



## *United States Coast Guard Auxiliary* **Prevention (Marine Safety) Department Navigation System Division (NS)**

### **WEB-BASED PRIVATE AID TO NAVIGATION SYSTEM**

#### **Section 1 – USER ACCESS**

All system users are required to log on to the Web-Based PATON System. This logon is just the first step. Access to this system is authorized by the Department Prevention Waterways (DPW), Private Aid to Navigation Manager in Boston, MA.

**SYSTEM LOGON** - Using the Internet, log on to **www.usharbormaster.com**. The User Logon Screen, shown below, will appear.

- If it does not appear, click on the word “PATON” at the left-hand end of the tool bar at the top of the screen.
- If you are a pre-registered and approved user, enter your **Username** and **Password**. Then, click on “OK.” You will be able to view Private Aids to Navigation as follows:
  - PATON Owners will be able to view only the PATONs that they own.
  - Harbormasters will be able to view only those PATONs under their jurisdiction.
  - CG ANTs and Auxiliarists will be able to view only those aids for which the CG ANT, that they are attached to, is responsible.
  - Go to page 11 to view the screen that appears when you logon.
- If you have never registered on the system, click on the words, “*Registration Form*” and the “*User Log-on Screen,*” shown below, will appear.

#### **USER LOG-ON SCREEN**

**User Login**  
If you are a registered user, please login below

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Otherwise use the **Registration Form**

Username:

Password:

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**SYSTEM REGISTRATION** – If you are not a pre-registered and approved user, click on the words “**Registration Form**” on the SYSTEM LOG-ON screen to initiate the PATON System registration process. The “**PATON REGISTRATION SCREEN**” will appear. Enter data in the fields on this form as follows:

**NAME** – These are required fields - Enter your first name and your last name in the two fields provided.

**TYPE OF USER** – This is a required field - Select one of the options from the menu:

Harbormaster – You are the waterway administrator for a municipality.

Private – You are a PATON Owner. Or, you are not a Harbormaster or a member of the USCG Auxiliary,

USCG Auxiliary – You are a member of the USCG Auxiliary.

## PATON SYSTEM USER REGISTRATION

- Indicates required fields

Name\* \_\_\_\_\_

Type of User\*      \_\_\_ Harbormaster   \_\_\_ Private Citizen   \_\_\_ USCG Auxiliary

Organization \_\_\_\_\_

Address\* \_\_\_\_\_

City\* \_\_\_\_\_

State\* \_\_\_\_\_

Zip\* \_\_\_\_\_

E-mail Address\* \_\_\_\_\_

Text Messaging Email      **Entry to this field is not required.**

Work Phone\* \_\_\_\_\_

Cell Phone \_\_\_\_\_

Cell Phone Service Provider      **Entry to this field is not required.**

Fax Number\*      If not available, enter “NA.”

What USCG station you are affiliated with?      **Entry to this field is not required**

Username\* \_\_\_\_\_

Password\* \_\_\_\_\_

### USCG AUXILIARY ADDITIONAL FIELDS:

ID Number      **Entry to this field is not required**

Division \_\_\_\_\_

Flotilla \_\_\_\_\_

Email Address      **Entry to this field is not required**

**SUBMIT REGISTRATION**

\*Indicates required fields.

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**ORGANIZATION** – This is an optional field. If someone else in your organization has registered and submitted a CG 2554, your organization has already been established. Check with the other person.

Harbormaster – Enter the name of the municipality to which you are attached.

Owner – Enter the legal name of your Corporation.

Military – Enter the official name of your organization.

USCG Auxiliary – Enter “USCG Auxiliary.”

**ADDRESS** – This is a required field. Enter the mailing address for your organization.

**CITY** – This is a required field. Enter the name of the City where your organization is located..

**STATE** – This is a required field. Select the two-letter abbreviation of the State where your organization is located. Use the drop-down menu

**ZIP** – This is a required field. Enter the Postal Zip Code where your organization is located.

**E-MAIL ADDRESS** – This is a required field. Enter you e-mail address. All communications on the PATON System are normally performed through the Internet.

**TEXT MESSAGING E-MAIL ADDRESS** – **Entry is not required.**

**WORK PHONE** – This is a required field. Enter the full number for the phone where you can be reached during normal business hours.

**CELL PHONE** – This is an optional field. If available, enter your cell phone number.

**CELL PHONE SERVICE PROVIDER** – **Entry is not required.**

**FAX NUMBER** – This is a required field. If available, enter your fax number. If you do not have a FAX, enter “NA.”

**WHAT USCG STATION ARE YOU AFFILIATED WITH?** – **Entry is not required.**

**USERNAME** – This is a required field. The data that you put in this field will be part of your access code. Keep it simple and write it down so that you will not forget it. When you are authorized as a system user, you will receive an e-mail referencing this code.

**PASSWORD** – This is a required field. The data that you put in this field will be part of your access code. Keep it simple and write it down so that you will not forget it. When you are authorized as a system user, you will receive an e-mail referencing this password.

**USCG AUXILIARY ADDITIONAL FIELDS** – When you select USCG Auxiliary as the “Type of User,” these additional fields will appear:

**ID NUMBER** – **Entry is not required.**

**DIVISION** – Enter your two-digit Division Number. Division 05 should appear as “05.”

**FLOTILLA** – Enter your two-digit Flotilla number. Flotilla 03 should appear as “03.”

**E-MAIL ADDRESS** – **Entry is not required.**

When you click on “**Submit Registration**,” a message will be transmitted to the DPW Private Aid to Navigation Manager who has the responsibility to reviewing your request and activating you as a user for the Private Aid to Navigation System. You will receive an E-Mail notification that you have been approved and showing your *Username* and *Password*.

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**AUTHORIZATION** – The DPW Private Aid to Navigation Manager reviews requests for access to the PATON System and authorizes users using three additional fields that appear for all “HQ” users.

**OPCON ASSIGNMENT** - User with “HQ” LOGON can change this field. Field is menu controlled. This assignment limits user access to specific PATONS managed by a CG ANT in the First District.

- CG ANT S West Harbor**
- CG ANT South Portland**
- CG ANT Woods Hole**
- CG ANT Boston**
- CG ANT Bristol**
- CG ANT New York**
- CG ANT Saugerties**
- CG ANT Long Isl Sound**
- CG ANT Moriches**

**TYPE OF USER** - DPW can change this field. Field is menu controlled.

Control entry with a drop-down menu, as follows:

- OWNER** – System view is limited to only the PATONs that are owned.
- POC**
- LOCAL AUTHORITY**
- USCGAUX**
- CG UNIT**
- USCG**
- PRIVATE**

**ACCESS TYPE** - DPW can change field. Entry controls amount of system capability and access that the system will allow the user, as follows:

- HM** – Access limited to those PATONs linked to the harbormaster.
- AUX** – Access limited to OPFAC assignment. Can perform PATON verifications.
- ANT** – Access limited to OPFAC assignment. Has additional capability for contacting PATON owners,
- SECTOR** – Access ???
- HQ** – Has complete access to correct and change everything on a User Registration Record.
- PRIVATE** – Access limited to those PATONs linked to the owner.

**DISABLED** – DPW can change field. When a user record is disabled, the user will be unable to access the PATON System.

## CG 2554 - PATON APPLICATION

Once approved, a Private Aid to Navigation Owner has the capability to apply for a permit to establish a Private Aid. Click on the word “Application” at the top of the screen and the “Private Aid to Navigation – CG 2554 – Entry Form” screen will appear. Below is a representation of this screen.

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### Private Aids to Navigation Application – CG2554

#### ENTRY FORM

\*Indicates required field.

First Name*	_____
Last Name*	_____
Phone*	_____
LAT*	_____
LON*	_____
E-Mail *	_____
Aid Type	<input type="checkbox"/> Fixed <input type="checkbox"/> Floating
Chain Length*	_____ (Chain length in feet.)
Depth of water*	_____ (Depth in feet)
Mooring Size/Weight*	_____ (Size/Weight in pounds)
Suggested Aid Name*	_____
Aid Purpose*	_____ (Menu)
Light Characteristic	_____
Color*	_____
Light Manufacturer	_____
Sound Signal	<input type="checkbox"/> (Menu)
Aid Height*	_____
Structure	_____
Action requested*	_____ (Menu)
Aid Duration*	_____ (Menu)
Aid Necessity*	_____
General Locality*	_____
Army Corp of Engineers PERMIT	_____
REMARKS	

#### SUBMIT APPLICATION

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Complete this application as follows:

**FIRST NAME** – This is a required field. Enter your first name.

**LAST NAME** – This is a required field. Enter your last name.

**PHONE** – This is a required field. Enter the phone number where you can be reached during normal working hours.

**LAT** – This is a required field. LAT is short for Latitude. Enter as Degrees, Minutes, and Seconds. i.e. 032-45-34.5 N.

**LON** – This is a required field. LON is short for Longitude. Enter as Degrees, Minutes and Seconds. i.e. 070-45-26.7 W.

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E-MAIL – This is a required field. Enter your E-Mail Address in this field. All communications required by this system are made via e-mail.

AID TYPE – This is a required field.

- For all buoys, click on “Floating.”
- For daymarks, lights and small lights that are permanently attached to the earth’s surface, click on “Fixed.”

CHAIN LENGTH – This is a required field.

- For buoys, enter the length of the chain or line that connects the buoy to its anchor.
- For daymarks, lights and small lights, enter “NR.”

DEPTH OF WATER – This is a required field.

- For aids on dry land, such as fixed lights, enter “NR.”
- For buoys and daymarks and small lights located in the water, enter the depth of water corrected to charted datum. The formula is “*Observed Depth*” (the reading from echo sounder) plus the “depth *correction for the echo sounder transducer’s location* to the waterline” minus the projected “*Height of Tide*” at the time when the depth was taken.
- Height of tide is available from the Almanac Screen in your GPS.

<i>Echo sounder reading</i>	23.0 feet.
PLUS - <i>Correction for vessel’s transducer</i>	+ 1.5 feet.
MINUS - <i>Height of tide at time reading was taken</i>	- 2.3 feet.
EQUALS – <u><i>Depth of Water at Datum</i></u>	<u>22.2 feet.</u>

MOORING SIZE/WEIGHT – This is a required field.

- For floating aids, enter either the size or the weight of the mooring / anchor in pounds.
- For fixed aids, enter “NR.”

SUGGESTED AID NAME – This is a required field. Follow the protocol used in the Light List for naming the aid. First show the name of the area where the aid is located, then the type of aid followed by the numbers or letters that identify the aid. Also indicate whether the aid is lighted.

Examples:

**Unlighted buoy** – Eel Pond Can “7” or OCYC Speed Buoy 1 or Revere Beach Swim Buoy.

**Lighted buoy** – Dorchester Bay Basin Lighted Buoy 4

**Small light** – Avon Harbor Light Fl R 2.5s

AID PURPOSE – This is a required field. Select an entry from this menu:

**Mark channel.** (This would be a lateral aid)

**Mark Swim Area** – This would be a Regulatory Aid.

**Mark No Wake / Speed Zone.** – This would be a Regulatory Buoy.

**Research** – This would be a Special Purpose Buoy.

**Mark Hazard** – This would be a Regulatory Buoy.

LIGHT CHARACTERISTIC – This is an optional field. For lighted aids, define the flashing characteristic and period of the light. The following abbreviations apply:

<b>F</b>	Fixed
<b>Fl</b>	Flashing
<b>Q</b>	Quick Flashing
<b>VQ</b>	Very Quick Flashing
<b>IQ</b>	Interrupted Quick Flashing
<b>ISO</b>	Isophase
<b>Grp Fl (X+X)</b>	Group Flashing
<b>AL</b>	Alternating
<b>Mo</b>	Morse Code

**Example – Fl 4s** – defines a light that is flashing every 4 seconds.

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**COLOR** – This is a required field. The color refers to the light on the aid; not the color of the aid.

- For lighted aids, enter the color of the light – **White, Red, Green or Yellow.**
- For unlighted aids, enter “NR.”

**LIGHT MANUFACTURER** – This is an optional field.

- For lighted aids, enter the name of the manufacturer and model number of the lantern.

**SOUND SIGNAL** – This is an optional field.

- Click on the box when the aid is equipped with a sound signal.
- For aids with sound signals, select the type from the drop-down menu:

**Bell**  
**Horn**  
**Whistle**

**AID HEIGHT** – This is a required field. This field refers to lighted aids only.

- For unlighted aids, enter “NR.”
- For lighted floating aids (buoys), measure the height from the waterline to the focal plane of the light—the height of the light bulb.
- For lighted fixed aids, measure the height from MHW mark (the Mean High Water level) to the focal plan of the light. MHW is the average high water mark in the area of the lighted aid. Check the General Information Block on the NOAA Chart for the MHW reference for the area where the aid is located.

**STRUCTURE** – This is an optional field.

- For fixed aids, indicate the type of structure from this menu:

Single Pile  
Multiple Pile  
Dolphin  
Tower

- For floating aids, use this field to show special features about the buoy.

**ACTION REQUESTED** – This is a required field. Select an option from the drop-down menu:

Establish and maintain throughout the year. Aid is deployed throughout the year.

Establish and maintain seasonally. Aid is removed and reset at specific times during the year. Often needed due to ice or for seasonal fishing dates on fish traps.

- In the remarks section, enter the date (month and day) when the aid is reset and removed each year.

Temporarily establish – Aid is only being deployed for a set interval of time.

- In the remarks section, enter the date (month, day and year) when the aid will be established and discontinued.

Disestablish – Aid is being discontinued.

- In the remarks section, indicate the date (month, day and year) when the aid is being discontinued.

**AID DURATION** – This is a required field. Select an entry from the drop down menu that is appropriate as possible. Data in this field is ignored at this time. However, be sure to follow the directions in the “Action Requested” field above.

**AID NECESSITY** – This is a required field. Enter the reason why the aid is needed.

**GENERAL LOCALITY** – This is an optional field. Enter the name of the waterway and/or the municipality name and state. This information assists the person reviewing your application to easily locate the aid on a chart.

**ARMY CORPS OF ENGINEERS PERMIT** – This is an optional field.

- For all fixed aids positioned in the water, an USACE PERMIT number reference in this field is required before a permit will be issued by the Coast Guard. See the First Northern Aid to Navigation Web Site for more information.

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REMARKS – This is a required field. You will need to enter some information in this field.

SUBMIT APPLICATION - By clicking on the “Submit Application” button, your report is transmitted to the DPW Private Aid to Navigation Manager for processing. The system management color code for your request is *light blue*.

## OWNER PATON APPLICATION EDIT – CG 2554

The DPW-Department Prevention - Waterways uses this report to review, update, and correct information on the owner’s submission.

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### 2554 – APPLICATION EDIT REPORT

[UPDATE LL NAME] [UPDATE WITHOUT STATUS CHANGE]

LLNR:	12130.00
AID	125
AID NAME	ALLERTON HARBOR LIGHTED BUOY 2
CLASS	II
TYPE	x Floating __ Fixed
FIRST NAME	KURT
LAST NAME	BORNHEIM
ORGANIZATION	Hull Harbormaster
PHONE	781-925-0316
LAT	42-17-56.40 N
LON	070-53-17.16 w
E-Mail	<a href="mailto:KBornheim@comcast.net">KBornheim@comcast.net</a>
Chain Length	35
Depth of Water	20
Mooring Size	200
Suggested Aid	
Name	Allerton Harbor Lighted Buoy 2
Aid Purpose	Mark Channel
Flash Length	Fl 4s
Aid Color	Red
Aid Candle Power	_____
Aid Height	4
Aid Structure	_____
Action Requested	Establish and maintain seasonally
Aid Duration	5/15 to 9/30
Aid Necessity	Mark Channel
Aid General Locality	Allerton Harbor, Hull MA
Army Corp	_____
Your comments	

**OK    RESET FORM    CANCEL**

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Complete this edit as follows:

UPDATE LL NAME – DPW controlled feature. DPW can use this feature to update or change any or all of the following fields without causing a change of status in the aid's record and without having to insert an activity note into the PATON's history record.

**LLNR, AID, AID NAME, OPFAC, UNIT RESPONSIBILITY, CLASS A and ORGANIZATION.**

UPDATE WITHOUT STATUS CHANGE – DPW controlled feature. By clicking on this field, the DPW is able to correct the other fields in a PATON record without causing a change of status in the aid's record. However, an activity remark must be entered into the PATON's history record.

LLNR – DPW controlled field. When the submitted aid is to be charted, a LLNR (Light List Number) is assigned by DPW.

- **Class I PATONs** are normally charted and listed in the Light List. A LLNR would always be assigned to this aid class.
- **Class II PATONs** may or may not be charted depending on the space available on the chart where they are located.
  - Charted Class II PATONs would be assigned a LLNR and be listed in the Light List.
  - Uncharted Class II PATONs would be assigned a LLNR and be listed in the Light List.
- **Class III PATONs** would not be assigned a LLNR and, normally, would not be listed in the Light List and not be charted.
- **All fixed PATONs** would be charted and listed in the Light List regardless of their assigned class.

AID – DPW controlled field. DPW assigns every aid an Aid Number.

AID NAME – DPW controlled field. DPW enters an official name for the PATON.

CLASS - DPW controlled field. DPW assigns a class code to each PATON.

TYPE – DPW review and/or update the owner's assignment – FL or FX.

FIRST NAME – DPW reviews the owner's first name.

LAST NAME – DPW reviews the owner's last name.

ORGANIZATION – DPW controlled field. DPW assigns or creates and enters an organization code for the owner.

PHONE – DPW reviews the owner's phone number.

LAT – DPW reviews and plots the Latitude expression received from owner and ensures that it reflects the degrees, minutes and seconds format. **[DD-MM-SS.SS N]**

LON – DPW reviews and plots the Longitude expression received from the owner and ensures that it reflects the degrees, minutes and seconds format. **[DDD-MM=SS.SS W]**

E-Mail – DPW ensures that the owner submits a proper e-mail address.

CHAIN LENGTH – DPW ensures that the owner submits a proper chain length for all floating aids.

DEPTH OF WATER – DPW ensures that the owner submits a depth of water at datum for all floating aids and all fixed aids that will be established in the water.

MOORING SIZE – DPW ensures that the owner submits a Mooring Size / Weight for all floating aids.

SUGGESTED AID NAME – Reference only

AID PURPOSE – DPW reviews the inserted purpose for the aid.

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**FLASH LENGTH** – On all lighted PATONs, DPW ensure that the owner submits a characteristic for the PATON.

**AID COLOR** – On all lighted PATONs, DPW ensures that the owner submits a light color.

**AID CANDLE POWER** – **Entry is not necessary in this field.**

**AID HEIGHT** – On all lighted PATONs, DPW ensures that the owner includes a height for the light.

**AID STRUCTURE** – On all fixed aids, DPW ensures that the owner defines the nature of the PATON's structure.

**ACTION REQUESTED** – This is a required field. DPW reviews the option reported by the owner:

Establish and maintain throughout the year. Aid is deployed throughout the year.

Establish and maintain seasonally. Aid is removed and reset at specific times during the year. Often needed due to ice or for seasonal fishing dates on fish traps.

- In the remarks section, enter the date (month and day) when the aid is reset and removed each year.

Temporarily establish – Aid is only being deployed for a set interval of time.

- In the remarks section, enter the date (month, day and year) when the aid will be established and discontinued.

Dis-establish – Aid is being discontinued.

- In the remarks section, indicate the date (month, day and year) when the aid is being discontinued.

**AID DURATION** – DPW reviews the seasonal, temporary and discontinue selections from the owner and enters the proper dates from the Remarks section in this field.

**AID NECESSITY** – This is a required field. DPW compares any entry with 'AID PURPOSE' above and deletes any entry to this field.

**GENERAL LOCALITY** – DPW reviews the owner's entry and makes any necessary corrections.

**ARMY CORP** – For all fixed aids that are located in the water, the DPW ensures that the proper permit number is referenced in this field.

**YOUR COMMENT** – DPW makes the appropriate comments for any action taken to correct the record.

**OK** – DPW clicks on the OK button to update the PATON's record. The system management color changes to \_\_\_\_\_.

**RESET FORM** – (What does it do?)

**CANCEL** - (What does it do?)

## USCG AUXILIARY AV PATON REPORT - 7054

Once approved, when an AV-Aid Verifier logs on to the Web-Based PATON System, the “Private Aids to Navigation for CG ANT \_\_\_\_\_” appears. This screen provides access to all of the PATONs (Private Aids) managed by the CG ANT to which you are affiliated when you registered on the system. The ANT affiliation is listed at the top of the screen. See Figure \_\_\_ below.

### SCREEN 5 - PRIVATE AID TO NAVIGATION SCREEN

**PRIVATE AIDS TO NAVIGATION FOR ANT \_\_\_\_\_ (1)**

STATUS	ALL
SEARCH BY:	AID NAME
SEARCH BY: _____	(10)
<input type="button" value="SEARCH (11)"/>	

www You are logged on as “ \_\_\_\_\_ ” [Log Off] (2)

[View all PATON records](#) (6)

[Entire inspection check out list.](#) (5)

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Checked out Aids: (4)

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<input type="button" value="CHECK OUT"/>	<input type="button" value="RESET / CLEAR"/>
--	--

1 \_\_ Duxbury Bay Beach Channel Buoy 7                      06/27/07 (3)  
Etc.

The screen will show:

- (1) Your CG ANT affiliation. i.e., Boston , Bristol, Woods Hole, etc.
- (2) Your “Username” after the phrase, “You are logged on as:”
- (3) All of the PATONs that have not been verified per national guidelines will be listed here.
  - Class I PATONs – annually
  - Class II PATONs – every three years,
  - Class III PATONs – every three years
- (4) Checked out Aids
  - a. Lists all of the aids that you check out for future verification.

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(5) Entire Inspection check out list.

a. This is a list of all of the aids that are currently checked out.

(6) View all PATON records.

a. Click on this sentence to view the complete list of PATONs that are attached to the CG ANT to whom you are affiliated.

(7) Click on “*Aid Name*” to sort the records alphabetically.

a. Click on an aid’s name to view a one-page Edit Report. This is a good report to print out for the aid in advance for use on-scene as a reference while on patrol.

(8) Click on “*Submit Discrepancy Report*” to print a 3-page listing for the aid or to enter your observations for the aid.

## View All PATON Records (6)

STATUS	INSPECTED (9)	LLNR	AID #	AID_NAME (7)	LAT	LON	TYPE	CLASS	UNIT	ANT	OWNER NAME	PHONE	LOCAL AUTH.	DISCREPANCY REPORT (8)
Established	6/14/2008 Frank Larkin	12154.00	2001006 75887	<a href="#">ALLERTON HARBOR BUOY 10</a>	42-18-18.300 N	070-53-26.220 W	FL	II	01-41949		KURT BORNHEIM	781-925-0316	Hull, MA	<a href="#">Submit Discrepancy report</a>
Aid Established	6/14/2008 Frank Larkin	12135.00	126	<a href="#">ALLERTON HARBOR BUOY 3</a>	42-18-06.900 N	070-53-15.480 W	FL	II	01-41949		KURT BORNHEIM	781-925-0316	Hull, MA	<a href="#">Submit Discrepancy report</a>
Aid Established	6/14/2008 Frank Larkin	12140.00	127	<a href="#">ALLERTON HARBOR BUOY 4</a>	42-18-07.140 N	070-53-14.780 W	FL	II	01-41949		KURT BORNHEIM	781-925-0316	Hull, MA	<a href="#">Submit Discrepancy report</a>

Various sorting capabilities are provided.

In AORs that strictly follow the national guidelines, check out the PATONs that you plan to verify by clicking on the small square beside the PATONs name. All of the PATONs for your CG ANT that have not been verified per the national guidelines and have not been checked out appear in Check Out section (3).

- Each aid that you select will appear in the section, “*Checked out Aids.*” (4) This allows you two weeks to perform a verification on the PATON. Failure to report a verification in the two-week time interval will cause the PATON to reappear on this list. While you still may submit a verification report on the PATON, another AV may also report.
- Focus your verification efforts on the PATONs listed in the Check Out section (3).

In AORs that have special requirements, click on “*View all PATON records.*” (6). Some CG ANT require that all lateral PATONs be checked on an annual basis, especially those that are established as seasonal.

- The system will present a list of all PATONs managed by the CG ANT, sorted in alphabetical order.
- The column entitles “*Inspected*” (8) shows the name of the AV-Aid Verifier and the date when the PATON was last verified.
- Ignore lateral PATONs that have already been verified during the current boating season.

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## Sorting and Searching Capabilities:

- The listing of aids presented when you click on, “*View all PATON records,*” **(6)** should be in alphabetical order.
- By clicking on the heading, “*Aid Name,*” **(7)** you can sort the file alphabetically either A to Z or Z to A.
- Once you have downloaded the PATON list by clicking on, “*View all PATON records,*” **(6)** you can search the file alphabetically by entering the name of the waterway **(10)** and clicking on the box, “SEARCH.” **(11)**
- Always use the return arrow to return to the full PATON File listing to avoid excessive waiting time while the system regenerates the complete file.

**Printing out forms** - Two alternative formats are available.

- Click on the “*Aid Name*” **(7)** for the short form (PATON Edit).
- Click on the “*Submit Discrepancy Report*” and print out the long form. **(9)**
- You also have the option to print the complete summary list of PATONs within the AOR. **(6)**

## SCREEN 6 – USCG AUXILIARY AV PATON REPORT 7054

### USCG AUXILIARY AV PATON REPORT 7054

#### SECTION I - PATON SPECIFICATION and OBSERVER'S INFORMATION

#### ALLERTON HARBOR LIGHTED BUOY 2

	PERMITTED	OBSERVED
PATON NUMBER	125	
PATON TYPE	FL	-- Select one --[Menu]
LIGHT LIST NUMBER	12130.00	
DEPTH (AT DATUM)	20 FT.	_____
HEIGHT OF TIDE		_____
LATITUDE	42-27-56.400 N	_____ Latitude __ N __ S
LONGITUDE	070-53-17.160 W	_____ Longitude __ N __ S
AID LOCATION	ALLERTON HARBOR HULL MA	_____
LOCATION VERIFIED BY		_____ [Menu]
LIGHT CHARACTERISTIC	(Flash Length Fl R 4s )	_____ [Menu]
	COLOR Red Light	Light Color _____ [Menu]
AID CLASS	II	
SOUND SIGNAL TYPE		_____ [Menu]

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<b>BUOY MATERIAL</b>	LB	<input type="checkbox"/> Wood	<input type="checkbox"/> Metal	<input type="checkbox"/> Plastic	<input type="checkbox"/> Foam	– Other _____
<b>STRUCTURE MATERIAL</b>	LB	<input type="checkbox"/> Wood	<input type="checkbox"/> Metal	Other _____		
<b>OPCON</b>	01-41949 CG ANT BOSTON					
<b>PATON USE</b>	Mark channel					
<b>PATON WILL BE OPERATED:</b>	5/15 to 9/30					
<b>DATE LAST REPORTED:</b>	14-AUG-2006					
<b>TIME WHEN VERIFIED “hhmm”</b>	_____					
<b>DATE OBSERVED:</b>	_____					
<b>DATE REPORTED:</b>	_____					
<b>THE OBSERVATIONS ON THIS PATON MATCH THE ENTRY IN THE LIGHT LIST, THE PATON’S PERMITTED RECORD, AND THE ENTRY FOR THIS PATON ON ITS NAUTICAL CHART.</b>						<input type="checkbox"/> YES <input type="checkbox"/> NO
<b>PATON complies with the IALA-B ATON System.</b>						<input type="checkbox"/> YES <input type="checkbox"/> NO
<b>AID IS WATCHING PROPERLY</b>						<input type="checkbox"/> YES <input type="checkbox"/> NO

## SECTION II – DESCRIPTION OF DEFICIENCY

**Check off the discrepancies that you observe on the aid.**

- PATON is off station.
- PATON is not marking the best water.
- PATON is adrift, missing or capsized.
- PATON is sinking, stranded or submerged. (Photo)
- PATON is damaged by vessel collision. (Photo)
- PATON has been vandalized. (Photo)
- Extensive bird fouling is compromising the color of a lateral PATON. (Photo)
- Peeling is compromising the color of a lateral PATON. (Photo)
- Retro material is missing, peeling or inadequate. (Photo)
- All numbers are missing on a lateral PATON. (Photo)
- Numbers missing, damaged or the wrong color. (Explain in Remarks)
- Improper light characteristics on a lighted PATON.
- Light is obscured or extinguished on a lateral PATON.
- Lantern is damaged. (Photo)
- Solar panel is damaged or oriented incorrectly. (Photo)
- Battery pack is damaged or missing. (Photo)
- Light is burning dim or showing reduced intensity.
- Missing vent valve on lighted PATON. (Photo)
- Light is obscured by dayboard. (Photo)
- Dayboard is missing or damaged. (Photo)
- Dayboards are faded so that they compromise the color of a lateral PATON. (Photo)
- Delaminated dayboards. (Photo)
- Dayboards are obscured by foliage or other objects. (Photo)
- Improper dayboards per data shown on PATON report or Light List. (Photo)

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- Sound signal failure. Show details in Comments.
- Tappers on sounding PATON are missing. (Photo)
- Radio beacon off the air or emitting the wrong signal.
- RACON is off the air.
- Structure is leaning more that 15 degrees. (Photo)
- Extensive deterioration and/or rotting members on a structure. (Photo)
- Other, show comments section for details.

## SECTION III – COMMENTS

## SECTION IV – AV SECTION

Time Started	_____
Time Ended	_____
Was PATON activity part of Authorized PATROL	<input type="checkbox"/> YES <input type="checkbox"/> NO
Verified by:	_____ (Last Name, Initials)
Member ID Number	_____
Phone:	_____ (Available during business hours)
Email Address:	_____
Division	_____
Flotilla	_____

**SUBMIT PATON REPORT**

The principal activity for the AV PATON Report is to use for notating any observed changes to the permitted specifications for the PATON and to list all observed discrepancies. Below are a list of the fields on the report with instructions for entering your observations. Note that the permitted specifications appear on the report as a reference.

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## SECTION I - PATON SPECIFICATION and OBSERVER'S INFORMATION

**PATON NAME** – The name of the PATON appears at the top of this report screen. No action is allowed. Note any problems in the Comments Section.

**PATON NUMBER** – The PATON Number from the Coast Guard I-ATONIS System appears in this field as a reference only. Do not enter any data in this field.

**PATON TYPE** – This is a required field. The abbreviations in red are the most comment referenced for private aids. Select an entry from the drop-down menu:

<b>ULB</b>	Unlighted Buoy
<b>BB</b>	Bell Buoy
<b>DBN</b>	Daybeacon
FS	
<b>GB</b>	Gong Buoy
<b>ICW</b>	Inter Continental Waterway
<b>LB</b>	Lighted Buoy
<b>LBB</b>	Lighted Bell Buoy
<b>LHB</b>	Lighted Horn Buoy
<b>LGB</b>	Light Gong Buoy
<b>LT</b>	Light
LWB	
<b>RBN</b>	Radio Beacon
<b>RRL</b>	Rear Range Light
<b>RFL</b>	Rear Front Light
S	
WB	
X	
Other	

**LIGHT LIST NUMBER** – The Light List Number for the PATON appears in this field as a reference only.

**DEPTH (AT DATUM)** – Report the Depth at DATUM as part of your observation, as follows:

	<b>Observed Depth</b> – reading from your echo sounder.
<i>PLUS</i>	<b>Correction for the transducer</b> [The distance from the transducer to the waterline.]
<i>MINUS</i>	<b>Height of Tide</b> [Take from the Almanac Screen on your GPS as you read the echo sounder]
<i>EQUALS</i>	<b>DEPTH</b> (at Datum)

Compare the depth at datum to the charted depth, do. A large discrepancy is indication that the aid has been moved or that shoaling is encroaching in the area. Show the model number and manufacturer's name of the echo sounder in the comments. Also indicate in the comments how you calibrated the echo sounder to ensure that it was operating correctly. This is an important part of your credibility.

**HEIGHT OF TIDE** – Enter the Height of Tide in feet for the time when the depth was observed. Height of Tide is available from the Almanac Screen on your GPS.

**LATITUDE** – This is a required field. Enter in the formatted field as DD-MM-SS.SS **W**.

**LONGITUDE** – This is a required field. Enter in the formatted field as DDD-MM-SS.SS **N**.

**AID LOCATION** – When the Aid Location is erroneous, enter a corrected Aid Location in this field. Otherwise, leave it blank. Don't be picky!

**LOCATION VERIFIED BY** – Select an option from the drop down menu:

- GPS – You are using a regular GPS set that doesn't have WAAS or DGPS enabled.
- WAAS – WAAS is available and enabled on the GPS set in use.
- DGPS – You are using a DGPS system.
- OTHER – Explain the method used in the "Comments" section.

Always show the Manufacturer's name and model number of your GPS in the Comments Section along with the EPE-Estimated Position Error or HDOP-Horizontal Dilution of Position reading from your set

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when you took the fix. Also indicate how you pre-calibrated your GPS and whether it was operating in 3D or 3D Differential when the fix was taken. This information add great credibility to your report.

**LIGHT CHARACTERISTIC** – When the PATON is lighted and the light characteristic is missing or erroneous, select the correct light characteristic from this list:

<b>F</b>	Fixed
<b>Fl</b>	Flashing
<b>Q</b>	Quick Flashing
<b>VQ</b>	Very Quick Flashing
<b>IQ</b>	Interrupted Quick Flashing
<b>ISO</b>	Isophase
<b>Grp Fl (X+X)</b>	Group Flashing
<b>AL</b>	Alternating
<b>Mo</b>	Morse Code

**FLASH LENGTH** – When the PATON is lighted, the *Flash Length* or Light Period will appear in the Permitted column. The menu beside Flash Length can be used to report the observed light color from a drop-down menu – Red, Green, White or Yellow. Enter the complete observed light characteristic in the field labeled, *Light Color*. i.e, A light flashing red every four seconds would be entered as “FL R 4s.” Use the light period abbreviations listed above where possible.

**AID CLASS** – This is a reference field only. Aid Class is assigned by DPW.

**SOUND SIGNAL TYPE** – When the aid is permitted to have a sound signal and the sound signal is missing or erroneous, select the observed sound signal from the drop down menu. Included a photo as evidence of your observation.

**Bell, Gong, Horn, Whistle or Electronic.**

**BUOY MATERIAL** – When the aid is permitted as Floating and the buoy material reference is missing or erroneous, enter the observed material by checking the appropriate box:

**Wood, Metal, Plastic, Foam or Other** \_\_\_\_\_

**STRUCTURE MATERIAL** – This is a required field. When an aid is permitted as Fixed and the structure material reference is missing or erroneous, select the observed material by checking the appropriate box:

**Wood, Metal or Other** \_\_\_\_\_

**OPCON** – The CG ANT that manages the PATON is referenced in this field.

**PATON USE** – The permitted use of the PATON is referenced in this field. Indicate any observed issues in the Comments section.

**PATON WILL BE OPERATED** - The duration when the PATON is permitted to be operated is referenced in this field. Duration is required for seasonal and temporary PATONs

**DATE LAST REPORTED** – The date when the PATON was last verified is referenced in this field.

**TIME WHEN VERIFIED** – This is a required field. Enter the time using the 24-hour clock when you verified the PATON. Use hh:mm as the entry format.

**DATE OBSERVED** – This is a required field. Enter the date when the PATON was verified.

**DATE REPORTED** – This is a required field. Enter the date when the PATON Verification Report is submitted.

**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.** – This is a required field. Respond with either a YES or a NO answer. When the PATON is neither listed in the Light List nor charted on a NOAA chart, answer NO. Always explain your choice in the Comments section.

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PATON complies with the IALA-B ATON System – This is a required field. Respond with either a YES or a NO answer. The PATON may comply with the permitted specification but still not comply with IALA-B specifications in which case you would answer NO. i.e. A red barrel would not comply with IALA-B specifications. *IALA-B specification relates to lateral aids to navigation only.*

AID IS WATCHING PROPERLY – This is a required field. An Aid is watching properly only when you have not observed any permitted specification errors, not checked any discrepancies in Section II above or not found no documentation errors in the Light List or on the NOAA Chart.

## SECTION II – DESCRIPTION OF DEFICIENCY

Check each discrepancy that is observed on the aid.

## SECTION III – COMMENTS

Always show the following data for fixes:

- The Manufacturer’s name and model number of your GPS.
- EPE-Estimated Position Error or HDOP-Horizontal Dilution of Position reading on your GPA when the fix was taken.
- Indicate how you pre-calibrated your GPS.
- Indicate whether your GPS was operating in 3D or 3D Differential when the fix was taken.

Always show the following data for depths:

- The model number and manufacturer’s name of the echo sounder.
- Indicate how you calibrated the echo sounder to ensure that it was operating correctly.
- Indicate the date and time when the depth was taken.

Include any explanations that will improve the clarity and credibility of your observations.

## GPS STATEMENT

Here is an example of a GPS and Echo Sounder message statement. To save time, prepare a similar message. Then copy and paste it on each report. Note that you will only have to change the EPE or HDOP input for each aid that you report. Here is a good example of a GPS Statement.

**“Location was checked by a GPS 76 by Garmin with WAAS enabled and was pre-calibrated with a known location at the dock. GPS was operating in 3D Differential. EPE was      ft. Echo sounder was a Wide 100 by Hummingbird that was checked for accuracy at the dock by calculation against a known depth. Depths are adjusted to charted DATUM using a      ft. transducer correction and the Height of Tide at Substation \_\_\_\_\_.”**

## SECTION IV – AV SECTION

Time Started: **Do not use this field.**

Time Completed: **Do not use this field.**

Was PATON activity part of an authorized patrol? **Do not use this field.**

Verified by: - Enter your Last Name and Initials.

Phone – Enter the phone number where you can be reached during normal business hours.

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E-mail address – Enter your E-mail address.

Division – Enter your two-digit DIVISION number

Flotilla – Enter your two-digit FLOTILLA number.

## SUBMIT PATON REPORT

When you click on “Submit PATON Report” your report is transmitted immediately to the CG ANT Chief, the DPW Private Aid to Navigation Manager and the DSO-AN or designate. There is no way to get it back. Also it becomes part of the official record and history for the PATON that you observed. Be sure to review your report, before you hit the button. Your credibility with the ANT Chief is at stake.

## **USCG AUXILIARY ANT PATON REPORT - 7054**

This report is the same as the USCG AUXILIARY PATON Report – 7054 but with the addition of Section II Description of Deficiency. All discrepancies checked on the AV Report appear in this section.