

ROUGH DRAFT

SR/rm/3-16-56

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*Suggested
Draft for
Ramo I did.*

*all memo
for call deck
from WDR
26 mar 56
same
subject*

TO: Dr. Ramo

**SUBJ: R-W Responsibility
in the ARS Program**

FROM: General B. A. Schriever

1. For some time the obligation undertaken by R-W on behalf of WDD has included certain tasks in connection with the USAF Satellite program. The purpose of this letter is to define further the specific future duties seen for The Ramo-Wooldridge Corporation in this area. The following guidance is regarded as sufficient to enable continued planning by your company to provide these services, and to make the estimates necessary for budgeting and contractual arrangements to cover such tasks.

2. In general, the ARS program covers a broad system development, including activities at a number of centers of ARDC and a number of contractors. A part of this program involves very close interaction with the ICBM program. Also, it is important that the ARS program be carried out with minimum interference to the ICBM program and maximum mutual support between the two programs. Accordingly, it will be necessary to organize for the management of that portion of the ARS program that interacts closely with the ICBM in a manner somewhat different from the detailed organization required for the rest of the total ARS program.

3. More specifically, the first phase of the ARS program from the vehicle standpoint will involve, as you already know, the design of an orbiting powered nose cone to be launched from a standard ICBM "understructure." This phase of the program will have a twofold objective: (a) as a first step in the total ARS vehicle program, it will provide initial orbiting experience, and (b) it will serve as a backup for the International Geophysical Year Satellite Program. In order to meet the scheduled dates and to insure a minimum of potential interference to the ICBM program, this portion of the program will be handled in precisely the same manner as applies to the ICBM program. That is, a separate contract or contracts will be issued to industry to provide the orbiting test vehicle, with The Ramo-Wooldridge Corporation furnishing technical direction over the contractors, including the supervision of the integration of this orbiting, powered nose cone with the Convair ICBM vehicle and the launchings at AFMTC. While the technical direction clause in the contract and the technical direction procedures being used by WDD/R-W will apply, the words "systems engineering responsibility" will obviously not apply because this phase of the total ARS program does not involve a complete systems operation. It will, however, be

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the responsibility of The Ramo-Wooldridge Corporation to assure that all aspects of the planning and execution of this phase of the ARS program is done with technical soundness. In short, all matters connected with this specific first phase of the ARS program will be handled by the normal procedures for the setting up of R&D plans and schedules, work statements, technical direction meetings, etc., that are used on the CBM and IRBM programs.

4. The total ARS program involves the application of the vehicle to a complete intelligence and reconnaissance system using satellites, with the corollary development of airborne and ground based equipment for sensing, communication, data handling, control, etc. WDD will establish a project office for the supervision of this total ARS program. In this connection, R-W's GMRD will be expected to act as a technical staff. This staff will not have systems responsibility, nor will it direct the technical activities of all the contractors of the program. However, the staff must be of such size and nature that it can provide to the WDD project office the following specific services;

- a. System analyses of the operation of the complete system to a sufficient extent to advise intelligently on compatibility of military requirements, objectives, and state of the technical art.
- b. Study and advice in the creation of an over-all R&D plan.
- c. Technical evaluation of proposals.
- d. Study and criticism of technical work statements in contracts.
- e. Study and criticism of technical reports.
- f. Aid in cost estimating for technical apparatus of the complete system.
- g. Operational research studies.

21 Mar 52

Col T

I am happy to
agree with the general.
I recommend this as
the best solution.

A. J. M.

WESTERN DEVELOPMENT DIVISION
HEADQUARTERS AIR RESEARCH AND DEVELOPMENT COMMAND
P. O. Box 263
Inglewood, California

DATE 19 Mar 1956

MEMORANDUM FOR:

Col Terhune:

This is essentially
what I have in mind re-
Row role in ARS.

Pls. look it over and
give me your comments or
concurrence. If latter prepare
letter for my sig. to Row.

B. A. Schriever
B. A. SCHRIEVER
Brigadier General, USAF
Commander

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THE RAMO-WOOLDRIDGE CORPORATION

LOS ANGELES 45, CALIFORNIA

INTEROFFICE CORRESPONDENCE

TO: General B. A. Schriever

CC: Col. C. H. Terhune

DATE: March 16, 1956

L. G. Dunn

J. C. Fletcher

F. W. Hesse

R. F. Mettler

FROM: Simon Ramo

SUBJECT R-W Responsibility
in the ARS Program

I believe that it is necessary that R-W receive from you some additional definition on the above subject for several reasons. As an indication of what I believe to be needed, I have dictated the attached rough draft of a letter that I would appreciate your looking over. If this document or one something like it should be somewhere near your own thinking on this subject, then I think it would be very helpful for R-W to receive it at an early date.

S. R.

Simon Ramo

SR:rm

Attachment