

NS-AN04 7054 AID TO NAVIGATION REPORT - Field Explanations

GENERAL - This form is used to report discrepancies observed on Federal and private aids to navigation, such as buoys, lights, day beacons, ranges, and electronic aids, which are owned or operated by Federal Government. A complete listing of reportable aids can be found in the *NS-AN02 Auxiliary Short Range Aid to Navigation Training Guide*. Discrepancy reports should contain as much information as possible as well as digital photos as evidence of the problem being observed. Such detail will not only assist in prompt correction of deficiencies, but also may serve as defense in cases of liability.

Never report Federal aids found watching properly to the Coast Guard unless the Coast Guard specifically requests a report. Any activity related to checking aids to navigation that are found discrepant should always be reported to the AUXDATA System on an **7030 Activity Report – Mission - Individual**. Credits for annual AN awards occur only when ANSC 7030 reports are recorded in AUXDATA. Access to the 7030 report is now built into the Web-Based PATON Reporting System.

Charting errors on aids, such as names, numbers, symbols, colors and abbreviations of characteristics, should also be reported as Chart Updates to NOAA on an **NS-CU03 Chart Update Report**.

SECTION TOP

Report Type: Check whether you are reporting a discrepancy or a Non-Permitted private aid to navigation.

SECTION 1 - OBSERVER'S IDENTIFICATION

LAST NAME, FIRST NAME AND INITIAL: Enter your last name and initials.

AV QUAL: Check whether or not you are AV qualified.

TELEPHONE NUMBER: Enter the telephone number where you can be reached during normal business hours.

UNIT (DIST/DIV/FLOT): Enter a three-digit District, a two-digit Division and a two-digit Flotilla code, i.e., 013-10-07, etc

DATE OBSERVED: Enter the date when the discrepancy was observed, formatted as dd-mmm-yy, i.e., 23-MAR-09.

TIME OBSERVED: Enter the time when the discrepancy was observed, formatted as hh/mm. i.e., 1455.

OPCON: Enter the name or the Coast Guard unit for whom you are working.

E-MAIL ADDRESS: Enter your E-mail address. "NONE" is an acceptable entry.

SECTION 2 - COAST GUARD NOTIFICATION - USE ONLY WHEN YOU HAVE COMMUNICATED THE DISCREPANCY DIRECTLY TO A COAST GUARD AGENCY BY PHONE, RADIO OR E-MAIL.

When an aid discrepancy is classified as Critical or Urgent, it is necessary to communicate the problem directly with the appropriate CG Unit or agency by the most expeditious method available. Enter the date and time when the verbal report was made.

- o Many districts do not require a hard copy report when a verbal report is made directly to a Coast Guard unit. Many CG Units find duplicate reports confusing and superfluous. Follow your District's rules for follow up reporting.
- The purpose of this section is to avoid or minimize incidents of report duplication and the time wasted tracking them down.
- Routine discrepancies are usually communicated by hard-copy reports so it is not necessary to use this section for routine reports.

COAST GUARD UNIT NOTIFIED: Enter the name of the CG ANT, Unit or Agency that was notified.

TIME NOTIFIED: Enter the time when the CG Unit or agency was notified, using the 24-hour clock, formatted as: [hhmm].

DATE REPORTED: Enter the date when the CG Unit or agency was notified.

COMMUNICATION METHOD Select one method from the drop down menu:

RADIO
TELEPHONE
E-MAIL
OTHER - See Comments.

Section 3 – AID IDENTIFICATION

AID OWNERSHIP: Check the ownership for the aid being reported.

COAST GUARD (Federal Short Range Aid to Navigation-ATON)
PRIVATE (Private Aid to Navigation-PATON)
USACE (US Army Corps of Engineers)
NOAA
STATE
OTHER, see comments.

LLNR: Enter the Light List Number in this field.

OFFICIAL NAME OF THE AID BEING REPORTED: When reporting a Federal Aid (AtoN), report the full description as published in the Light List.

AID NUMBER If needed for clarification, enter the Aid Number for the aid in this field. Every aid to navigation should have an Aid Number.

MILE MARKER: When aid is on the Western Rivers, enter the mile marker number for the aid.

CHART NUMBER: Enter the chart number for the largest scale NOAA chart where this aid is located. The number for a NOAA chart is found in the lower left-hand corner of the chart.

CHART EDITION: Enter the edition for the chart you are using. The Chart Edition of a NOAA chart is usually found on the lower left-hand corner of the chart.

CHART DATE: Enter the publication date for the chart you are using. The Chart Date of a NOAA chart is usually found on the lower left-hand corner of the chart.

Section 4 – HORIZONTAL AND VERTICAL LOCATIONS

LATITUDE: Enter the latitude of the aid formatted as **DD-MM-SS.SS N**.

LONGITUDE: Enter the longitude of the aid formatted as **DDD-MM-SS.SS W**.

GPS DATUM: Indicate the Horizontal Datum that is set up in your GPS from the drop down menu. This datum should match the horizontal datum on the nautical chart you are using in order to produce accurate reports about the location of the object.

WGS84

NAD83

OTHER, see Comments.

METHOD USED TO TAKE FIX: Indicate the locating technology that you used to obtain the fix that you are reporting from the drop down menu.

GPS

DGPS

GPW with WAAS

OTHER, see Comments.

N/A

QC (QUALITY) CHECK: Indicate the type of quality report that was used to define the accuracy of the reported fix from the drop down menu.

EPE (Estimated Position Error)

HDOP (Horizontal Dilution of Position)

OTHER (Explain in comments.)

QC-QUALITY READING: Enter the quality reading from your GPS set as defined by the selection made in the “QC-Quality Check” field above. EPE readings are reported in feet. HDOP readings are numerical expressions. The highest quality HDOP readings range between 1 and 2.

TIME WHEN TAKEN: Enter the time when the fix was taken, formatted as HHMM, using the 24-hour clock.

OFFICIAL NAME OF LOCATION: Enter the name of the locality where the aid is charted.

GPS MANUFACTURER AND MODEL NUMBER: Enter the name of the manufacturer and the model number of the GPS set used to take the reported fix.

GPS OPERATION: Enter the operating condition of your GPS when the fix was taken from the Drop-Down Menu. Accuracy guidelines require 3D or 3D Differential operation.

2 D (less than three satellites are being read by your GPS. Expect high EPE and HDOP readings)

3 D (three or more satellites are being read by your GPS)

3 D Differential (four or more satellites are being read by your GPS)

Not Taken

CHARTED DEPTH: Enter the depth as charted on the NOAA chart for the area where the aid is located. Otherwise, enter zero

DEPTH DIFFERENCE: When a Charted Depth is entered, the system calculates and reports the difference to the reported depth corrected for charted datum. Review this difference and make a comment, if necessary.

METHOD USED FOR DEPTH: Indicate the tool used to determine the depth alongside the aid from the list.

ECHO SOUNDER

LEAD LINE

SOUNDING POLE

DEPTH NOT TAKEN

OTHER, explain in comments.

MANUFACTURER AND MODEL NUMBER: Enter the name of the manufacturer and the model number when an echo sounder is used to take the depth..

OBSERVED DEPTH: Enter the depth that you observe. When using an echo sounder, enter the reading directly from the echo sounder.

TRANSDUCER CORRECTION: When an echo sounder is used, enter the distance from the mounted position of the echo sounder's transducer to the water line. Enter a zero in this field when not applicable.

HEIGHT OF TIDE: When operating in a tidal zone, enter the Height of Tide for the time when the depth was observed. Take this data from the almanac screen on your GPS. Be sure to reference the closest substation. Also, this field can be used for normal pool corrections on rivers and other controlled basins and waterways.

CORRECTED DEPTH: Review the calculated depth difference and use the Comments section to explain any concerns.

TIME OF OBSERVATION: Enter the time when you recorded the depth of the water at the aid, using the 24-hour clock, formatted as HHMM.

SECTION 5 - AID TO NAVIGATION CHARACTERISTICS

TYPE OF AID: Check [X] all of the listed items that define the aid. Multiple selections are allowed.

FLOATING BUOY
FIXED STRUCTURE
LIGHTED
SOUNDING CAPABILITY
ELECTRONIC DEVICES
RADAR REFLECTOR
OTHER, explain in Comments.

TYPE OF BUOY: Check [X] the material type that best describes the floating buoy.

WOOD
METAL
FOAM
PLASTIC
OTHER, explain in the Comments.

STRUCTURE MAKEUP: If aid is fixed, select the attributes that best describe the structure.. Multiple selections are allowed.

WOOD
METAL
SINGLE PILE
MULTIPLE PILE
DOLPHIN
OTHER, explain in Comments.

LIGHT COLOR: If aid is lighted, select the color of the light that the aid displays.

RED
GREEN
WHITE
YELLOW
OTHER, explain in Comments.

SOUNDING DEVICE: When "Sounding Aid is selected in "Type of Aid" above, report the type of sounding device on the aid.

BELL
GONG
HORN
WHISTLE
ELECTRONIC
OTHER, explain in Comments.

ELECTRONIC DEVICE: When "Electronic Device" is selected above, check [X] the type of electronic device on the aid.

RACON
FOG DETECTOR
WIND GENERATOR
ELECTRONIC TRANSFORMER STATION
METEOROLOGICAL STATION
WIND MEASURING MAST
OTHER, explain in Comments.

SECTION 6 – DISCREPANCIES OBSERVED ON AIDS

LOCATION DISCREPANCIES: Check off [X] any location discrepancies that apply.

1. Aid is off-station. [Explain or submit a NS-CU07 Horizontal and Vertical Calculator as evidence.]
2. Aid is adrift. [Explain in comments.]
3. Aid is missing. [Explain method used to make determination in Comments.]
4. Aid is not marking the best water. [Explain in Comments.]

CONDITION DISCREPANCIES: Check off [X] any condition discrepancies that apply.

1. Aid is sinking. [Photo]
2. Aid is stranded. [Photo]
3. Aid has capsized. [Photo]
4. Aid is damaged by vessel collision. [Photo]
5. Extensive bird fowling on aid. [Photo]
6. Paint peeling or rust is obscuring aid color. [Photo]
7. Numbers are missing on a lateral aid. [Photo]
8. Numbers or letters are damaged on aid. [Photo]
9. Retro-reflective material problem. [Photo]
10. Fixed aid is leaning more than 15° [Photo]
11. Extensive deterioration and/or rotting on members on a structure. [Photo]

LIGHTING DISCREPANCIES: Check off [X] any lighting discrepancies that apply.

1. Improper characteristics on a lighted aid. [Explain in comments.]
2. Light is obscured or extinguished.
3. Light is burning dim.
4. Light is obscured with a dayboard. [Photo]
5. Lantern is damaged. [Photo]
6. Battery pack is missing or damaged. [Photo]
7. Solar panel is damaged. [Photo]
8. Solar panel is oriented incorrectly. [Explain in Comments.]
9. Missing or damaged vent valve. [Photo]
10. Lamp is the wrong color. [Explain in Comments.]
11. Lantern is missing. [Photo and explain in Comments.]

DAYBOARD DISCREPANCIES: Check off [X] any dayboard discrepancies that apply.

1. Dayboard(s) is missing. (Photo)
2. Dayboard(s) is damaged. (Photo)
3. Dayboard(s) is faded so color is compromised. [Color Photo]
4. Dayboard(s) is delaminating. [Photo]
5. Dayboard(s) is obscured by foliage or brush. [Photo]
6. Improper Dayboard(s) displayed per aid specification. [Photo]

OTHER DISCREPANCIES: Check off [X] any other discrepancies that apply.

1. Sound signal discrepancy. [Photo and explain in comments.]
2. Radio Beacon is off the aid.
3. Radio beacon is emitting the wrong signal.
4. RACON is not operating.

DOCUMENTATION AND SPECIFICATION CHECKS: Check off [X] any that apply.

1. Observed aid does not match the entry for this aid in the Light List. [Explain in Comments.]
2. Observed lateral aid does not comply with the IALA-B System standards. [Explain in Comments.]
3. Observed aid does not match the charted symbols and abbreviations on a NOAA Chart.
[Also submit a CU- Chart Update Report to NOAA.]
4. OBSERVED AID DOES NOT COMPLY WITH THE DATA SHOWN IN THE COAST PILOT. Explain in Comments.

SECTION 7 – NON-PERMITTED AIDS TO NAVIGATION.

Fill in as much information as you can regarding the owner of the reported aid. This is necessary for the CG ANT in order to make a proper contact and advise the owner to submit a PATON Application to DPW 1

OWNERS NAME: If known, enter the name of the owner.

OWNERS TELEPHONE NUMBER: If known, enter the owner's telephone number.

OWNERS E-MAIL ADDRESS: If known, enter the owner's e-mail address.

OWNERS STREET ADDRESS: If known, provide a mailing address for the owner.

CITY, STATE AND ZIP CODE: If know, complete the owner's street address.

PERSON OF CONTACT E-MAIL ADDRESS: If known, enter the e-mail address for the person to contact regarding this aid.

LOCAL WATERWAY ADMINISTRATOR / HARBORMASTER: If known, enter the name of the local official in charge of Private Aids.

TELEPHONE NUMBER: If known, enter the telephone number for the local official in charge of Private Aids.

WATERWAY ADMINISTRATOR'S E-MAIL ADDRESS: Enter the e-mail address for the local official in charge of Private aids.

SECTION 8 – COMMENTS

Enter any appropriate or required comments that helps support and prove your observations. List any special evidence or photos that are attached to this report.

DATE SUBMITTED: Enter the date when you mail, e-mail or fax your report.

Send your report with attached photos and other supporting evidence to the Auxiliary Liaison assigned to the CG ANT in the AOR where the aid is located.