Officer In Charge of a Navigational Watch
Work Processes Total 3,000 Hours

Reference Material: Coast Guard Model Course Outlines
International Maritime Organization Model Outcomes

Officer In Charge of a Navigational Watch – Sea Phase 1

TRB#	Task or Duty to be Performed	Hours
1.001	Steer ship by magnetic and gyro compasses	12
1.002	Carry out English-language helm orders	4
1.003	Change steering modes between hand and auto	4
1.004	Keep a proper lookout by sight and hearing	12
1.005	Properly handover and receive lookout watch	4
1.006	Properly handover and receive helm watch	4
1.007	Properly report alarms	4
1.008	Properly use standard and sound powered telephone systems	2
1.010	Properly comply with permit for enclosed space entry	12
1.011	Identify & record containers by markings and classes	12
1.012	Secure deck cargo [note also 2.110]	18
1.013	Take and record daily soundings of holds, double bottom tanks, bilges and Voids	12
1.014	Operate an oil/water interface detector	4
1.015	Set up deck for liquid cargo transfer operations, as per DOI	12
1.016	Inspect and record liquid cargo tank ullages and temperatures	12
1.017	Locate fire stations for drill scenarios	4
1.018	Simulate correct use of portable firefighting equipment during fire drills	4
1.019	Don sea survival aids for abandonment drills	2
1.020	Simulate basic first aid during casualty drills	8
1.021	Take on of fresh water	8
1.022	Keep a security deck watch	8
1.023	Conduct a thorough fire patrol while underway and in port	8
1.024	Demonstrate correct use and care of hand-held radios	4
1.025	Demonstrate correct use of Personal Protective Equipment	8
1.026	Identify hazards & precautions of products from MSDS information	8
1.027	Assist with maintenance of steel surfaces, including preparation, sealing, priming, coating	24
1.028	Correctly coil and throw a heaving line	4
1.029	Demonstrate skill in knots	8
1.030	Demonstrate skill in fiber rope splicing	8
1.031	Assist with mooring operations forward & aft	12
1.032	Assist with unmooring operations forward & aft	12
1.033	Inspect mooring lines, wires & gangway while vessel is docked	12
1.034	Hoist flags and shapes	2
1.035	Inspect pollution control equipment	8
1.036	Sea Project: Draw to scale: A plan of the navigation bridge showing position and name of equipment.	12
1.037	Sea Project: Draw to scale: Longitudinal section through center line showing & naming cargo holds (tanks), bunker tanks, ballast tanks, all other major compartments / spaces.	12

Sea Phase 1: Total Hours: 304

Officer In Charge of a Navigational Watch – Sea Phase 2

TRB#	Task or Duty to be Performed	Hours
2.001	Determine magnetic compass deviation	8
2.002	Determine magnetic compass error	4
2.003	Determine gyro compass error by bearing of range	4
2.004	Determine course to steer by magnetic compass	4
2.005	Use the compass record book	4
2.006	Set up and maintain radar display	24
2.007	Switch display modes	4
2.008	Identify false echoes, sea return, a racon and SART	4
2.009	Determine range and bearing	4
2.010	Determine risk of collision	8
2.011	Determine DRM, SRM, CPA, and TCPA	4
2.012	Detect speed and course changes of other ships	4
2.013	Change course to control target DRM	8
2.014	Change speed to control target DRM	8
2.015	Determine true course and speed of target vessels	8
2.016	Use parallel indexing techniques	12
2.017	Fix vessel's position by two radar ranges	8
2.018	Fix vessel's position by radar tangents from two or more identified objects	8
2.019	Fix vessel's position by two visual bearings	8
2.020	Plot the ship's estimated position (DR & EP)	8
2.021	Determine course to steer using set & drift	8
2.022	Position fix by magnetic compass bearings	8
2.023	Understand, use, and correct charts & pubs including Notice to Mariners, Sailing Directions, etc.	12
2.024	Calculate expected currents at critical points for an upcoming inbound or outbound passage	12
2.025	Calculate heights of tide at berth(s) for an upcoming port call	8
2.026	Make entries in the Bell Book	2
2.027	Make entries in the deck log book	4
2.028	Select charts needed for a voyage according to appropriate scale and coverage	12
2.029	Plot intended courses and distances on charts selected for planning a route	18
2.030	Plan a voyage subject to comprehensive review with master and deck officers	12
2.031	Execute a voyage plan	12
2.032	Calculate and update ETA's for specified waypoints during passage	8
2.033	Inspect holds for safe access and work	12
2.034	Plug and test deck scuppers prior to oil cargo transfer or bunkering	4
2.035	Check that cargo hold bilge suctions are clear of debris or obstructions	4
2.036	Survey all cargo gear, certificates & logs (with Chief Officer)	12
2.037	Inspect cargo gear during operation	12
2.038	Use the Oil Pollution Record Book (Dry Cargo)	8
2.039	Carry out a full inventory & check of deck stores	12
2.040	Following discharge, inspect cargo spaces for damage	12
2.041	Inspect cargo holds prior to loading dry cargo	24

Officer In Charge of a Navigational Watch – Sea Phase 2 continued

TRB#	Task or Duty to be Performed	Hours
2.042	Supervise dry cargo loading and discharge	24
2.043	Supervise the stowage of dangerous goods as per IMDG Code	24
2.044	Inspect refrigerated cargoes	12
2.045	Inspect and record hold temperatures	8
2.046	Control cargo ventilation and temperature	8
2.047	Follow procedures for ballast water exchange	12
2.048	Supervise opening & closing of hatches	8
2.049	Inspect cargo piping line up	24
2.050	Replace valve packing gland	12
2.051	Operate an air hoist	4
2.052	Operate an educator	4
2.053	Follow load and discharge plan (liquid cargo)	36
2.054	Perform calculations for handling liquid cargo	12
2.055	Assist in supervision of loading start up (liquid cargo)	12
2.056	Top off-tanks during loading liquid cargo	36
2.057	Test emergency shut down system for cargo pumps	4
2.058	Operate cargo pumps - main and stripping	24
2.059	Diagram gas venting & vapor recovery systems, if fitted	12
2.060	Operate the inert gas system	12
2.061	Assist in supervision of discharging start up (liquid cargo)	12
2.062	Strip tanks during discharge	36
2.063	Use gas and oxygen testing equipment	12
2.064	Perform safety check prior to COW	12
2.065	Assist with the operation of crude oil washing machine	16
2.066	Keep cargo operations record book during loading & discharging (liquid cargo)	12
2.067	Use the Oil Record Book (Liquid Cargo)	8
2.068	Inspect vessel prior to sailing to ensure all doors and hatches are secure to maintain watertight integrity & reserve buoyancy	16
2.069	Operate portable emergency radio equipment in test conditions	12
2.070	Test fire and smoke detection systems	8
2.071	Test fire alarms	12
2.072	Test fixed fire fighting installations	12
2.073	Use first responder medical equipment	12
2.074	Operate rocket line throwing apparatus	8
2.075	Operate distress rockets, flares, and other pyrotechnics	8
2.076	Demonstrate methods of making fast life saving apparatus painters to the ship	4
2.077	Inspect condition, installation and date of hydrostatic releases for life rafts	8
2.078	Conduct lifeboat inspection and maintenance	12
2.079	Assist with the routine maintenance of a lifeboat engine	12
2.080	Operate davit winch brakes	8
2.081	Call out muster at lifeboat drill	4
2.082	Perform assigned duties during lifeboat drill	8
2.083	Inspect and report on all fire fighting equipment	12

Officer In Charge of a Navigational Watch – Sea Phase 2 continued

TRB#	Task or Duty to be Performed	Hours
2.084	Perform fire fighting duties in response team during fire drill	12
2.085	Supervise response team for fire drill	12
2.086	Perform maintenance on fire fighting equipment	12
2.087	Test and inspect fire doors	12
2.088	Test and inspect fire dampers	12
2.089	Comply with vessel's working aloft permit	12
2.090	Inventory and inspect vessel's store of Person Protective Equipment	12
2.091	Rig a pilot ladder	8
2.092	Operate mooring winches	12
2.093	Supervise making up tugs	12
2.094	Supervise the singling up operation forward	12
2.095	Supervise the singling up operation aft	12
2.096	Supervise running out & making fast mooring lines forward and aft	12
2.097	Prepare anchor & let go anchor	12
2.098	Heave in anchor & secure for ocean passage	12
2.099	Rig accommodation ladder / gangway	12
2.100	Supervise operation of stores crane or derrick	12
2.101	Inspect chain locker, peak tanks & other forward compartments, & ballast Tanks	36
2.102	Supervise the receiving of stores	12
2.103	Supervise the stowage of ropes used in mooring operations	8
2.104	Inspect the vessel prior to sailing to ensure all deck gear is secure	12
2.105	Keep a log of events while in port	12
2.106	Read draft from hull marks	4
2.107	Take dock water density & calculate dock water allowance	4
2.108	Test alarms under supervision as applicable: General alarm, fire detection system, cargo overfill, etc.	12
2.109	Maintain deck fittings such as WT doors, hatches, tank domes, fairleads and roller chocks	36
2.110	Secure deck cargo [note also 1.012]	12
2.111	Sea Project: Observe operations in Engine Room during 1 arrival and 1 departure and describe	16
2.112	Sea project: Pipelines (tankers): Draw a diagram of the cargo pipe line systems (inclusion of pump room is optional). Indicate the location & function of all major valves. Briefly describe one of the cargo pumps.	20
2.113	Sea Project: Pipelines (other than tankers): Draw a diagram of the bilge & double bottom pipe line systems indicating the location of all major valves. Briefly describe the pumps used.	20
2.114	Sea Project: On a deck plan show the position by key letters of each of the life saving and fire fighting equipment. Include a separate list of the key letters with a brief description of each item.	20

Sea Phase 2 Total hours: 1336

Officer In Charge of a Navigational Watch – Sea Phase 3

TRB#	Task or Duty to be Performed	Hours
3.001	Set up and maintain an ARPA display	24
3.002	Acquire target manually	4
3.003	Establish an exclusive area	4
3.004	Set vector characteristics	4
3.005	Designate targets	4
3.006	Cancel targets	4
3.007	Utilize target history features	4
3.008	Establish CPA and TCPA	4
3.009	Establish alarm area	4
3.010	Utilize trial maneuver features	8
3.011	Switch to stabilization modes	4
3.012	Apply parallel indexing techniques	12
3.013	Determine set and drift	8
3.014	Use chronometer & rate book	4
3.015	Use a Star Finder	8
3.016	Adjust a sextant	4
3.017	Measure the altitude of the sun	12
3.018	Measure the altitude of at least 3 stars	12
3.019	Use azimuth mirror	4
3.020	Determine an amplitude	4
3.021	Determine an azimuth of the sun	12
3.022	Determine an azimuth of any body at night	12
3.023	Calculate intercept from a sun sight	12
3.024	Plot a celestial running fix	12
3.025	Measure the altitude of the sun at meridian passage; apply sight to noon fix	12
3.026	Plot a star fix	12
3.027	Fix vessel's position by Loran	4
3.028	Plot position given on GPS	4
3.029	Assess quality of GPS information	4
3.030	Use GPS position-save function	2
3.031	Use electronic chart system, if fitted	36
3.032	Use AIS information	16
3.033	Use echo sounder	8
3.034	Use speed log & distance recorder function	8
3.035	Use off course alarm on autopilot	8
3.036	Use autopilot in Track Mode (if fitted)	8
3.037	Use Autopilot in Heading Mode	8
3.038	Set weather controls on autopilot	8
3.039	Use course recorder	4
3.040	Read hygrometer	2
3.041	Read thermometer	2
3.042	Read barometric pressure	2
3.043	Determine true wind speed and direction	4
3.044	Code and send a weather report	12

Officer in Charge of a Navigational Watch – Sea Phase 3 continued

TRB#	Task or Duty to be Performed	Hours
3.045	Operate weather facsimile, navtex and other systems to receive weather forecasts and updates	16
3.046	Determine expected weather conditions from received reports	16
3.047	Estimate wind force, direction & sea state	8
3.048	Identify light configurations	8
3.049	Identify day shapes	8
3.050	Identify sound signals	8
3.051	Determine risk of collision	8
3.052	Perform tests of steering gear	12
3.053	Correctly perform navigation watch relief (on-coming duties)	8
3.054	Correctly turn over a navigation watch (off-going duties)	8
3.055	Keep a safe anchor watch	12
3.056	Display correct signal flags and shapes	8
3.057	Make correct sound signals	8
3.058	Maneuver to avoid risk of collision – meeting	16
3.059	Maneuver to avoid risk of collision – crossing	16
3.060	Maneuver to avoid risk of collision – overtaking	16
3.061	Keep a safe navigation watch	**48**
3.062	Notifies master when appropriate	8
3.063	Navigate in restricted visibility	24
3.064	Prior to arrival, assist in checking bridge, steering equipment, navigational	8
3.065	Take arrival	8
3.066	Prior to departure, assist in checking bridge, steering equipment,	8
3.067	Take departure	8
3.068	Complete calculations and prepare Noon report (Noon Slip)	8
3.069	Use flashing light for Morse Code	4
3.070	Code and decode using International Code of Signals	4
3.071	Supervise ballast operations	24
3.072	Supervise the preparing and cleaning holds for loading dry bulk cargo	48
3.073	Assist in liquid cargo tank cleaning for tank entry	48
3.074	Assist in purging hydrocarbons with inert gas	36
3.075	Assist in gas freeing operations	36
3.076	Simulate launching a life raft	8
3.077	Launch, handle and recover lifeboat	16
3.078	Assist in bunkering operations	12
3.079	Assist in pollution response exercise	12
3.080	Obtain information from IMDG Code on hazardous cargoes	12
3.081	Assist in hazardous cargo clean-up exercise or drill	12
3.082	Assist in deck requirements during emergency response for stranding, such as tank soundings, freeboard, water depth, etc.	12
3.083	Supervise the lashing of deck cargo [note also 4.034]	18
3.084	Sea Project: Cargo work: Give an account of a cargo loading operation in which you have taken part.	12
3.085	Sea Project: Mooring: Draw approximately to scale, a deck plan of your ship showing the location of fairleads, winches & capstans, and windlasses. Show the leads of mooring lines and wires at a port you have visited.	18

Sea Phase 3: 976 Total Hours

Officer In Charge of a Navigational Watch – Sea Phase 4

TRB#	Task or Duty to be Performed	Hours
4.001	Maneuver vessel for man overboard during a drill	12
4.002	Change vessel's course more than 45 degrees	12
4.003	Conduct emergency stop of the vessel during a drill	8
4.004	Perform routine tests of VHF-DSC & MF & other GMDSS radio equipment	8
4.005	Maintain a log of GMDSS equipment tests and transmissions	8
4.006	Respond to distress signals (real and false) received on GMDSS equipment	8
4.009	Demonstrate shutdown of ventilation system	4
4.011	Respond appropriately to a shipboard fire	12
4.013	Respond appropriately to loss of steering	12
4.014	Respond appropriately to collision	12
4.015	Respond appropriately to grounding	12
4.016	Respond appropriately to simulated ship in distress	12
4.017	Initiate watch augmentation in accordance with Bridge Resource Management principles	12
4.018	Conduct collision avoidance in watch condition 3	24
4.023	Conduct navigation in watch condition 3	24
4.024	Conduct error trapping in watch condition 2 or 3	24
4.021	Conduct navigation and collision avoidance in watch condition 2 or 3	48
4.025	Establish a bridge team in watch condition 3	12
4.026	Interpret plans for dry cargo	12
4.030	Use the vessel's loading computer or stress calculator	36
4.031	Ensure vessel's stability and stress comply with safe limits & intact stability criteria	24
4.032	Take key role in response team during casualty drill for deck, engine room and accommodation spaces	12
4.033	Supervise response team for casualty drills	12
4.034	Supervise the lashing of deck cargo [note also 3.083]	12
4.035	Sea Project: Mooring: Give a brief description of either a docking or undocking operation of your ship.	6
4.036	Sea Project: Anchoring: Give a brief description of an anchoring operation of your ship.	6

Sea Phase 4 Total Hours: 384

TOTAL TERM OF APPRENTICESHIP: Sea Phases 1 – 4 = 3000 HOURS

Related Classroom Instruction Hours for
Officer in Charge of Navigational Watch Apprenticeship Program
771 Hours

Academic Phases

Introduction

The academic phases of the OICNW Program will provide the knowledge foundation upon which practical skills can be built. Time spent in the classroom will be enhanced with simulation and practical exercises. Each academic phase is reinforced by practical training and assessments conducted onboard vessel and documented in a Training Record Book.

The following table reflects the knowledge & understanding necessary to cover the competencies for officers in charge of a navigational watch on ships >_ 500 gt, as per STCW-95 Table A-II/1. This list of course modules is based on the course outlines of IMO Model Course 7.03 (Rev. 1999).

No.	Module	Hours	Days
1.	**Basic Safety Training** This course is required for all mariners. It comprises of basic survival techniques, personal and social responsibilities, preventing marine pollution and basic firefighting. Students are trained and must demonstrate proficiency in all disciplines.	35	5
2.	**Rating Forming Part of a Navigational Watch** This course is required for all mariners assigned to lookout and watch keeping support duties on ocean going vessels. It is supplemented by a period of required sea service of not less than two months, where trainees conduct related practical training and assessments. This course qualifies for Lookout duties only. Full RFPNW issued after sea-time and assessments.	14	2

No.	Module	Hours	Days
3.	**Able Seaman** This 7-day course is designed for mariners at the entry-level position. It provides the trainee the knowledge, understanding and proficiency to work safely and efficiently aboard today's merchant vessels. Marlinspike seamanship proficiency is demonstrated by actually tying various knots, bends, hitches and splices.	49	7

Academic Subjects

4.	**Terrestrial and Coastal Navigation** This course covers every aspect of traditional navigation outside of celestial. Thorough voyage planning and maintaining positional accuracy are stressed. Subjects include but are not limited to: Chart work, position fixing and voyage planning.	70	10
5.	**Compasses** This course on compasses covers the theory of the Earth's magnetism and the application of variation and deviation to courses and bearings. General gyro theory and operating procedures, gyrocompasses, and autopilots make this course effective in teaching the most in depth and effective use of compasses for navigation.	21	3
6.	**Radar Observer Unlimited** Students learn the proper use of radar for risk assessment, collision avoidance, and navigation. The curriculum exceeds USCG and IMO requirements for radar training. "Hands-on" simulations are conducted in the Institute's unique interactive Radar Simulator. This course utilizes Furuno, Raytheon, Decca and Sperry ARPA Radar Displays.	35	5

7.	**Cargo Handling and Stowage** This course prepares the student for undertaking deck watch duties while loading and discharging cargo in port and care of cargo in transit. Subjects include, but are not limited to, inspection and preparation of holds, segregation of cargo, securing, cargo, ventilation, deck cargo, refrigerated cargo, container ships, Ro-Ro ships, cargo handling equipment and safety, dangerous, hazardous, and harmful cargo, oil tankers, bulk carriers, confined space entry, and stowage and stability calculations.	35	5
8.	**Celestial Navigation** This course teaches the most common forms of position fixing by celestial bodies. Teaching is done through lecture, demonstration, and practice. The equipment used for Celestial Navigation is the sextant. Subjects for this course include, but are not limited to, nautical astronomy, sextant and altitude correction, sight reduction and lines of position, meridian transit, time of sunrise/sunset, and star identification and selection.	80	10
9.	**Automatic Radar Plotting Aids (ARPA)** Students learn the proper use of Automatic Radar Plotting Aids. The curriculum exceeds IMO requirements for ARPA training and satisfies the USCG, STCW - 1995 requirements. "Hands-on" simulation is conducted on Sperry, Furuno, Decca and Raytheon ARPA displays. Successful completion of the course entitles students to an Automatic Radar Plotting Aids certificate and an Unlimited Radar Renewal Endorsement.	35	5
10.	**Bridge Watch keeping** This course utilizes a lecture and demonstration style and includes the simulation equipment Transas Navi-Trainer. Watch keeping focuses on taking action to avoid close quarters situations in accordance with the COLREGS and watch keeping procedures. Course subjects include: rules of the road, keeping a safe navigational watch, Bridge Resource Management, keeping an anchor watch, keeping a watch in Port, pollution prevention and record keeping.	75	10

11.	**Meteorology** Students learn various weather systems, reporting procedures and recording systems. Students use and interpret information obtained from shipboard meteorological instruments and includes, but is not limited to, ship borne meteorological instruments, the atmosphere, its compositions and physical properties, atmospheric pressure, wind, clouds, and precipitation, visibility, wind and pressure systems over the oceans, anticyclones, weather services for shipping, and weather forecasting.	35	5
12.	**Ship Construction** & **Basic Stability** This course covers basic ship construction features and terminology and principles of stability. Subjects include ship dimensions, ship stresses, hull structure, rudders and propellers, displacement, buoyancy, statical and initial stability, list, trim, and free surface effect.	35	5
13.	**Global Maritime Distress and Safety System (GMDSS)** This course is required by persons assigned to operate GMDSS equipment onboard. It covers the training recommended by the U.S. GMDSS Implementation Task Force in order to achieve the Learning Objectives required by Table A-IV/2 of the STCW code. *(As per MC 1.25 – General Operator's Permit)*	70	10
14.	**Signals** This course and its associated exam satisfy the USCG requirements for reading Visual Morse Code and using the International Code of Signal.	7	1
15.	**Basic Ship Handling** This course utilizes full mission visual simulation to reinforce theoretical lessons. Students practice turning circles and stopping distance in deep and shallow water, man overboard procedures and basic anchoring. Subjects will include, but are not limited to, general principles, turning circle and stopping distance, effects of wind and current, maneuvering for man overboard, shallow water effects, anchoring and mooring, and steering control systems.	35	5

16.	**Emergency Procedures** This course covers procedures for dealing with emergency situations and the training that is necessary to maintain an effective response. The development and use of a checklist is stressed. Taught through lecture and exercise, the subjects for this course include, but are not limited to, contingency planning, grounding, collision, safety of passengers and crew, fire/explosions, abandoning ship, emergency steering arrangements, towing, rescue, assisting vessels in distress, and emergencies in Port.	21	3
17.	**Search and Rescue** This valuable course provides the trainee with knowledge of the contents of the IMO Merchant Ship and Rescue Manual (MERSAR), and the procedures necessary to respond to a distress signal at sea. Subjects included in this course are administration and international provisions, communications, operating procedures, SAR resources, navigation, search areas, and search patterns.	14	2
18.	**Advanced Fire Fighting** The Advanced Firefighting course is designed to provide training for those personnel who will command fire-fighting efforts on board the vessel. The course is certified by the US Coast Guard and complies with the requirements of 46 CFR and STCW 95. *This course meets the Basic Firefighting requirements of Basic Safety Training. (As per MC 2.03)*	35	5
19.	**Shipboard Medical First Aid** This course is designed for licensed deck officers who will provide immediate first aid to ship's personnel and assists the ship's Medical Person-in-Charge. Subjects include airway management, patient assessment, medical emergencies and trauma. *(As per MC1 14 - Med First)*	35	5
20.	**Electronic Navigation Course** This course covers the theory and practical use of electronic navigational aids. Possible errors and limitations are stressed along with methods for resolving position ambiguity. Subjects include: GPS, Echo Sounders, Speed Logs, Radar Navigation, ECDIS and navigation software.	35	5
	Total Classroom Hours	**771 Hrs**	**108 days**

Commanding Officer
United States Coast Guard
National Maritime Center

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U.S. Department of Homeland Security

United States

16720/4

APR 21 2004

Mr. John Scragg
Pacific Northwest Maritime Institute
2333 Third Avenue
Seattle, WA 98121-1711

Dear Mr. Scragg:

This is in response to your letter of March 26, 2004, requesting approval of your Mate 500 Gross Tons program.

The program meets applicable requirements, and is being approved. The specific approval awarded the program is contained in enclosures (1). The terms of the approval are specified in Enclosure (2).
When applying for a license from a Regional Examination Center, graduates of the program must include the following in their application:

- Documentation of at least 360 days of seagoing service and training obtained on vessels over 500 gross tons (ITC) operating beyond the boundary line, at least 180 days of this service must include the performance of navigational watch keeping duties carried out under the direct supervision of the master or the officer in charge of a navigational watch. This service must have been obtained as part of your program.
- Completed Training Record Book.
- Course completion certificates from Coast Guard approved courses in *Basic Safety Training, Proficiency in Survival Craft, and Advanced Fire Fighting. If* applying for a tanker man endorsement or endorsement *of* medical care person in charge, they must also include certificates for these courses.

Sea service credit granted as part of this approval may *not* be used for any subsequent raises in license grade, including a raise in grade to Third Mate of Any' Gross Tons.
This approval is effective May 1, 2004, and expires on May 31, 2006. Subsequent five-year renewals may be granted upon a written request to this office made at least 30 days before this approval expire.

Sincerely,

COPY FOR YOUR INFORMATION

" PERK A. STUTMAN
Chief, Examination and Course Approval Branch U.S. Coast Guard
By direction