

## Notes on the 30W

A few people have gained the impression that the 30W transmitter was discontinued with the announcement of the 32A and 32B transmitters. This is most decidedly not the case. There are more 30W transmitters in operation than any other COLLINS type and sales of the 30W are continuing to keep pace with the sales of the 32A and the 32B. The 30W has slightly greater output than the 32A and it is ideal for the amateur who is primarily interested in C. W. work or who plans to convert his 30W to a 150A or 150B at a later date.

### Improvements on the 32A and 32B

Since the publication of the March SIGNAL, several modifications and improvements have been accomplished in the 32A and the 32B transmitters. First of all, both of these popular models can now be operated with full output on 14 mc. This is accomplished exactly as it is done in the 30W by using a 7 mc. crystal, doubling the frequency in the buffer stage and operating the final as a straight amplifier. Slight circuit modifications permit efficient operation of the 46's on this high frequency.

Of equal importance is the new self-contained high gain speech amplifier which permits the operation of the 32B direct from a double button or condenser microphone. This eliminates all external speech equipment except the microphone itself and type 1A input unit which embodies a gain control and an input transformer. A type 57 tube is used in the transmitter to provide adequate gain. A great deal of very careful work has been done in the development of the audio system in the 32B so that the new transmitters have a response guaranteed flat within plus or minus  $1\frac{1}{2}$  DB between 70 and 10,000 cycles and a maximum amplitude distortion of 5%. This places the fidelity of the 32B in the broadcast station class.

## RE-BROADCASTS

We are very glad to be able to reproduce in this issue of the SIGNAL photographs of three prominent amateur stations using COLLINS equipment.

W4ABS is the familiar call of the Infantry School, Ft. Benning, Georgia. The station is very active in traffic and DX work, chiefly on the 7 mc. band. The COLLINS 200A transmitter was installed May, 1932, and at first difficulty was experienced when a conventional Zeppelin antenna was used. The transmitter settled down to its routine job of handling a kilowatt input as soon as a two-wire matched impedance antenna system was installed. This latter type of antenna seems to prove the most satisfactory system for use with push-pull amplifiers.

The photograph from YV2AM is of particular interest. Your columnist has not had an opportunity to operate his own station within recent months but, during a visit to W2TP, Leonia, New Jersey, this spring, he had the good fortune to connect with YV2AM for a short chat on 14 mc. phone. Mr. Vegas speaks perfect English but with a noticeable accent. Since that time, YV2AM has kept a very consistent signal on the 14 and 7 mc. bands. The strength of his phone signals seems to indicate that very few of the foreign stations are using phone or else their phone transmitters have relatively low power output. It certainly will make things very interesting on 14 mc. when a larger number of foreign stations install efficient phone transmitters. The American amateur is, as a rule, a very poor linguist and he usually relies on the chap at the over-seas end of the circuit to speak his language. If enough foreign phone stations get on the air, it may induce some of us to brush up on our *español*.

Mr. Edward L. Thompson, W3CQS, Salisbury, Maryland, is another very prominent user of COLLINS equipment. In December, 1932, he purchased a 30W transmitter, mounted in a 34" relay rack and he has since added a 9C modulator to permit phone operation. Mr. Thompson's many Eastern amateur friends know him as the publisher of Ham News, (previously Ham-Skeds) and as the energetic gentleman who looks after the forwarding of all of the QSL cards in his section. The 30W has been in constant use since its installation and seems to be giving very good results. Recently W3CQS has been reported in England on 3.5 mc. Among Mr. Thompson's many duties are



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