JFF

Excellent!

Carter, Jones and Taylor,
448 Associates Building,
South Bend, Indiana.

November 19, 1940

Mr. Lincoln J. Carter, please

Dear Mr. Carter:

We have just run a series of tests on the Brand gauge comparing the air-tightness of a conventional pad with a tone booster ring of the same diameter.

In each case closure between the pad and the valve seat was made by means of clamps to make sure pressure would be absolutely uniform. The figures below show elapsed time in seconds for the water level in the Brand gauge to fall 8 points:

	Test 4	Test 5
2-5/8" Tone Booster Ring	40 seconds	48 seconds
2-5/8" Standard Pad	20 seconds	20 seconds
Difference between ring and pad	20 seconds	28 seconds

The average length of time for the water to run down 8 points for the tone booster ring is 44 seconds and for the standard pad, 20 seconds. Using the time for the standard pad as 100%, we arrive at a figure of 220% for the new pad, or a difference of 120%.

Earlier tests show that when the pads were held by hand differences as high as 400% were indicated. We believe that 120% is sufficient for publicity purposes, however, and believe that the word "indicates" should be used rather than "proved." This is because of the fact that our equipment does not permit of running a conclusive test on an entire instrument. Naturally, a test of one pad should be sufficient, but we would not want to be responsible for any claims we might not be able to back up later.

In line with the above points I am enclosing a slightly revised version of the publicity release which you may wish to use.

Prints of the photos taken in our shop were sent to you last night, and as soon as you know how many of each you will want we will order them for you.

Cordially yours,

JFFeddersen:e
cc: All corresp.
Release enc.

Advertising Manager