

U.S. Department of
Homeland Security

United States
Coast Guard



Commandant
United States Coast Guard

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16516
August 7, 2003

Tideland Signal Corporation
P. O. Box 52430
Houston, TX 77052-2430

Dear Sir:

This is in response to your letter requesting a change in the designation of your sound signals certified for use on structures as required by 33 Code of Federal Regulations Part 67.

Your request is approved. District Commanders may accept future private aids applications listing Audiobeam AB-860, Audiobeam AB-560 and Audiobeam AB-26 as the desired sound signal. Present authorizations for AB-860, AB-560 and AB-26 remain in effect. However, new applications using those designations will not be accepted.

Sincerely,

A handwritten signature in cursive script that reads "W. J. Burns, III".

W. J. BURNS
Lieutenant Commander, U. S. Coast Guard
Chief Short Range Aids to Navigation Division
By direction

Copy: All Coast Guard District (oan)

Exhibit B (3 pages)



DEPARTMENT OF TRANSPORTATION
UNITED STATES COAST GUARD

MAILING ADDRESS:
U.S. COAST GUARD (G-WAN-
400 SEVENTH STREET SW.
WASHINGTON, D.C. 20390
PHONE: 202-426-1973

• 3266/2

26 FEB 1974

Mr. S.N. Sprunt, President
Tideland Signal Corporation
P.O. Box 52430
Houston, Texas 77052

Dear Mr. Sprunt:

Your tests of the AB-26 and AB-560 fog signals as witnessed by the Coast Guard in Houston, Texas in June 1973 have shown that these signals are capable of meeting the requirements of 33 CFR 67.10.

These signals were observed as producing the sound pressure levels required by 33 CFR 67.10 when operating at the indicated frequency and input power to the emitters and utilizing the indicated power supply:

<u>Model</u>	<u>Range</u>	<u>Power Supply</u>	<u>Power to Emitter</u>
AB-26	½ mile	Preproduction model	13 watts @ 660Hz
AB-560	2 miles	Preproduction model	66 watts @ 66 watts 645Hz

Therefore you are authorized to identify the fog signals tested and identical production models as "Coast Guard approved." You are hereby authorized to vary the design and construction of the power supply to any of the above signals without changing the fog signal model designation and without affecting the Coast Guard approval so long as the fog signal produces the required sound pressure level.

"Coast Guard approved" signals shall be permanently marked with the following information:

1. A statement that the signal was approved by the Coast Guard on November 30, 1973.
2. Name of manufacturer and date of manufacture.
3. Model designation and approved range as listed in the second paragraph of this letter.
4. The necessary input power to the emitter at a specific frequency to meet the sound pressure level requirements of 33 CFR 67.10.

Subj: Approval of fog signals'

5. The necessary input power to the entire signal to meet the sound pressure level requirements of 33 CFR 67.10. This value is to be determined by the manufacturer dependent upon the physical properties of each individual fog signal. Hence, your entire signal input power requirements may vary among signals of the same designation.

In granting approvals the Coast Guard does not specify tolerances on electrical or acoustical properties. Responsibility lies with the manufacturer to specify the power inputs required for his equipment to satisfy federal regulations. You are encouraged, therefore, to apply appropriate safety factors when you determine the power levels necessary for the above approved fog signals to satisfy 33 CFR 67.10. Both the emitter and entire signal input power requirements marked on the signals should account amply for manufacturing tolerances, performance variances, lifetime degradation, and any electrical and acoustical characteristics which, if overlooked, could result in sound pressure levels inferior to those required by 33 CFR 67.10.

A statement of the analysis procedure along with the analysis results have been forwarded to you.

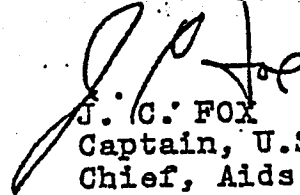
We plan to illustrate the directive that will promulgate the new fog signal approvals and would appreciate your assistance by providing a reproducible 8½ x 11" engineering drawing of each fog signal. The drawing should show the signal as it was tested at Houston and show the location of the power supply with reference to the emitter.

Effective 30 November 1973 Coast Guard district commanders will accept applications proposing installation of the AB-26 or AB-560 fog signals.

Subj: Approval of fog signals'

The Coast Guard encourages that, when you provide a customer with a pre-1973 signal, you advise him of the power necessary for the entire signal and the power at a specific frequency necessary for the emitter to meet the sound pressure level requirements of the pre-1973 regulations. Again, we recommend that an appropriate safety factor be applied.

Sincerely,



J. C. FOX
Captain, U.S. Coast Guard
Chief, Aids to Navigation Division
By direction of the Commandant

TWO-MILE FOG SIGNALS APPROVED UNDER 1973 REGULATIONS

The following fog signals were observed as producing the sound pressure levels required by 33 CFR 67.10 (as effective 1 January 1973) for a two-mile signal when operating at the indicated frequency and input power to the emitters and thus were approved as such by the Coast Guard:

<u>MODEL</u>	<u>MANUFACTURER</u>	<u>POWER TO EMITTER</u>
AB-560	Tideland Signal Corp.	66 watts at 645 Hz
AB-860	" " "	40 watts at 645 Hz
DA-8	Automatic Power Inc.	80 watts at 732 Hz
ELU-300/02	" " "	1100 watts at 300 Hz
ELU-500/04	" " "	420 watts at 500 Hz
ELU-500/04-EX	" " "	540 watts at 500 Hz
FA-390/4	" " "	86 watts at 390 Hz
FG-850/2	" " "	65 watts at 855 Hz
FG-850/2A	" " "	68 watts at 854 Hz
SA-850/3	" " "	67 watts at 850 Hz
SA-850/3A	" " "	" " " " "
SA-850/03-EX	" " "	" " " " "
SA-850/03-HA	" " "	" " " " "
SA-850/03A-EX	" " "	" " " " "
SA-850/03A-HA	" " "	" " " " "
SA-850/4	" " "	60 or 62 watts at 845 Hz
SA-850/4A	" " "	42 watts at 834 Hz
SA-850/4A-EX	" " "	38 watts at 834 Hz
SA-850/4A-HA	" " "	" " " " "
LIET-710-2B	Navigational & Safety Aids,	56 watts at 674 Hz
LIET-710-2M	Inc. (AGA)	51 watts at 671 Hz
K-4-1-EN	Airchime Mfg. Co.	113 to 125 psi at horn*
KM-4-135-EN	" " "	81.5 psi at horn*
Q3-3841	Kahlenberg Brothers Co.	97 psi at horn*
D4-2242C	" " "	52 psi at horn*
Q4-4841C	" " "	55 psi at horn*
Q4-4842C	" " "	84.5 psi at horn*
Q4-4843C	" " "	42 psi at horn*

* minimum air pressure requirement for air horns