

Riverhead N.Y.  
Tel. Riverhead 2290

#2 Xtal set to zero at 3:50 am.

3/ /91

Set Xtal to KOA at 1:35AM

TRANSMITTER DIAL SETTINGS

	700A #284	700C #277			
Date- (Year)	: 810	: 830	:	:	:
Dial Position.	: Dial	: Dial	: Dial	: Dial	: Dial
	: Rdg.	: Rdg.	: Rdg.	: Rdg.	: Rdg.
H.F. Amp. Tuning.	: 74 ✓	: 67	:	:	:
R.F. Amp. Input.	: 61 ✓	: 83	:	:	:
Mod. Amp. Tuning.	: 28 ✓	: 26	:	:	:
Mod. Amp. Bal.	71 : (39)	: 27	:	:	:
Crystal (1 or 2)	: 1	: 2	:	:	:
	:	:	:	:	:
	:	:	:	:	:
1st. P.A. Tuning.	: 55 ✓	: 29	:	:	:
1st. P.A. Bal.	: 55 ✓	: 42?	:	:	:
R.F.B. Dial (Upper)	:	:	:	:	:
R.F.B. Dial (Lower)	:	cont down to proper current.			
R.F.B. Db In Use.	:	:	:	:	:
	:	:	:	:	:
	:	:	:	:	:
2nd. P.A. Tuning	: 20 ✓	: 8 1/2	:	:	:
2nd. P.A. Bal.	: 66 ✓	: 62 1/2	:	:	:
	:	:	:	:	:
	:	:	:	:	:
T.L. Prot. Cot. (In or Out):	:	:	:	:	:
	:	:	:	:	:
3rd. P.A. Tuning	: 62 ✓	: 57	:	:	:
3rd. P.A. Bal.	57 : (48)	: 51	:	:	:
Filter #1.	: 52	: 55 } 1st Tuning	:	:	:
Filter #2.	: 53	: 50 }	:	:	:
Ant. Tuning Indicator.	: 101°	: 94°	:	:	:
A.P.C. kicks off at	: 5 Mils	: 7 Mils: 69° T.D.	:	:	:
	:	: OR	:	:	:
	:	:	:	:	:
Art. Ant. Tuning (L)	:	:	:	:	:
Art. Ant. Tuning (R)	:	:	:	:	:

Remarks

24.10 new meter antenna current } 830KC  
 26.00 old " " " " }  
 22.20 new " " " " } 810KC  
 24.30 old " " " " }

COPY  
Columbia Broadcasting System, Inc.

To Mr. McCartney (WCCO)

OFFICE COMMUNICATION

From Mr. Hutcheson

Station \_\_\_\_\_

SUBJECT

January 24, 1941.

The measurements on WCCO's tower above the coupling equipment were as follows:

$$Z(810 \text{ kc}) = 100.1 - j 241$$

$$Z(830 \text{ kc}) = 83.7 - j 212$$

The tower being 212 ohms capacitance reactance indicates that in tuning to 830 kc you will only have to remove a slight amount of inductance from the antenna coil - the flipper may do it. You certainly won't need a series condenser. You probably were referring to the measurements made at the present ammeter and not the ones above.

You should send in one of your 700-A crystal oscillators immediately to Western Electric if you expect to get it back by March 29, as they require 8 to 10 weeks to make the change and will not promise any by March 29 if received at the labs after February 1. You need not wait for Form 305 to go through before sending one unit back.

*3/25/41 new antenna meter read 22.5 A when old read 24.5*

COPY

Columbia Broadcasting System, Inc.

To Mr. McCartney cc: Mr. Lodge

OFFICE COMMUNICATION

From Mr. Hutcheson

Station \_\_\_\_\_

SUBJECT

December 2, 1940.

*Information on meter sent 2/22/41 copy to Mr. McCartney.*  
After you get your new antenna ammeter which is to be installed in the antenna bus above the coupling equipment, will you please let this office know the manufacturer's name, type number, rated accuracy, and full scale reading of the new meter. This information is needed as a part of the application for direct measurement of power for WCCO's new frequency. This application is FCC Form #306 which we are filling out here.

Also, after you get the new ammeter installed, we would like to know if it reads 24.4 amperes on 830 kc. We want to make this check before filing the application in order to be sure the resistance is still unchanged. Of course you should not test on 830 kc until you get permission from the FCC to do so.

Best regards.

*Weston Model 400 # 6761 0 to 40 amperes  
R.F. self contained thermo-couple. 2% or better*

FAST

RECEIVED  
BY  
PRIVATE  
WIRE



# RCA



DIRECT

ROUTE  
REPLY  
*Via RCA*

## RADIOGRAM

R.C.A. COMMUNICATIONS, INC.  
A RADIO CORPORATION OF AMERICA SERVICE

TO ALL THE WORLD — BETWEEN IMPORTANT U. S. CITIES — TO SHIPS AT SEA

*A. J. Chamberlain*

EC 18 XT W174 WASHINGTON DC 15 1 EX GOVT 31 710PM

COLUMBIA BROADCASTING SYSTEM INC RADIO STN WCCO

485 MADISON AVE NEWYORK

YOUR FREQUENCY UNDER HAVANA LISTINGS 830 EFFECTIVE MARCH 29.

COMMISSION RELEASE WILL BE MAILED

T J SLOWIE SECY FCC

CFM 485 830 29

902PM..

...  
R18CBS

RECEIVED  
FEDERAL BUREAU OF INVESTIGATION  
U.S. DEPARTMENT OF JUSTICE  
JAN 31 PM 9:05

COPY  
Columbia Broadcasting System, Inc.

To Mr. McCartney cc: Messrs. Chamberlain, Falknor

OFFICE COMMUNICATION

From Mr. Lodge

November 14, 1940

Station \_\_\_\_\_

SUBJECT

You probably have seen FCC Release #44558 regarding a change in the required date for stations to begin using direct rating of power. The new date is June 1, 1941. However, since WCCO is already on direct rating, it will be desirable for us to anticipate this date and to submit the resistance measurements at your new frequency in the next month or two. We have this data in New York and will file the application (FCC Form No. 306) for WCCO from here.

It will, however, be necessary for you to relocate the WCCO antenna ammeter in the antenna lead above the coupling equipment before operation at direct power rating on 830 kc can begin. Our records show that the present antenna ammeter has a scale 0-40 amperes, and at its present location on 810 kc reads 24.4 amperes ( $R_a = 83.3$  ohms). The meter in the antenna bus above the coupling equipment at 830 kc will carry substantially the same current, 24.44 amperes ( $R_a = 83.7$  ohms). The present remote antenna ammeter, in its present location, can continue in use after being recalibrated to follow the regular antenna ammeter in the antenna bus.

Instead of moving the present regular meter to the new location (the present method of operation must continue until March 29, 1941), you should order a new 40-ampere meter with self-contained thermocouple to be located at the "high" side of the coupling equipment. This entire meter assembly should be "floating" and well insulated from ground. It may be wise to mount the meter itself on the antenna bus. The meter should also be protected by the use of a make-before-break switch actuated by a long insulated rod running outside the cage to switch the meter out of the antenna circuit completely and to short it when not in use. The present antenna meter can be returned to Weston after March 29, to have the thermocouple mounted internally and to serve as a spare for those rare occasions when Minnesota lightning may get at the regular meter.

NOTE