USCG Electronic Aids-to-Navigation (eATON) Station Addendum

eATON NAME TBD

MMSI TBD

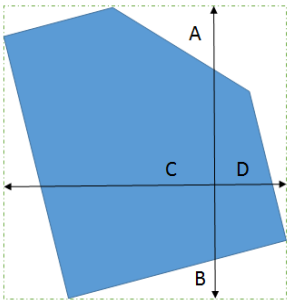
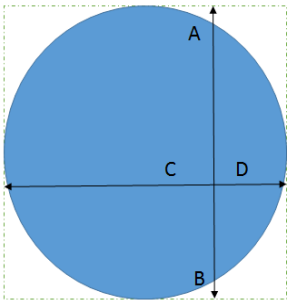
Details of the eATON Station

Select whether new or existing...

If synthetic or virtual, denote the MMSI's of the source eATON transmissions.

Parameter	Values	Description & Default Values
Make & Model: FCC Approval #: Retailer:		Provide the make, model, FCC approval number (denoted on the backside label), and, the retailer of the device.
AIS Station Type	Select... Select...	Denote AIS AtoN station type & whether dual or single channel (see IALA A-126).
Power Source Main: Back-up:	Select... Select...	Denote main & back-up power source (i.e. electric utility, on-site generator, solar panels, rechargeable battery, universal power supply, back-up generator).
Transmit Power	12.5 W	Denote transmit power if defined by manufacturer. Default: 12.5 W.
TxCapability	Select...	Denote whether the station can transmit on other channels, other than AIS1/2.
Receive On-times	N/A	Denote receiver on times. Default: Not Applicable (N/A).
Type of Electronic Position Fixing Device (EPFS)	Select...	Denote the EPFS used for the transmited postion. Default: Not Acceptable **Fixed, synthetic or virtual AtoN shall provide a position that is either published (e.g. Light List); survey derived, or, at minimun the mean of of at least 500 RAIM GPS position reports spread across a 24-hour sampling period.**
RAIM Capability	Select...	Denote whether the EPFS has Receiver Autonomous Integrity Monitoring (RAIM) capability. Default=0=RAIM Not Used.
UTC Synchronization	Select...	Denote direct, indirect or semaphore time synchronization. Default: Direct.
Assigned Mode Flag	Select...	Denote station operating mode: 0=Station operating in autonomous & continuous mode; 1=Station operating in assigned mode. Default=Autonomous & Continuous.
Access Scheme	N/A	Denote the AIS access scheme used by this station. If using FATDMA denote the slot used. Note, the USCG does not reserve FATDMA slots in the USA.

eATON Encoding and Position

USCG AtoN Light List Name & Nr.	LLNR	Denote the AtoN Name and Number as it will appear in USCG Light List.
Type of AtoN	Select...	Denote the nature & type of AtoN (Codes 0-31, see IALA A-126). **Note, not the same as AIS ATON Station Type 1-3. Default=Type Not Specified.**
AtoN Status	00000000	Denote status indicators supported; default=0000000=Not Specified. For status pages, see IALA A-126.
Latitude & Longitude of the Boadcast Location	LATiTUDE: 33.3625 LONGITUDE: 119.596	The latitude & longitude WGS84 position of the station broadcast antenna**; expressed in 1/10 000 of a minute of arc (i.e. 31.00001'N, 121.00001'W).** * For Virtual or Synthetic AIS ATON, provide additonal position(s), type & name(s) in the 'Additional Details' section.
Dimension / Reference for Position of Broadcast Antenna	A= = Always True North B= C= D=	  Default: A=B=C=D=0 used only for a Reference Point; for others ABCD>0, and should denote the rectangular area of the physical ATON or the obstruction the eATON is marking.
Msg 21 Report Rate & Channel	Select... Select...	Denote the msg 21 report rate and the channels. If this AIS ATON station is soley deployed for eMSI/virtual/synthetic ATONs broadcasts, thence just 1/day.
Off-Position Threshold		The off-position monitoring thershold for a floating AIS ATON should be set to: = (√(Chain Length2 - Water Depth2) *110%) meters.
Transmit Antenna Height (ASL)		The height of the broadcast antenna **in meters above sea level (ASL)**.

Other Transmitted Messages

List other AIS messages (msg) to be transmitted, their details, report rate(s), and additional comments.

Application Specific Messages (AIS messages 6, 8, 25 or 26) shall include their designated area code (DAC), function indentifier (FI), and, version number (as denoted at http://www.e-navigation.nl/asm); and, thier report rate that (preferably) that alternates on AIS 1&2), but, not more than once/minute or less than once every 8 min.

Message 12 or 14 may only be used for unique safety related purposes, using pre-formatted text (include text in the 'Additional Details' section).

Msg#	DAC#	FI#	Ver.	Report Rate	Channel(s)	Msg Name and Additional Comments.
N/A	000			Select...	Select...	
N/A	000			Select...	Select...	
N/A	000			Select...	Select...	
N/A	000			Select...	Select...	
N/A	000			Select...	Select...	

Additional Details | Concept of Operations (CONOPS)

How & who will be configuring, deploying, monitoring, maintaining & using the station, i.e.: (1) standard presentation interface (PI) sentences (i.e. IEC 61162 series); (2) standard AIS AtoN configuration messages; and/or (3) proprietary sentences or binary configuration messages; & whether via the AIS VHF Data-Link (VDL) and/or by other means. Its concept & period of operation, etc. Whether the station will also broadcast Virtual ATONs, and, the total number and position(s) of each one.

Final approval is conditional upon (VHF-FM 161.975 MHz and 162.025 MHz) proper licensing or authorization by either the Federal Communications Commission (FCC) or National Telecommunications Information Agency (NTIA)

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AIS ATON operations shall be ceased immediately whenever this station(s) is not operating as stated in this addendum; and, the approving official and cgnav@uscg.mil shall be notified.