assumptions are as for 122.602 and 185.602.
К, Т	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		Watertight doors and watertight hatches	Marking watertight doors and hatches takes 10 minutes. All other assumptions are as for 122.602 and 185.602.
<u>К, Т</u> К. Т	122.612 122.702		Fire protection equipment	Marking all fire protection equipment takes 2 hrs. All other assumptions are as for 122.602 and 185.602. 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
*			Maintenance	work is done by an O-1/2.
К, Т	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. 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
Т	183.	320 (d) and (e)	Generators and motors	0-1/2.
К. Т	115.105 (a)	176 105 (a)	How to obtain or renew	Reporting 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 K, T	115.202		Permit to proceed	This takes 50 minutes, AUK & T vessels do this once every other year. The application is field out and submitted by an O-1/2.
K, T K. T	115.202		Permit to carry Excursion Party	Assumptions identical to those of 115.202 and 176.202.
К, Т	115.500 (a)	176.500 (a)		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.
К, Т	115.612		Notice and plans required	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
К, Т	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.
К, Т	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.
К, Т	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	177.202	Plans and information required	Submitting all the necessary information takes 1 hour. All K & T vessels do this once. The individual who does this is an O-1/2.
Κ, Τ	116.330		Sailing vessels	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		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 O-1/2.
K, T	122.230	185.230	Report of an accident to an aid to navigation	Assumptions identical to those of 122.208 and 185.208. Recordkeeping and Reporting
К, Т	122.502		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 0-1/2.
К, Т	122.503	185.503	Voyage plan	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 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.
К, Т	122.504	185.504	Passenger count	Preparing and submitting the list takes 5 minutes. All K & 1 vessels do this prior to trips that meet certain criteria. Assume 50% of all K & 1 vessels need to do this 2/4 times per year. Submission is by an O-1/2.

Appendix B: Annual Responses and Respondents

Reporting Requirements

Subchapter	K Reg	T Reg	Title	Responses
К, Т	115.105 (a)	176.105 (a)	How to obtain or renew	2,085
К, Т	115.202	176.202	Permit to proceed	3,128
К, Т	115.204	176.204	Permit to carry Excursion Party	3,128
К, Т	115.500 (a)	176.500 (a)	When required	2,085
К, Т	115.612		Notice and plans required	1,043
К, Т	115.700	176.700	Permission for repairs and alterations	3,128
К, Т	115.704		Breaking of safety valve seals	626
К, Т	115.920 (c)	176.920(c)		626
К, Т	115.930	176.930	Equivalents	6,255
К, Т	116.202	177.202	Plans and information required	6,255
К, Т	116.330	177.330	Sailing vessels	1
К, Т	116.340	177.340	Alternate design considerations	11
К, Т	122.208	185.208	Accidents to machinery	3,128
К, Т	122.230	185.230	Report of an accident to an aid to navigation	3,128
Total Annual Resp	onses for this	s COI		34,623

Populations

Category	Count
Total Population of K Vessels	413
Total Population of T Vessels	5,842
Total Existing Population	6,255

Annual New Entrants K Vessels	4
Annual New Entrants T Vessels	104
Total New Entrants	108

Largest Grouping of Existing Reporting Annua	6,255
Largest Grouping of New Reporting Annually	11
Total Annual Respondents for this COI	6,266

Annual Respondents	6,266
Annual Responses	34,623

Appendix C: Industry Time and Costs by Section

Subchapter	K Reg	T Reg	Title	Time burden (minutes)	Time burden (hours)	Frequency	Frequency (numeric)	Annual time burden/ vessel (hours)	Number of vessels affected	Total annual time burden (hours)	Standard Rate	Associated Wage rate (\$/hour)	Total time cost
				(minutes)	Recordkeeping	g		(nours)			1	(\$Pilour)	
K	115.310		Certification expiration date stickers		0.08	Every 3 yrs.	3	0.03	All K	11	E1/5	43	\$488
K	116.520		Emergency evacuation plan	30	0.50	One time	1	0.50	New K	2	O1/2	68	\$135
K	116.530		Fire control plan	30	0.50	One time	1	0.50	New K	2	O1/2	68	\$135
K	116.610 (g)(4)		Ventilation ducts	10	0.17	One time	1	0.17	New K	1	E1/5	43	\$28
			Logbook for vessels of >19.8 mtrs (65ft) with overnight								O1/2		1
K	122.282		accomodation for >49 passengers		0.02	Every trip	N/A	9.13	Some K	3,440	01/2	68	\$232,208
K	122.515		Passenger safety bill	30	0.50	One time	1	0.50	New K	2	O1/2	68	\$135
К, Т	115.302	176.302	2 Certificates and Permits	10	0.17	One time	1	0.17	New K & T	18	E1/5	43	\$765
К, Т	115.306	176.300	6 Stability letter		0.08	One time	1	0.08	New K & T	ç	E1/5	43	\$383
K, T	115.710	176.710	0 Inspection and testing prior to hot work	1:	0.25	As needed	N/A	0.25	All K & T	1,564	O3/4	102	\$158,721
К, Т	115.810 (b)	176.810 (b) Fire protection	60	1.00	Every 3 years	3	0.33	All K & T	2,085	O3/4	102	\$211,628
К, Т	120.220 (d)) General safety provisions	30		One time	1		New K & T	54		43	
К, Т	121.420	184.420		120		Annual	1		All K & T	12,510	O1/2	68	
К, Т	121.506		6 Emergency broadcast placard			One time	1		New K & T	9	E1/5	43	40.00
К, Т	122.220		0 Records of a voyage resulting in a marine casualty	60	1.00	As needed	1		Some K & T	143	O1/2	68	
К, Т	122.280		0 Official logbook for foreign voyages			Every voyage	N/A		Some K & T	9,487	O1/2	68	\$640,356
К, Т	122.340(c)		 Vessels carrying vehicles 	20		One time	1	0.33	Some New K & T	2	E1/5	43	
К, Т	122.402	185.402		30		Annual	1		All K & T	3,128	O1/2	68	4211,100
К, Т	122.506	185.500				Every trip	N/A		All K & T	54,494	O1/2	68	40,010,000
К, Т	122.510	185.510				One time	1		New K & T	9	E1/5	43	\$383
К, Т	122.514	185.514				One time	1		New K & T	9	E1/5	43	40.00
К, Т	122.516	185.510		20		One time	1		New K & T	36	E1/5	43	
К, Т	122.518	185.518		10	0.17	One time	1	0.17	New K & T	18	E1/5	43	\$765
K, T	122.602	185.602		60		One time	1		New K & T	108		43	
К, Т	122.604	185.604		120		One time	1		New K & T	216		43	47,100
K, T	122.606		6 Escape hatches and emergency exits	10		One time	1		New K & T	18		43	
K, T	122.608	185.608		1		One time	1		New K & T	27		43	\$1,148
K, T	122.610		0 Watertight doors and watertight hatches	10	0.17	One time	1		New K & T	18	E1/5	43	41.00
К, Т	122.612	185.612		120		One time	1		New K & T	216	E1/5	43	\$9,180
К, Т	122.702		2 Maintenance	1		One time	1		Some new K & T	6	O1/2	68	\$398
K, T	122.704 (c)		 Maintenance of falls 		0.08	Every 2.5 years	3	0.03	Some K & T	7	E1/5	43	
Т		183.320 (d) and (e	e) Generators and motors	10		One time	1	0.17	New T	17	E1/5	43	\$737
					Reporting								
K, T	115.105 (a)		How to obtain or renew	30		Every 3 yrs.	3		All K & T	1,043	O1/2	68	
K, T	115.202	176.202		1:		As needed	N/A		All K & T	16	O1/2	68	\$1,056
К, Т	115.204	176.204		1:		As needed	N/A		All K & T	156	O1/2	68	\$10,000
К, Т	115.500 (a)) When required			Every 3 yrs.	3		All K & T	174		68	\$11,728
K, T	115.612		2 Notice and plans required	30		Every 6 yrs.	6		All K & T	521	O1/2	68	
K, T	115.700		0 Permission for repairs and alterations	30		As needed	N/A		All K & T	1,564	O1/2	68	\$105,553
K, T	115.704	176.704		10		As needed	N/A		All K & T	10	O1/2	68	\$704
К, Т	115.920 (c)	176.920(c		30		As needed	N/A		Some K & T	1,486	O1/2	68	
K, T	115.930	176.930		1:		As needed	N/A		All K & T	16	O1/2	68	\$1,056
K, T	116.202	177.202		60		One time	1		New K & T	108	O1/2	68	<i>4.1</i> ,= <i>7.0</i>
K, T	116.330		0 Sailing vessels	20	0.000	One time	1		Some new K & T	0.4	O1/2	68	\$24
K, T	116.340		0 Alternate design considerations	20	0.000	One time	1		Some new K & T	4	O1/2	68	
K, T	122.208		8 Accidents to machinery	10		As needed	N/A		All K & T	521	O1/2	68	\$35,184
K, T	122.230	185.230	0 Report of an accident to an aid to navigation	10		As needed	N/A	0.08	All K & T	521	O1/2	68	\$35,184
				Record	lkeeping and R								
К, Т	122.502	185.502	2 Crew and passenger list	30		All approp. trips	N/A		Some K & T	78,188	O1/2	68	\$5,277,656
K, T	122.503		3 Voyage plan	4(All approp. trips	N/A		Some K & T	104,250	O1/2	68	41,000,010
К, Т	122.504	185.504	4 Passenger count		0.08	All approp. trips	N/A	20.73	Some K & T	123,178	O1/2	68	\$8,314,508
									Total Annual Hours	399,420		Total Cost	\$27,064,824

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

Annual Respondents	6,266
Annual Responses	34,623

_	Hour Burden	Cost Burden
Recordkeeping	87,665	\$6,021,379
Reporting	6,139	\$414,406
Recordkeeping and Reporting	305,615	\$20,629,039
Total	399,420	\$27,064,824

Total Respondents	6,266
Total Responses	34,623
Total Hour Burden	399,420
Total Cost Burden	\$27,064,824

Appendix E: Government Time and Costs by Section

Subchapter	K Reg	T Reg	Title	Time burden	Time burden	Frequency	Frequency (numeric)	Annual time burden/ vessel	Number of vessels affected	Total annual time burden	Standard Rate	Associated Wage Rate	Total time o
				(minutes)	(hours)		(numeric)	buruen/ vessei	affected	(hours)	Kate	(\$/hour)	
				Rec	ordkeeping	1							
K	115.310		Certification expiration date stickers	0	0.00	0 Every 3 years	3	0.00	All K	0	E1/5	36	ز
K	116.520		Emergency evacuation plan	30	0.50	One time	1	0.50	New K	2	O1/2	55	j.
K	116.530		Fire control plan	5	0.08	8 One time	1	0.08	New K	0	O1/2	55	j.
K	116.610 (g)(4)		Ventilation ducts	0	0.00	0 One time	1	0.00	New K	0	E1/5	36	j.
			Logbook for vessels of >19.8 mtrs (65ft) with overnight										1
ĸ	122.282		accomodation for >49 passengers	0	0.00	Every trip	N/A	0.00	Some K	0	O1/2	55	5
K	122.515		Passenger safety bill	0	0.00		1		New K	0	01/2	55	
K. T	115,302		Certificates and Permits	0	0.00		1		New K & T	0	E1/5	36	
K, T	115.302		Stability letter	0	0.00		1		New K & T	0	E1/5	36	
K, T	115.710	176.710	Inspection and testing prior to hot work	0	0.00		N/A		All K & T	0	03/4	81	5
K, T	115.810 (b)		Fire protection	0	0.00		19/74		All K & T	0	03/4	81	
K, T	120.220 (d)		General safety provisions	0	0.00		3		New K & T	0	E1/5	36	
K, I K. T	120.220 (d)		Charts and nautical publications	0	0.00		1		All K & T	0	O1/2	55	3
K, I K. T	121.420	184.420		0	0.00				All K & I New K & T	0	E1/5	36	
	121.506	184.506	Emergency broadcast placard	0	0.00		1			0		50	5
K, T			Records of a voyage resulting in a marine casualty	0	0.03		1		Some K & T	0	O1/2	55	
K, T	122.280		Official logbook for foreign voyages	0	0.00		N/A		Some K & T	0	O1/2	55	4
K, T	122.340(c)	185.340(c)	Vessels carrying vehicles	0	0.00		1		Some New K & T	0	E1/5	36	5
К, Т	122.402	185.402	Licenses	0	0.00		1		All K & T	0	O1/2	55	
К, Т	122.506		Passenger safety orientation	0	0.00		N/A		All K & T	0	O1/2	55	
К, Т	122.510		Emergency instructions	0	0.00		1		New K & T	0	E1/5	36	5
К, Т	122.514		Station bill	0	0.00		1		New K & T	0	E1/5	36	5
К, Т	122.518	185.518	Inflatable survival craft placards	0	0.00		1		New T	0	E1/5	36	j
К, Т	122.516		Life jacket placards	0	0.00	One time	1		New K & T	0	E1/5	36	j.
К, Т	122.602		Hull markings	0	0.00		1		New K & T	0	E1/5	36	ۇ
K, T	122.604	185.604	Lifesaving equipment markings	0	0.00	One time	1	0.00	New K & T	0	E1/5	36	ۇ
К, Т	122.606	185.606	Escape hatches and emergency exits	0	0.00	One time	1	0.00	New K & T	0	E1/5	36	ذ
K, T	122.608	185.608	Fuel shutoff valves	0	0.00	0 One time	1	0.00	New K & T	0	E1/5	36	j.
К, Т	122.610	185.610	Watertight doors and watertight hatches	0	0.00	One time	1	0.00	New K & T	0	E1/5	36	j.
К, Т	122.612	185.612	Fire protection equipment	0	0.00	One time	1	0.00	New K & T	0	E1/5	36	j.
K, T	122.702	185.702	Maintenance	0	0.00	One time	1	0.00	Some new K & T	0	O1/2	55	j
K, T	122.704 (c)	185.704(c)	Maintenance of falls	0	0.00	Every 2.5 years	3	0.00	Some K & T	0	E1/5	36	ć
T		183.320 (d) and (e)	Generators and motors	0	0.00	One time	1	0.00	New T	0	E1/5	36	i
				R	eporting								
К. Т	115.105 (a)	176.105 (a)	How to obtain or renew	10		7 Every 3 vrs.	3	0.06	All K & T	348	01/2	55	5
K.T	115.202		Permit to proceed	5	0.0		N/A		All K & T	5	01/2	55	
K. T	115.204		Permit to carry Excursion Party	5	0.00		N/A		All K & T	52	01/2	55	
K, T	115,500 (a)		When required	5	0.00		3		All K & T	174	01/2	55	-
K, T	115.612		Notice and plans required	30			6		All K & T	521	01/2	55	
K, T	115.700		Permission for repairs and alterations	10			N/A		All K & T	521	01/2	55	
K, T	115.704		Breaking of safety valve seals	10			N/A N/A		All K & T	10	01/2	55	
K, I K. T	115.920 (c)		Exemption	10			N/A N/A		Some K & T	2.971	01/2	55	
K, I K. T	115.920 (C)		Exemption Equivalents	10		7 As needed	N/A N/A		All K & T	2,971	01/2	55	- -
K, I K, T	115.930		Equivalents Plans and information required	60		One time	N/A		All K & I New K & T	10	01/2	55	
K, I K. T	116.202		Sailing vessels	20		3 One time	1		New K & I Some new K & T	108	01/2	55	
K, T K, T	116.330	177.340		20					Some new K & T Some new K & T	0	01/2	55	
/		177.340	Alternate design considerations							4			
K, T	122.208		Accidents to machinery	10		7 As needed	N/A		All K & T	521	01/2	55	-
К, Т	122.230	185.230	Report of an accident to an aid to navigation	10		7 As needed	N/A	0.08	All K & T	521	O1/2	55	1
				Recordkeep			1			1			
К, Т	122.502		Crew and passenger list	1		2 All approp. trips	N/A		Some K & T	2,606	O1/2	55	
К, Т	122.503	185.503	Voyage plan	1	0.02		N/A		Some K & T	2,606	O1/2	55	9
K, T	122.504	185 504	Passenger count	1 1	0.02	2 All approp. trips	N/A	4.15	Some K & T	24.636	O1/2	55	5 \$1.

Appendix F: Total Estimated Annual Federal Government Cost

Annual Respondents	6,266
Annual Responses	34,623

	Hour Burden	Cost Burden
Recordkeeping	2	\$128
Reporting	5,768	\$317,214
Recordkeeping and Reporting	29,848	\$1,641,644
Total	35,618	\$1,958,986

Total Respondents	6,266
Total Responses	34,623
Total Cost	\$1,958,986