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Buffalo Breakwater
North End Light-
Station, N. Y.

May 29, 1911.

The Inspector of

The Tenth Lighthouse District,

Buffalo, N. Y.

Sir:-

Referring to your letter dated May 4, 1911, requesting information relative to the fog-signal plant to be installed at Buffalo Breakwater North End Light-Station, N. Y., you are advised as follows:-

2. The Bureau has recently given directions that a number of fog-signal plants in the Service be supplied with reserve compressed air reservoirs and the Inspectors of the Districts in which these signals are located have been requested to write you direct sending plans, descriptions, costs, &c., for your information.

3. The outfit at Cape Henry Light-Station, Va., has been in use for a number of years and has given satisfaction but as the engines can be started in five minutes, the reserve, as far as known to this Office, has not been drawn upon for a greater length of time. The plant consists of 6-inch automatic sirens which are blown at a pressure of 40 lbs. per square inch. The engines are 15 H.P. Hornsby-Akroyd oil engines geared to 8" x 10" Herron & Bury air compressors on the same base. There are 5 storage tanks, one 3'6" x 8'0"

low pressure and four 2'8" x 10'0" high pressure receivers, the safety valves on the former being set for 40 and on the latter for 60 pounds per square inch; there is a 2-1/2" Foster reducing valve between the low pressure and high pressure receivers. The characteristic is blast 4 seconds, silent interval 41 seconds which is equivalent to about 5-1/3 seconds of blast per minute. The Inspector of the Fifth Lighthouse District has been requested to send you complete data as noted above.

4. The fog-signal plant at New London Ledge Light-Station, Conn., will carry a reserve sufficient for about 17 minutes. It consists of 6-inch automatic sirens which are blown at 35 pounds per square inch. The engines are 16 H.P. Hornsby-Akroyd oil engines geared to Herron & Bury air compressors on the same base. There are 2 storage tanks, one 3'6" x 8'0" low pressure and one 2'6" x 8'0" high pressure receivers in the main plant, which requires 20 minutes to start. The characteristic is blast 3 seconds, silent interval 17 seconds, or 9 seconds of blast per minute. In order to start the plant immediately there is about to be installed a 4 H.P. Hornsby-Akroyd oil engine on the same shaft with a 3-3/4" x 2" x 3" two stage air compressor which will store air at 225 pounds per square inch in three 2'9" x 15'0" air receivers; the latter will be connected with the receivers of the main plant.

5. The Inspectors of the First, Eleventh, Twelfth and Seventeenth Lighthouse Districts will also advise you in regard to the plants in their Districts.

Respectfully,

JSC absent TSC

Acting Commissioner.

HBB

TSC