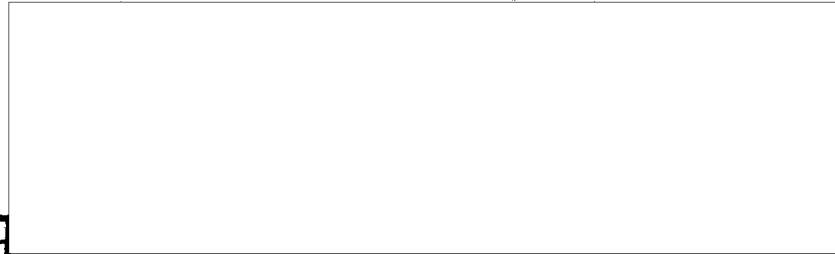


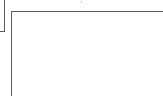
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(IN TRIPLICATE)

14 January 1959



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DOC <u>03</u>	REV DATE <u>29</u>	BY <u>018373</u>
ORIG COMP <u>35</u>	OPI <u>36</u>	TYPE <u>01</u>
ORIG CLASS <u>S</u>	PAGES <u>2</u>	REV CLASS <u>C</u>
JUST <u>22</u>	NEXT REV <u>2010</u>	AUTH: HR 10-3

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Attention:



Subject: CS-8 Broadband Antenna (Modified),
 Frequency Range 30-1000 mc.,
 Submission of Information Concerning
 Quotation for

Reference: (a) Quotation letter dated 22 December 1958

Gentlemen:

Pursuant to a review of Reference (a), the bidder has discovered certain information necessary for review of the referenced quotation was inadvertently omitted. Therefore the bidder submits the following information:

1. The gain for the subject antenna will be 5 db over dipole for the frequency range of 30-60 mc and 6 db over dipole for the frequency range of 60-1000 mc. The above statement should be considered as a part of the specifications for the subject equipment.
2. A brief description of the development program contemplated by the referenced quotation is as follows:

The development program will consist of a mechanical stress analysis of the antenna structure, the preparation of new drawings and bill of materials, complete electrical tests on the antenna and the preparation of a report and an instruction book. Special problems which will have to be solved are the design of a new tapered line balun, the determination of a suitable location for the supporting mast, the design of apparatus to hold the antenna so that it may be easily rotated for polarization change and, most important, the design of a special section for the front end of the antenna in order to achieve the 30:1 bandwidth. For structural reasons, this front end should be rugged so as to hold the halves of the antenna together, but for electrical reasons, the metal parts of this front end should be small so as to preserve the desired pattern characteristics. It is felt that the front end design is certainly feasible, but it will take a considerable amount of investigation. As with any new antenna design, it will take a considerable amount of time to complete all the detailed designs and drawings.

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In the event further information is desired concerning the above, do not hesitate to contact the writer.

Very truly yours,

[Redacted Signature]

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Contract Administrator
NKG:js

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