



U.S. Coast Guard Auxiliary

District 11 Northern Region
Serving Northern California, Nevada, Utah



District Navigation Systems

Covering Aids to Navigation, Bridges, & Chart Updating Activities

Accuracy - Credibility – Professionalism - Service to the Coast Guard & NOAA-NOS

DSO-NS Northern Region Report No. 2018-01

Date: February 5, 2018
From: DSO-NS 11(NR)
To: DCAPT- P & All D11 Auxiliary Members for Immediate Action
Info: EXCOM, Board & Staff, SO-NS, FSO-NS & Aid Verifiers, D11 (dpw) & D11 (dpa-n)
Subject: DSO-NS July Report/Bulletin

SO-NS please contact each FSO-NS to see that they receive a copy of this bulletin.

Additional copies can be downloaded at:

<http://wow.uscgaux.info/content.php?unit=113&category=navigation-systems-1>

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1. AUX 06 C-School "Aids to Navigation & Chart Updating "on 15-17 June 2018



Coast Guard Training Center, Yorktown, Virginia

<http://wow.uscgaux.info/content.php?unit=aux06>

When and WHERE: The class will begin at 0800, Friday the 15th of June 2018 and end 1200, Sunday the 17th of June 2018. The location will be at Yorktown, VA. Transportation & Lodging will be provided by Coast Guard under orders.

About the Course: This school is designed to provide training in all five Auxiliary Navigation Systems Programs Federal Aids-(**ATON**), - Private Aids-(**PATON**), the Bridge Administration-(**BAP**) and Chart Updating-(**CU**) Programs. New Navigation Systems Form & PowerPoint training aids for most Navigation Systems programs will be introduced. The aim of the Navigation Systems – 2018 AUX 06 "C" School is to train a cadre of Auxiliary leaders who will promote the Navigation Systems programs in their District and develop new and lasting programs and

relationships with the Coast Guard & NOAA-National Ocean Service in support of the goals and objectives of the Auxiliary Aid to Navigation, Bridges, & Chart Updating Program.

Who May Attend: Candidates must be recently assigned as a FSO-NS (Flotilla Staff Officer - Navigation Systems), SO-NS (Division Staff Officer - Navigation Systems), or a DSO or ADSO-NS (District Staff Officer - Navigation Systems). This training is not refresher training. Alternative training is available through your District Navigation Systems program managers. COMDT (CG-5421) must approve all waivers. Only one class convening is scheduled per year. Applicants MUST have an internet e-mail account capable of receiving and downloading attachments to order and to benefit most from this training. Therefore, the candidate's e-mail address must be included in Block #22 of the Short-Term Resident Training Request ([STTR\) Form CG-5223](#) prior to approval.

If you want to attend you must get your "School Short Term Training Request Form CG-5223" into DIRAUX (Tina Perry) ASAP. The website above will give all the information you will need to attend the 2018 AUX 06 Course.

<http://wow.uscgaux.info/content.php?unit=aux00>

How to apply for this C-School: Complete a "School Short Term Training Request" ([STTR\) Form CG-5223](#) from the above web-site. Send your completed CG-5223 form to your District DIRAUX (Director of Auxiliary)-(Tina Perry) via your Flotilla Commander (your FC is required to sign the form). Please also send a copy to the AUX-06 Coordinator.

Priority Codes for Block 15 on the form are:

Priority 1 - Candidates must be recently assigned as a Navigation Systems Staff Officer any level. Aid Verifier qualification is required.

Priority 2 - Navigation Systems Staff Officer who does NOT hold AV qualification;

Priority 3 - all others based on available space.

Keep a copy of the Form CG-5223. Expect to receive travel and information about orders.

Candidates and instructors that have not completed their mandated training cannot and will not be issued orders for this or any "C" school.

For questions regarding the course or application process, (please read all documents on the above site first), please contact: [AUX-06 Coordinator](#) for the AUX- 06 C- School "Aids to Navigation & Chart Updating", POC: Ed Martin, DVC-PN.

Send in your "School Short Term Training Request" (STTR) Form CG-5223 ASAP because the AUX- 06 ATON AND CHART UPDATING fills up fast.

2. The D1N 2018 Aid Verifier Training Schedule:



**The 2018
Aid Verifier
Training
Schedule**

GETTING READY FOR A 2018 AV CHALLENGE?

INTERDUCTION This AV Training Program schedule will be very helpful to all District Eleventh Northern Aid Verifier-PQS students. All class starting times will be 1700 PST in Eleventh Northern.

NOTE: There will be some subject that will not apply to the Eleventh Northern Auxiliary District. If you need help or have question or problems contact James B. Duncan, DSO-NS 11N.

The 2018 AV Training Program schedule is presented by First Northern District' Navigation Systems Team below. Open/CPN NOAA Charts are provided on line and all needed Coast Guard Nautical catalogs are linked on-line and are free. You can become a more skillful and knowledgeable navigator as the result of this specialized training.

AID VERIFIER By completing this 2018 *Aid Verifier* course of study, you will be able to perform highly accurate *bridge surveys & private aid to navigation* (PATON) verifications and rechecks on the Eleventh Northern's private aids and be able to survey our bridges. You can form your own *Navigation Systems* (NS) Team or you may work as an individual contributor. Whichever route you choose, you can become a skilled navigator and an important part of our AV support for the Eleventh District (dpw) & *Coast Guard Auxiliary Aid to Navigation Team*. There are approximately **750 private aids & 52 bridges** in Eleventh Northern's that the Coast Guard has directed the Auxiliary AVs to verify annually. Many other aids, with unresolved discrepancies, may be scheduled for re-check. Still more "unauthorized" aids may need to be researched for ownership and proper permitting. All official Bridge Surveys, PATON Sheets & CG-7054 PATON Reports are submitted to CGD11 (dpw) via DSO-NS by submitted email or USPS. Bridge Survey & PATON Sheets are published by CGD11 (dpw) and sent to all SO-NS or Area Coordinator for each Division in Eleventh Northern for this purpose.

You are required to be Aid Verifier Qualified and currently certified as an AV-PQS in order to perform verifications on private aids to navigation and surveys on bridges for the Eleventh Coast Guard District (dpw).

NS: NS stands for *Navigation Systems* and we need your assistance this year. If you are detail oriented and like to work with a GPS, Echo Sounder, Computer, Navigation Software and are capable of preparing detailed and highly accurate, professional reports, don't miss out on this interesting volunteer opportunity.



The 2018 AV Training Schedule

The D1NR Navigation Systems 2018 training program begins on Tuesday, February 6th on WebEX. Expand your navigation experience by joining these Navigation Systems training sessions. There's room for 200 participants at each session. Recordings of each training session are maintained on the Navigation Systems Web Site for review by AVs and AVCs who unable to attend the live sessions.

AV TRAINING 1 – INTRODUCTION TO NAVIGATION SYSTEMS

Tuesday, February 6, 2018 @ 1700 to 1830 hrs.

Pre-Class Assignments: You need have copies of these documents available to follow along with this presentation.

Download and review a copy of the AV/PQS from D11 NS Web Site at <http://www.uscgaux.info/content.php?unit=113&category=qualifications> prior to this training session.

Download and review a copy of the District Specific Tasks from NS Web Site <http://www.uscgaan.com> prior to this session.

Presentation Topics:

WebEX Orientation Session. [The new procedures will be explained.](#)

Understanding the AV Qualification Process.

Review of the AV/PQS.

Review of the required District Specific Tasks.

Orientation of the Navigation Systems Web Site. [[Everything that you need to know about Aids to Navigation and Bridges is available on this Web Site.](#)]

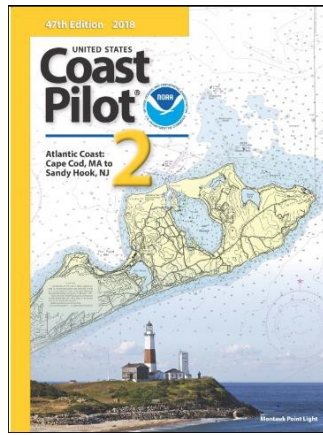
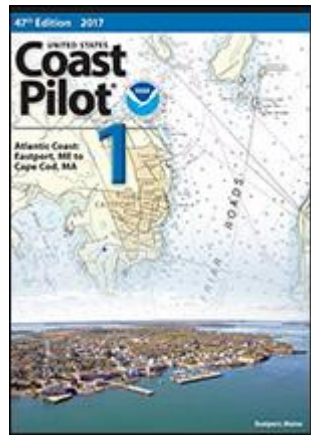
Homework Assignments to be completed before attending AV Training 2 session.

Find the following Nautical Catalogs and Almanacs on the **D1NR Web Site** www.uscgaan.com . Familiarize yourself with the purpose and the information provided by each publication. Note that they are all free.

- **Corrected Light List** (Don't download. This document is corrected weekly. Reference the Web Site copy.)
- **LNM – Local Notice to Mariners.** (Don't download. New issues are provided each week. Sign up for weekly e-mail or reference the Web Site.) AVs should read this document each week.
- **Chart No.1** (Download to your PC and review.)
- **Corrected Coast Pilot.** (Don't download. This document is corrected every Tuesday. Reference the web site copy.)
- **The Navigation Systems Calculator.** (Download to your PC.)

Read **Part 66 of the Federal Regulations for Private Aids to Navigation** available of the Private Aids

web page at WWW.USCGAAN.COM (Review this document before the AV Training @ session.



[AV TRAINING 2 – NAUTICAL ALMANACS – FEDERAL REGULATIONS – INTRO TO ON-LINE NOAA CHARTS](#)

Tuesday, February 20, 2018 @ 1700 to 1830 hrs.

Question and Answer Session on Training Session 1 Topics and Homework.

Presentation Topics

Introduction to the free and on-line Nautical Almanacs used by AVs

Review of the following documents on the NS Web Site at WWW.USCGAAN.COM. These are the reference documents that AVs use to check the published information about private aids and bridges. The District Staff use these documents to establish and check data, and each AV references these documents as part of their verification, recheck and survey activity.

- **The Harbormaster Private Aid to Navigation System.**
- **Corrected Light List**
- **LNM-Local Notice to Mariners**
- **Chart No. 1**
- **Corrected Coast Pilot**
- **The Navigation Systems Calculator**

Understanding the Federal Regulations for Private Aids to Navigation (PATONs).

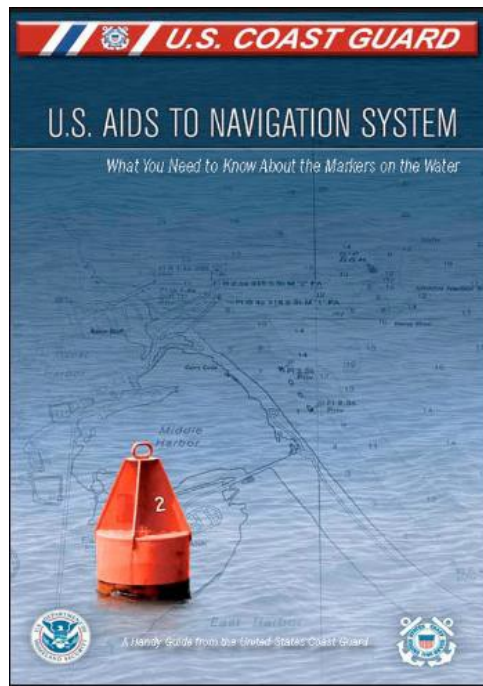
Part 66 of the Federal Regulations for Private Aids to Navigation, available on the Private Aids web page at WWW.USCGAAN.COM, are the rules and regulations that every AV needs to know in order to make knowledgeable observations and decisions for their proper use of private aids in the field.

An Introduction to NOAA Nautical Charts and the OpenCPN Chart viewer system.

Check out the various Nautical Chart packages that are available on the NS Web Site at WWW.USCGAAN.COM. This training is a comprehensive experience of all of the important elements of a NOAA Nautical Chart which are basic to your effectiveness as an Aid Verifier. Being able to correctly measure and plot private aids on electronic nautical charts is an important part of the AV skill set.

Homework Assignments:

Obtain and read a copy of the **“Aid to Navigation Booklet”** from your Flotilla Supply Officer or Public Education Officer or download it from the NS website here: [U.S. AtoN Booklet](#)



**AV TRAINING 3 – INTRO TO THE AID TO NAVIGATION SYSTEM –
INTRO TO THE OPEN/CPN NOAA ON-LINE CHART SYSTEM.**

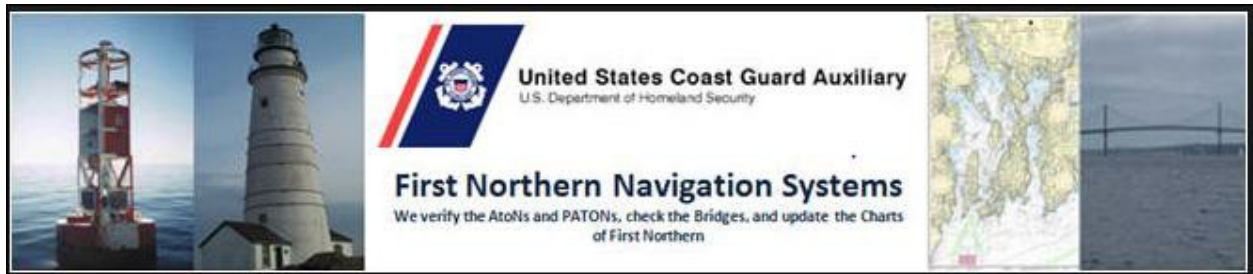
Tuesday, March 6, 2018 @ 1700 to 1900 hrs.

Question and Answer Session on Training Session 2 Topics.

Presentation Topics

?? Basic Aid to Navigation (ATON) Training Presentation

This session deals with the specifications and physical aspects of private aids to navigation and their uses. AVs use this information for every private aid that they verify and check as an Aid Verifier.



**AV TRAINING 4 – DISCREPANCIES ON AIDS TO NAVIGATION AND
OTHER BUOYS AND STRUCTURES.**

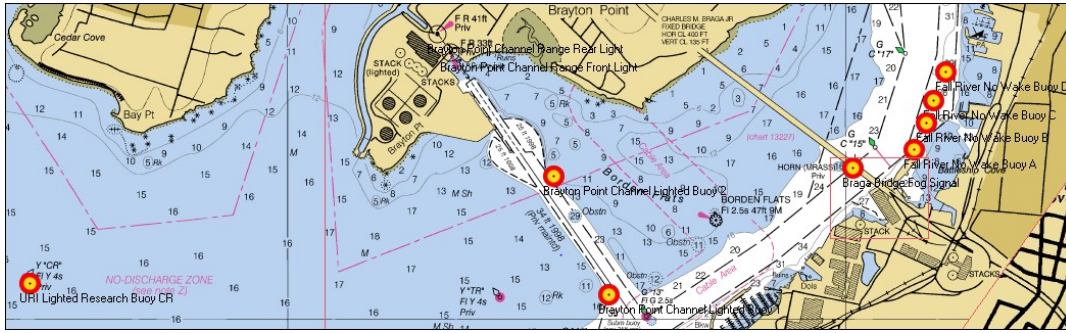
Tuesday, March 20, 2018 @ 1700 to 1900 hrs.

Question and Answer Session on Training Session 3 Topics.

Presentation Topics:

A brief Introduction to the use of Open/CPN NOAA on-line charts by Mike Quinn

This important session introduces you to the Open/CPN NOAA Charts that AVs need using when verifying and checking private aids.



Private Aid to Navigation (PATON) Discrepancy Training.

This session deals with the various issues that AVs will have to deal with regarding reporting discrepancies on private aids to navigation.

Homework Assignment:

Request a copy of a local Run Sheet from the DSO-NS by e-mail and start to familiarize yourself with it before the next session. **Run Sheets are only available to AVs who support the First Northern Coast Guard.**

AV TRAINING 5 – USING THE PATON RUN SHEET – OPERATIONAL SOP FOR PERFORMING A VERIFICATION ON A PRIVATE AID.

Tuesday, April 3, 2018 @ 1700 to 1900 hrs.

Question and Answer Session on Training Session 4 Topics.

Presentation Topics:

How to use the new PATON Run Sheet.

Run Sheets are used in the field for collecting required observations for the scheduled verifications and checks private aid.

TOTAL PATONS		2018		VER	CHK	PHO	PATON PLAN PHASE TWO			12/31/2017		2018 PATON PLAN								
19		0		0	12	13	D01 - 05 - Blue Hill Bay Run			0		0 0 0								
U. S. COAST GUARD AUX		0		0.0%	0	0.0%	With Off STA Calculation Feature			0		0 0 0								
D01 - 05 - Blue Hill Bay Run		VERIFY - Requires that an AV do a total verification on the aid and submit a CG-7054 PATON (on-line) report. And the AV should advise the CG by e-mail when an observed critical discrepancy is observed on a lateral aid.				RECHECK - AV is required to check the specific discrepancy requested on the Run Sheet and report it to the DSO-NS. It is not usually necessary to submit a CG-7054 PATON Report. AV should include a photograph as evidence of the observed correction.				SANITY CHECK - AVs are requested to observe all unscheduled aids to view whether they are watching properly. Critical discrepancies observed on lateral aids should be reported on a CG-7054 PATON Report.										
Page 1 of 5		Latitude			Longitude			TRAN CORR	0.0	DATE	D01 - 05 - Blue Hill Bay Run									
0.00	PATON NAME	TYPE	DEG	MIN	SECONDS	DEG	MIN	SECONDS	TIME	EPE (ft)	DEPTH	DATUM	CRITERIA	LAST RPT	DURATION	LAST KNOWN STATUS	ANNUAL ACTIVITY	VER	CHK	PHO
10011769139	Ellsworth Harbor No Wake Buoy B	LL	44	32	05.000	68	25	20.000			9.2	3.8	500	8/14/2017	15-May 15-Oct	White w ORA Bands	1			
1	NOT SCHED	CHT	NOT IN THE LIGHT LIST						DATE	DIST OFF STA	HOT	PHOTO	LIGHT	OFF STA	2017 REPORT, 129.0 FT OFF, WP					
		OBS	44	32	05.800	68	25	19.400		129.0	5.4	Has Photo	Not Lighted	ON STA	NOT SCHED - Just sanity check this aid in 2018.					
100117699149	Ellsworth Harbor No Wake Buoy C	LL	44	31	48.000	68	25	26.000			9.5	4.1	500	8/14/2017	15-May 15-Oct	White w ORA Bands	1			
2	NOT SCHED	CHT	NOT IN THE LIGHT LIST						DATE	DIST OFF STA	HOT	PHOTO	LIGHT	OFF STA	2017 REPORT, 79.5 FT OFF, WP					
		OBS	44	31	48.700	68	25	25.500		79.5	5.4	Has Photo	Not Lighted	ON STA	NOT SCHED - Just sanity check this aid in 2018.					
2426.00	Hardwood Island Aquaculture Buoy A	PMT	44	18	21.700	68	26	48.400			106.0	97.0	500	8/14/2017	Annual	Yellow	1			
10116925151	3	LL	44	18	21.700	68	26	48.400							2017 REPORT, POSN UPD					
	NOT SCHED	CHT	44	18	21.700	68	26	48.400	DATE	DIST OFF STA	HOT	PHOTO	LIGHT	OFF STA	NOT SCHED - Just sanity check this aid in 2018.					
		OBS	44	18	21.700	68	26	48.400		0.0	9.0	Has Photo	Not Lighted	ON STA						

Operational SOP for performing a scheduled Triennial verification or recheck on a Private Aid.

This critical training session explains the Standard Operating Procedure for verifying private aids to navigation in the field from the pre-underway check at the dock to the submission of the CG-7054 PATON Report on the on-line Harbormaster System. **This procedure is required and must be followed for properly verifying a private aid to navigation.**

“We verify the ATONs and PATONs, check the Bridges, and update the charts of First Northern.”

AV TRAINING 6 – USING OPEN/CPN CHARTS WHEN VERIFYING A PRIVATE AID AND FOR CHART UPDATING PROJECTS.

Tuesday, April 17, 2018 @ 1700 to 1900 hrs.

Question and Answer Session on Training Session 5 Topics.

Presentation Topics:

Using Open/CPN Charts when verifying and checking Private Aids.

These free on-line charts can easily be maintained in a highly accurate state and offer the AV a series of on-line navigation tools to perform all of the required navigational tasks quickly and accurately.

Using Open CPN Charts for Chart Updating projects.

Special navigational techniques for performing Chart Updating are explained.

AV TRAINING 7 – HOW TO DOWNLOAD OPEN/CPN NOAA CHARTS – HOW TO UPDATE OPEN/CPN CHARTS ON YOUR PC.

Tuesday, May 1, 2018 @ 1700 to 1900 hrs.

Question and Answer Session on Training Session 6 Topics.

Presentation Topics

How to download Open/CPN NOAA Charts onto your personal computer.

How to update your Open/CPN NOAA charts on your personal computer.

Homework Assignment:

Download the Open/CPN NOAA Chart package to your PC.

Read the Federal Regulations concerning Bridges and Bridge Lighting.

AV TRAINING 8 – REVIEW OF BRIDGE LIGHTING AND OTHER SAFETY EQUIPMENT – REPORTING BRIDGE SURVEYS TO THE CG.

Tuesday, May 15, 2018 @ 1700 to 1900 hrs.

Question and Answer Session for resolving download problems on Open/CPN Charts incurred trying to download Open/CPN NOAA Charts to your PC.

Presentation Topics

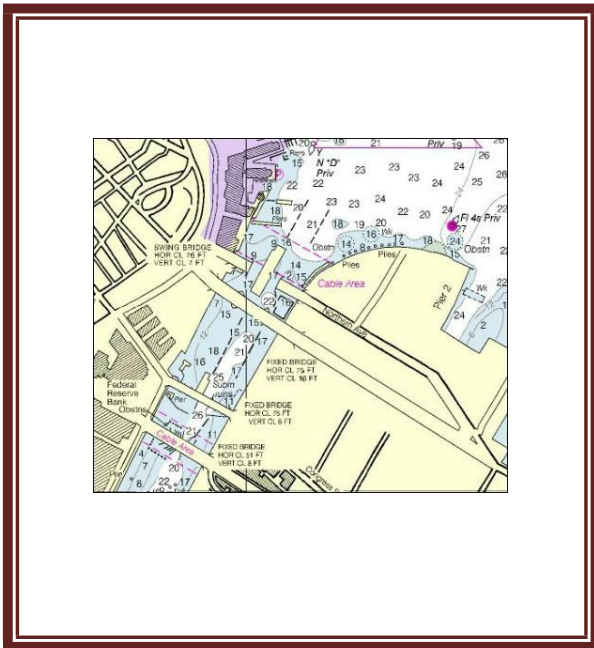
Understanding bridge lighting and safety equipment specifications.

Using the on-line Bridge Reporting System.

This on-line Bridge System is proprietary to First Northern Coast Guard Auxiliary AVs and is very similar to the on-line bridge system version used by the First Southern Coast Guard Auxiliary AVs. Most other Districts used paper reports manually prepared and mailed to the Coast Guard.

Homework Assignment

Log onto the on-line First District Bridge Systems and familiarize yourself with the various screens and their purpose before this training session.



AV TRAINING 9 – UNDERSTANDING THE PREPARATION OF THE ON-LINE CG-7054 PATON REPORTING SYSTEM ON HARBORMASTER.

Tuesday, May 29, 2018 @ 1700 to 1900 hrs.

This on line PATON management system is only available to AVs in the First District

Question and Answer Session for AV Training 8 – Bridges.

Presentation Topics

How to prepare the required CG-7054 PATON Report on-line on the Harbormaster System.

Since you will not be allowed access to the Harbormaster System until you are AV qualified, this training session is presented on-line and walks you through the various options for creating and

submitting a CG7054 PATON Report. You have to submit on-line 7054 PATON Reports as part of your AV Qualification training.

Dealing with lateral aids with critical discrepancies and the need to get the discrepancy reported to the marine public by a LNM – Local Notice to Mariners.

Understanding the PATON Program Screening Process.

When you submit a CG-7054 PATON Report, it goes into suspension before it is sent to the PATON owner and the CG ANT. This screening process will be demonstrated and explained during this important training session. Note that the screener has the capability to correct your CG-7054 PATON Report in order to maintain the Navigation Systems 100% Report Accuracy Goal. If erroneous or incomplete reports can't be corrected by the PATON Screener, they will be rejected back to the submitting AV for review and resubmission.

District PATON Screener's Review of the AV's suspended CG-7054 PATON Report.

AVs receive back a copy of the CG-7054 PATON Report after it is possibly modified and accepted by the PATON Screener. This important training session demonstrates and explains what report fields are important for the AV to review in order to avoid future report rejections. AVs are asked to think of this report as part of an on-the-job training exercise.

The PATON Report Rejection Process and the Review of the AV's Copy of the PATON Rejection Report.

When the PATON Screener cannot make appropriate corrections to your CG-7054 PATON Report, the report will be rejected back to the AV. This training session explains what happens when the screener selects this option. A copy of an actual rejection report will be demonstrated and AV follow up procedures will be explained.

SECTION I - PATON SPECIFICATION and OBSERVER'S INFORMATION																									
UMASS BUOY 2																									
PATON SYSTEM #:	29408																								
GENERAL LOCALITY:	UMASS Channel, Neponset River																								
OPFAC NUMBER:	01-41949-																								
LLNR:	11240.10																								
AID NUMBER:	100117297931																								
CLASS:	2																								
<table border="1"> <thead> <tr> <th>PERMITTED</th> <th>OBSERVED</th> </tr> </thead> <tbody> <tr> <td>PATON PURPOSE:</td> <td>MARKS A CHANNEL</td> </tr> <tr> <td>PATON CATEGORY:</td> <td>Unlighted Buoy</td> </tr> <tr> <td>AID COLOR:</td> <td>RED</td> </tr> <tr> <td>PATON TYPE:</td> <td>Floating Un-lighted</td> </tr> </tbody> </table>		PERMITTED	OBSERVED	PATON PURPOSE:	MARKS A CHANNEL	PATON CATEGORY:	Unlighted Buoy	AID COLOR:	RED	PATON TYPE:	Floating Un-lighted														
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Location, Depth and PATON Type.....																									
LATITUDE:	42 18 25.49 N																								
LONGITUDE:	71 02 31.54 W																								
EPE ESTIMATE POSITION ERROR:	ft.*																								
DEPTH AT DATUM:	7.0 FT.																								
HEIGHT OF TIDE:	ft.																								
<table border="1"> <thead> <tr> <th colspan="2">Floating PATON</th> </tr> </thead> <tbody> <tr> <td>BUOY MATERIAL:</td> <td>PLASTIC <input type="radio"/> Wood <input type="radio"/> Metal <input type="radio"/> Plastic <input type="radio"/> Foam <input type="radio"/> Other</td> </tr> <tr> <td colspan="2">Establishment</td> </tr> <tr> <td>ACTION REQUESTED:</td> <td>Annual</td> </tr> <tr> <td>AID DURATION:</td> <td></td> </tr> <tr> <td colspan="2">Dates and Times</td> </tr> <tr> <td>DATE LAST REPORTED:</td> <td>7/22/2014</td> </tr> <tr> <td>DATE OBSERVED:</td> <td></td> </tr> <tr> <td>DATE REPORTED:</td> <td>1/3/2018</td> </tr> <tr> <td>TIME WHEN VERIFIED:</td> <td>(HH:MM 24 hour clock)</td> </tr> <tr> <td colspan="2">Auxiliary Unit Assignment</td> </tr> <tr> <td>DISTRICT/DIVISION/FLOTILLA: 013 / 05 / 00</td> <td>PATROL AREA: BOS-2</td> </tr> </tbody> </table>		Floating PATON		BUOY MATERIAL:	PLASTIC <input type="radio"/> Wood <input type="radio"/> Metal <input type="radio"/> Plastic <input type="radio"/> Foam <input type="radio"/> Other	Establishment		ACTION REQUESTED:	Annual	AID DURATION:		Dates and Times		DATE LAST REPORTED:	7/22/2014	DATE OBSERVED:		DATE REPORTED:	1/3/2018	TIME WHEN VERIFIED:	(HH:MM 24 hour clock)	Auxiliary Unit Assignment		DISTRICT/DIVISION/FLOTILLA: 013 / 05 / 00	PATROL AREA: BOS-2
Floating PATON																									
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SECTION II - DOCUMENTATION OF DISCREPANCIES																									
The observations of this PATON match the entry in the light list, the PATON's permitted record, and the entry for this PATON on its nautical chart.*																									
<input type="radio"/> YES <input type="radio"/> NO																									
PATON with the IALA-B ATON System?* <input type="radio"/> Comply <input type="radio"/> Doesn't Comply <input type="radio"/> Not Lateral Aid																									
This PATON is watching properly?* <input type="radio"/> Yes <input type="radio"/> No																									
SECTION III - COMMENTS																									
PERMITTED COMMENTS (Description information about specific PATON):																									
Red Nun																									
AV OBSERVATIONS (For AV Special remarks and observations.):																									
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ACCURACY STATEMENT (For AV to support accuracy of electronic equipment)*:																									
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SECTION IV - AV SECTION																									
Submitted by*	USCGACTON																								
District/Division-Flotilla*	013-10-07																								
Email Address *	FrankJLarkin@verizon.net																								
SECTION V - OWNER CONTACT DETAILS																									
POC:																									
Address:																									
Email: opctr@umb.edu																									
Phone: 617-287-5406																									
SECTION VI - HARBORMASTER CONTACT DETAILS																									
Harbormaster: UMass, Boston																									
Email: opctr@umb.edu																									
Phone: 617-287-5406																									
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SUBMIT PATON REPORT																									

AV TRAINING 10 – AVC FINAL CHECK OFF UNDERWAY CHECK OFF – SIMULATION REVIEW

Tuesday, June 12, 2018 @ 1700 to 1900 hrs.

AV will pre-underway calibrate their GPS and Echo-sounder that will be used for the PATON Patrol. This activity is a prerequisite for the preparation of the “***Accuracy Statement***” that must be included with each CG-PATON Report that is generated on the PATROL.

AV will make assignments for the rest of the NS team aboard the vessel. Part of this briefing will be an explanation of the specific private aid verifications and rechecks that are scheduled on the Run Sheet being used for the Patrol. The following assignments will be reviewed:

- **Positioning plan.**
- **Depth plan.**
- **IALA-B Status of the Aid.**
- **Review of discrepancies observed on the private aid.**
- **Quality Control checks on reports.**

AV will brief the Coxswain as to the directions to the first PATON on the Run and the route that needs to be taken to complete the planned patrol in a complete and timely manner. Planned route should be presented and reviewed on a current NOAA Chart. Maneuvering and boat speed issues should be clarified with the coxswain at this time.

AV will direct the verification of a minimum or two laterals aid to navigation and record the required observations on a Run Sheet. Different types of private aids are desired – floating lateral – fixed lateral – regulatory – unauthorized, etc. AV should also perform a recheck of a private aid.

It is important that an AVC–Aid Verifier Candidate gets underway with qualified AVs before the final “***AV Training 10 Session***” in order to practice the verification and recheck and reporting process. They should schedule rides or plan some simulated events.

Being able to complete the AV Training Checklist shown at the end of this document will take a bit of practice. The DSO-NS can set up (on-shore) practice events in local areas as needed. AVCs need to take the initiative to arrange for facilities with Internet capability for this purpose.

More Important Advice for AVCs!

Don't underestimate the amount of effort that is required to become Aid Verifier Qualified. Instead, focus your attention on the navigation skills that you will receive from these training sessions. The actual act of verifying a private aid is fairly simple and quick. However, the background knowledge that is required can be burdensome but necessary. A quick method to attain this knowledge is to hang out with qualified and current AVs and participate with them on their Navigation Systems Patrols. Don't be afraid to ask questions. As your DSO-NS, I have been working with the Aid to Navigation

program for over thirty-three years and I still have to ask questions about situations that I run into in the field. We welcome every Auxiliarist to join with us in this worthy Coast Guard endeavor. We also understand that it takes a substantial effort to complete the AV Training. We will work with you to see you through the training and get you qualified. Much of you newly acquired skills will be honed by your activity and experiences in the field. *This support starts on February 6th on Webex at 5:00pm.*

Logging onto the WebEX Training

1. Go to the Navigation Systems Web Site @ www.uscgaan.com.
2. Click on the "WEBEX TRAINING" web page from the column at the left.
3. Follow the instructions in the Info Block.

To join the training session click on the link below
Note: Link is active at 1950 hours on day of presentation

Tuesday's WebEx Meeting

If prompted, password for webex is: uscg (all in lower case)

4. When the meeting is started [Check the instruction at the top right for message.], click on "JOIN."

D1N Navigation System Training ↻

Tuesday, January 9, 2018 | 7:30 pm Eastern Standard Time (GMT-05:00) | 2 hours 30 minutes | ● Not started

Recurrence: Every Tuesday, from Tuesday, December 19, 2017, to Tuesday, December 25, 2018

Host: Frank Lucca [Add to my calendar](#)

[▶ More information](#)

Join

When it's time, join your meeting here.

If you are the host, [start your meeting](#).

By joining this meeting, you are accepting the Cisco WebEx [Terms of Service](#) and [Privacy Statement](#).

5. You will not be able to join until the Host logs on to the system (Starts the meeting). This will generally be approximately at around 7:30 PM.

Revision 1-4-2018

Prepared by the First Northern Navigation Systems Staff. Submit questions to the DSO-NS at FrankJLarkin@verizon.net or ADSO-NS Michael Quinn at MichaelSQuinn@gmail.com



3. 2018 NAVIGATION SYSTEMS ACTIVITY REPORT:

This summary report activity table covers all ATON, PATON, Bridge, & Chart Updating activities & reports received by D11 (dpw), NOAA-NOS & AUXINFO through **February 4, 2018.**

2018 DIVISIONAL, BRIDGE, ATON, & CHART UPDATING ACTIVITY SUMMARY REPORT

Div.	AIDS TO NAVIGATION ACTIVITY							Bridges Assigned				PATON's Assigned				2017 AVPO in Train- ing	A V - P Q S
	Bridge	Bridge AUX Data Lead only	ATON	ATON AUX DATA Lead only	PATON	PATON NO Permit	PATON AUX DATA Lead only	AOR	Check	% Done	Still to Do	AOR	Check	% Done	Still to Do		
1								4		0%	4	103		0%	103	3	9
3	8				2			15	8	53%	7	34	2	6%	32	0	4
4								2		0%	2	69		0%	69	1	2
5								11		0%	11	104		0%	104	2	3
6	2	2						2	2	100%	0	66		0%	66	0	2
8								1		0%	1	5		0%	5	1	0
10								9		0%	9	63		0%	63	1	5
11								0		0%	0	139		0%	136	0	3
12			1		2			8		0%	8	160	2	1%	158	1	7
Total	10	0	1	0	4	0	0	52	2	19%	42	743	2	0%	739	9	35

Div.	2018 D11NR Chart Updating Year Jan 1, 2017 to Mar 31, 2017			2018 D11NR Chart Updating Year April 1, 2017 to Dec 31, 2017			2017-2018 NOAA-NOS Chart Updating Year Apr 1, 2017 to Mar 31, 2018		
	CU Reports	2nd Ob	CUC (26)	CU Reports	2nd Ob	CUC (26)	CU Reports	2nd Ob	CUC (26)
1									
3				6		156	6		156
4									
5									
6									
8									
10									
11									
12									
Total	6	0	156	6	0	156	6		
Total D11 CU Reports 1/1/18 through 12/31/18 →			0	Total D11-NOAA CU & CUC 4/1/17 through 3/31/18 →			6	0	
Total Aids to Navigation Reports			15	Total Members Submitting ATON & CU Reports in 2017 →			3		
Total Aids to Navigation in AUXDATA*			2	2 out of 15 ATON reports showing up in AUXDATA →			13%		
Total NOAA Chart Updating Reports			6	A= ATON, P= PATON, B= Bridges, U= Unauthorized, CU=Chart Updates CUC = Chart Update Points (Stop Gap) = 26 CUP awarded by D11NR DSO-NS for each confirmation of a Report you recently submitted via NOAA's Nautical Discrepancy Report System.					
Total ATON & Chart Updating			21						

- **Note: *Red numbers above is the information from AUXINFO as of February 4, 2018 update.**
- **NOAA-NOS Chart Updating Year is from - April 1 through Mach 31 each year????**
- **D11NR Chart Updating Year is from - January 1 through December 31 each year.**
- **Note: The Green number under "2nd Ob" indicates secondary Chart Updating Observers.**
- ✓ **Note: "ALWAYS submit a 7030 for all ATON, PATON, Bridge, & Chart Updating Activity. Your work is not completed until your 7030 is in your FSO-IS hands."**
- ✓ **"Always check AUXINFO for your ATON, Bridge, & Chart Updating activity. If you don't find your activity recorded and you have submitted the proper ANSC 7030, check with your FSO-IS or SO-IS for help." If you are not satisfied always contact the DSO-NS for help.**

4. 2018 NAVIGATION SYSTEMS AUXINFO REPORT AS OF February 4th:

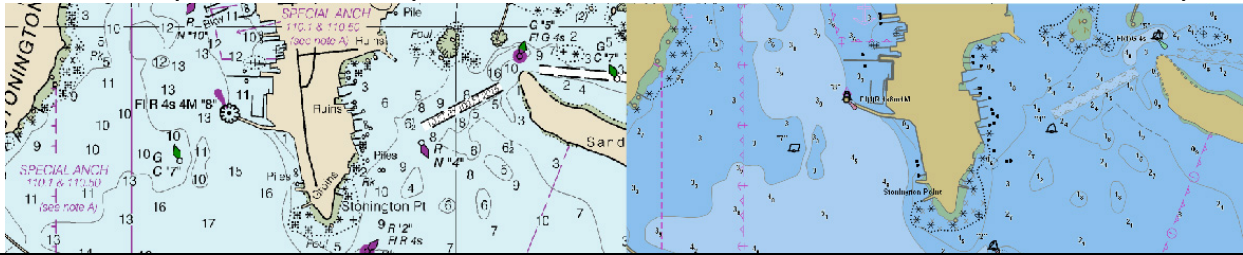
Check below to see if your activity is in AUXDATA? IF Not, Why Not? Did you submit a 7030?


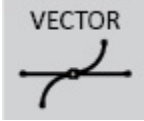
Cube last refreshed on Sunday February 4, 2018								
ATON –Aids to Navigation (30, 31, 32)	11NR – Eleventh Northern	All Facilities	All Unit Locations	All Activities	CY 2018	All Statuses	LEAD ONLY	All Operations
		BRIDGE – Bridge Administration (32)		FEDERAL – (30) Aton/chart updating		PRIVATE-Private-Aids to Navigation (31)		
		ATON Bridge Verified	ATON Bridge Discrepancy Reported	ATON Aids Verified	ATON Aid Discrepancy Reported	ATON Aids Verified	ATON Aid Discrepancy Reported	
	113-01-07 POINT BONITA							
	113-01-09 COYOTE POINT							
11NR – Div. 01								
	113-03-03 GOLD COUNTRY							
	113-03-05 SACRAMENTO							
11NR – Div. 03								
11NR – Div. 04								
	113-05-05 SONOMA COUNTY							
	113-05-07 DIABLO							
11NR – Div. 05								
113-06-10 CAPITOLA FLOTILLA	SIMPSON, BRUCE							
	113-06-10 CAPITOLA FLOTILLA							
11NR – Div. 06								
	113-08-11 CRESCENT CITY FLOTILLA							
11NR – Div. 08								
	113-10-06 KAWEAH							
11NR – Div. 10								
	113-11-01 NORTH LAKE TAHOE							
	113-11-03 RENO							
11NR – Div. 11								
	113-12-01 EAST BAY							
	113-12-91 SAN RAMON VALLEY							
11NR – Div. 12								
DISTRICT 113 TOTALS			0	0	0	0	0	

5. NOAA Office of Coast Survey has launch redesigned website:

NOAA’s Office of Coast Survey has launch the newly redesigned Website. The website feature simplified navigation and a responsive layout for all platforms, making your favorite NOAA charting products easy and convenient to find. I encourage everyone to visit and explore the site. Because of this redesign effort, many of the webpages within nauticalcharts.noaa.gov will have a new address. Please be prepared to update any bookmarks or links you may have. <https://nauticalcharts.noaa.gov>.

RNC – ENC Comparison - A comparison of NOAA’s raster and vector nautical chart products



Raster Nautical Chart (RNC)	Electronic Nautical Chart (ENC)
 <p>Information is stored as raster data — rows and columns of color pixels.</p>	 <p>Information is stored as vector data — pairs of coordinates that define the position and shape of points, lines, and area features.</p>
<p>Each RNC pixel is assigned one color to display and is georeferenced to a particular latitude and longitude.</p>	<p>Pairs of latitude and longitude coordinates define nodes that form points, lines, and areas within a database. Each of these is encoded to represent one or more features. Each feature is further encoded with attributes that describe the characteristics of a specific instance of a real world feature.</p>
<p>Each RNC pixels “knows” what color it is and its location on the Earth, but nothing else about what it represents or its position relative to other features.</p>	<p>Each ENC feature “knows” what it is and other information about itself, such as buoy shape or clearance height. It also knows its location on the Earth, as well as its topological relation to other features. For example, an international boundary feature will know which country is on each of its sides.</p>
<p>All the information available in an RNC is presented in its symbolization. Thus, some portions of raster charts are cluttered with symbols and text to present all the needed information.</p>	<p>Users may “query” the ENC data by clicking the cursor on a feature to obtain more information about it. Information, such as light characteristics need not always be displayed in ECDIS, because it can be retrieved by a cursor query.</p>
<p>RNC systems do not provide automated alarms or other indications.</p>	<p>ECDIS systems use the information in ENCs and ship information provided by the mariner, such as the ship’s draft, speed, and direction to alert mariners with visual and auditory alarms when dangerous conditions may exist.</p>
<p>The depiction of features in raster charts is through the arrangement of pixels to form symbols when the data is compiled. The symbolization cannot be changed. NOAA paper nautical charts and RNCs are created from the same digital chart images so RNCs are also displayed using “paper chart” symbolization.</p>	<p>ENC data is rendered in real-time by ECDIS navigational systems in which standardized IHO ENC symbology is stored. Mariners may choose between two ENC symbology sets to display ENCs, “simplified” and “paper chart.” Non-ECDIS systems that can display ENC data may use other symbology developed by the manufacturer.</p>
<p>Although similar, RNCs and paper nautical charts produced by different countries will have variations in colors and some of the symbols.</p>	<p>Any ECDIS will portray all ENC data with the same colors and symbols, regardless of which country produced the ENC.</p>
<p>The symbols on an RNC enlarge and become “pixelated” as one zooms into the chart.</p>	<p>The symbols on an ENC remain the same size as one zooms into the chart.</p>
<p>The selection of the features to display on RNCs is set when it is compiled and cannot change.</p>	<p>The display of certain features in ENCs may be turned on or off, based on the scale of the chart display or by settings selected by the mariner.</p>
<p>Most RNCs are compiled in a “North-up” orientation. RNCs can be rotated to a “course-up” orientation in a chart display system, but the symbols and text will become tilted as the chart is rotated.</p>	<p>ENCs have no inherent orientation. The symbols and text displayed in an ECDIS will always be displayed facing up correctly.</p>
<p>NOAA RNCs conform to the International Hydrographic Organization S-61 Product Specification for Raster Navigational Charts.</p>	<p>NOAA ENCs conform to the International Hydrographic Organization S-57 Transfer Standard for Digital Hydrographic Data.</p>

DATES OF CHART LATEST EDITION TABLE
In D11 Northern Region February 5, 2018

Chart No.	Chart Scale	Edition No.	Traditional Paper RNC Charts Edition Date	Last Correction Date from LNM Update from NOAA On-Line-Viewer & RNC & ENC Navigational Charts	
18600	196,948	15	Mar 2011	LNM 04/18	1/23/2018
18020	1,444,000	39	Jan 2012	LNM 04/18	1/23/2018
18010	811,980	22	Sep, 2012	LNM 04/18	1/23/2018
18022	868,003	36	Jun 2012	LNM 04/18	1/23/2018
18601	40,000	14	Feb 2007	LNM 04/18	1/23/2018
18602	40,000	13	Feb 2012	LNM 04/18	1/23/2018
18603	40,000	17	Mar 2012	LNM 04/18	1/23/2018
18605	15,000	13	Dec 2010	LNM 04/18	1/23/2018
18620	200,000	24	Feb 2012	LNM 04/18	1/23/2018
18622	25,000	56	APR 2016	LNM 04/18	1/23/2018
18623	40,000	12	Jan 2012	LNM 04/18	1/23/2018
18626	40,000	16	Dec 2012	LNM 04/18	1/23/2018
18628	10,000	9	Oct 2012	LNM 04/18	1/23/2018
18640	207,840	27	Oct 2015	LNM 04/18	1/23/2018
18643	30,000	18	Dec 2009	LNM 04/18	1/23/2018
18645	100,000	28	May 2013	LNM 04/18	1/23/2018
18647	40,000	16	Mar 2009	LNM 04/18	1/23/2018
18649	40,000	68	Jun 2013	LNM 04/18	1/23/2018
18650	20,000	58	Jan 2017	LNM 04/18	1/23/2018
18651	40,000	45	Dec 2013	LNM 04/18	1/23/2018
18652 SC	40,000:80,000	36	CANCELLED	2017	2017
18653	20,000	12	Oct 2012	LNM 04/18	1/23/2018
18654	40,000	45	Jan 2012	LNM 04/18	1/23/2018
18655	10,000	59	Oct 2006	LNM 04/18	1/23/2018
18656	40,000	56	Aug 2010	LNM 04/18	1/23/2018
18657	10,000	19	Nov 2005	LNM 04/18	1/23/2018
18658	10,000	31	Sep 2007	LNM 04/18	1/23/2018
18659	10,000	16	Jan 2012	LNM 04/18	1/23/2018
18660	20,000	3	Sep 2005	LNM 04/18	1/23/2018
18661 SC	40,000	30	Mar 2009	LNM 04/18	1/23/2018
18662 SC	40,000	22	May 2009	LNM 04/18	1/23/2018
18663	20,000	6	Apr 2006	LNM 04/18	1/23/2018
18664	20,000	12	Aug 26, 2000	LNM 04/18	1/23/2018
18665	40,000	11	Aug 2004	LNM 04/18	1/23/2018
18666	10,000	1	Nov 24, 2001	LNM 04/18	1/23/2018
18667	20,000	12	Aug 26, 2000	LNM 04/18	1/23/2018
18680	210,668	32	May 2013	LNM 04/18	1/23/2018
18682	20,000	15	APR 2016	LNM 04/18	1/23/2018
18685	50,000	34	Sep 2012	LNM 04/18	1/23/2018
18686	40,000	13	Jul 17, 1999	LNM 04/18	1/23/2018
18700	216,116	22	Jul 2003	LNM 04/18	1/23/2018
Coast Pilot	Volume 7	50	2018 New Edition	Last Corrected through 1/28/2018	
D11 CG Light List Weekly Updates	Volume 6	2017	Updated weekly	Last Corrected though LNM 05/18 – Dated 1/31/2018	

James B. Duncan, DSO-NS 11(NR)