

TO: I. K. Munson 10-4

October 21, 1957

FROM: V. J. Mancino 10-4

MANCINO

SUBJECT: Trip Report to IRE Committee, 27.4

A trip was made to a meeting of IRE Committee 27.4 Radio Interference from Radio Transmitters. Those present were:

H. R. Butler, Federal Tel Labs  
A. B. Glenn, RCA  
W. F. Goetter, General Electric  
V. J. Mancino, RCA  
Propper, General Electric

Dr. A. B. Glenn of RCA, who is chairman of the IRE Committee 27.0 on Radio Interference, pointed out the history of the Radio Interference Committee and some of the problems encountered by the receiver sub committee.

This first meeting was mainly to decide what to do and how to do it. It was agreed that:

- (1) The scope of the committee will include AM, FM, and TV transmitters.
- (2) The purpose of this committee will be to make an industry wide standard on how to measure radio interference from transmitters.
- (3) The goal of the committee will be to have an acceptable specification written within two years.

Basically the interference emanating from a transmitter is measured as follows:

- (1) By measuring the RF voltage conducted in the power lines.
- (2) By sampling the amount of spurious energy conducted at the antenna terminals.
- (3) By measuring the radiated field emanating from the cabinet.

Making cabinet radiation measurements has always presented a problem in that the measurements are very cumbersome to make and lack correlation. At the present time an acceptable method for doing this does not exist.

The immediate objective of this sub-committee will be to make a survey of the available methods of coping with the above mentioned problems. This will be done individually by each committee member by November 15, 1957, at which time these methods will be reviewed by the committee and a tentative specification will be prepared.

It is the opinion of the undersigned that any results achieved by this sub-committee will have a direct influence on RCA's activity in the Broadcast field; therefore, it is imperative that RCA be represented by someone at all meetings of this sub-committee.

*V. J. Mancino*

V. J. Mancino  
Central Engineering, 10-4

October 21, 1957

TO: I. K. Munson 10-4  
FROM: V. J. Mancino 10-4  
SUBJECT: Trip Report to IRE Committee, 27.4

Distribution:

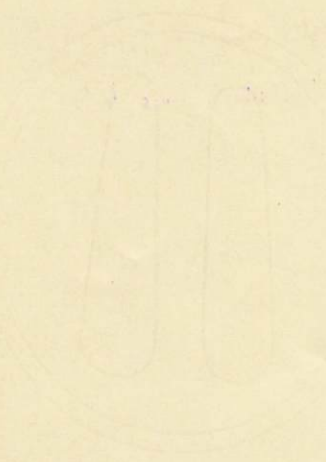
F. C. Collings, 10-5  
G. T. Ross, 10-5  
J. Kimmel, 10-4  
A. B. Glenn, 13-3  
J. E. Young, 530-1  
F. E. Talmage, 530-1  
File: Committee 27.4

jbh

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1958

**GENERAL  ELECTRIC  
COMPANY**

**INDUSTRIAL ELECTRONICS DIVISION  
TECHNICAL PRODUCTS DEPARTMENT**

ELECTRONICS PARK, SYRACUSE, NEW YORK . . . . . TELEPHONE GRANITE 6-4411

*Ext 2955  
Room 2619*

September 17, 1958

Mr. Vincent J. Mancino  
Radio Interference Group on Standards  
Engineering Department  
Radio Corporation of America  
Camden 2, New Jersey

Dear Mr. Mancino:

Since the last meeting of Sub-Committee 27.4, our Proposed Standards have been sent to members of Committee 15 (and Sub-Committee) and to Sub-Committee 27.7 with a request for comments.

Comments were received from Mr. J. B. Singel, Chairman of Sub-Committee 15.5, Mr. J. F. Chappell, Sub-Committee 27.7, and Mr. Ken Backman, also of Sub-Committee 27.7. I have enclosed copies of each.

I would like to schedule our next meeting for Friday, October 4th at I.R.E. headquarters. I believe we should devote this meeting to consideration of these comments. Will you please be prepared to review our Standards with this in mind?

Very truly yours,

*W. F. Goetter*  
W. F. Goetter, Chairman  
Sub-Committee 27.4

WFG/cjk

Enc.

**GENERAL ELECTRIC**  
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INDUSTRIAL ELECTRONICS DIVISION  
TECHNICAL PRODUCTS DEPARTMENT

ELECTRONICS PARK, SYRACUSE, NEW YORK . . . . . TELEPHONE 76-4411

October 31, 1957

MANCINO  
IRE 27.4

Mr. Vincent J. Mancino  
Radio Interference Group on Standards  
Engineering Department  
Radio Corporation of America  
Camden 2, New Jersey

Dear Mr. Mancino:

In accordance with Dr. Glenn's suggestion at our recent meeting of Sub-Committee 27.4, enclosed you will find copies of the following:

1. RETMA Measurements and Recommendations Regarding Occupied Bandwidth and Spurious Emissions of Television, Standard Broadcast and FM Broadcast Transmitters. Dated November 21, 1956.
2. FCC Docket No. 10798, Comments of the RETMA in regards to application of Section 2.524-d-2 of the Commissions Rules to Type Acceptance of TV and FM Broadcast Transmitters. Dated May 20, 1957.
3. Method used by RETMA Sub-Committee TR-4.1 for making Spurious and Harmonic measurements of Television Transmitters.
4. Report on the work of RETMA Sub-Committee TR-4.1 on TV Program Transmitters and of Task Force TF-2 on Transmitter Spurious Radiation.
5. MIL-I-16910 (Ships). Military Specification Interference Measurement, Radio, Methods and Limits; 14 Kilocycles to 1000 Megacycles. Dated January 14, 1952.
6. MIL-I-006181C (USAF). Military Specification Interference Control Requirements, Aeronautical Equipment. Dated June 6, 1957.
7. Exhibit RADC-2313A. Radio Interference Limits and methods of Measurement (14 KC to 1000 mc), Ground Electrical and Electronic Equipment. Dated June 4, 1954.

I trust this material will be of some use in our work. You will probably have other more suitable information for use at our next meeting on November 15. I hope you will be able to attend.

Respectfully,

*W. F. Goetter*  
W. F. Goetter, Chairman  
Sub-Committee 27.4

WFG/cjk

**GENERAL ELECTRIC**  
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1958

**INDUSTRIAL ELECTRONICS DIVISION**  
TECHNICAL PRODUCTS DEPARTMENT

ELECTRONICS PARK, SYRACUSE, NEW YORK . . . . . TELEPHONE 76-4411

MANCINO  
IRE 27.4  
Grant 6-4411  
EXT. 2955

February 24, 1958

Mr. Vincent J. Mancino  
Radio Interference Group on Standards  
Engineering Department  
Radio Corporation of America  
Camden 2, New Jersey

Dear Mr. Mancino:

Enclosed please find a revised draft of part one of our proposed Standard on Measuring Interference Output as discussed at our last meeting. I have tried to make these revisions in accordance with my understanding of the agreements of that meeting and as reported in the minutes.

I hope you will be able to attend the next meeting on February 28th at which time we should review this revised Standard and perhaps start to draft part two covering Cabinet Radiation.

Very truly yours,

*W. F. Goetter*  
W. F. Goetter, Chairman  
Subcommittee 27.4

WFG/cjk  
Enc.

1958

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**INDUSTRIAL ELECTRONICS DIVISION  
TECHNICAL PRODUCTS DEPARTMENT**

ELECTRONICS PARK, SYRACUSE, NEW YORK . . . . . TELEPHONE GRANITE 6-4411

MANCINO  
IRF 27.4

May 14, 1958

Mr. Vincent J. Mancino  
Radio Interference Group on Standards  
Engineering Department  
Radio Corporation of America  
Camden 2, New Jersey

Dear Mr. Mancino:

Enclosed please find a revised copy of Part One of our proposed Standard on Measuring Interference Output as revised during our April 11, 1958 meeting.

Will you please review this material and let me know as soon as possible of any further changes which you feel should be made.

A meeting of Committee 27 has been called for May 22nd and I would like to report at that time that our work in Part One is complete and we are ready to start on Part Two. I would like to delay our next meeting until after this meeting of Committee 27.

Very truly yours,

*W. F. Goetter*  
W. F. Goetter, Chairman  
Sub-Committee 27.4

WFG/cjk