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ADVANCED RESEARCH PROJECTS AGENCY  
Washington 25, D. C.

ARPA Order No. 38-59  
Amendment No. 3

April 16, 1959 Date

TO: Commander  
Air Research and Development Command  
Andrews Air Force Base  
Washington 25, D. C.

On the basis of an on-site detailed technical review of the MIRAS Phase I Development Plan, the \$20,200,000 FY 1959 Phase I program relating to the four experimental flights is approved subject to the following changes:

1. The program objective shall be strongly reoriented to give a high priority to deriving from each flight a maximum of quantitative, scientific, and engineering data to insure the accumulation of sufficient data to:
  - a. Predict the success or failure of an alarm system in an operational role;
  - b. Permit progressive improvement of the alarm system during the development program; and
  - c. Permit design of other infrared equipment for optimized operational early warning or tracking system.†
2. The contractor shall be directed to analyze quantitatively the gains in background rejection, possible through signal-data processing, for example for use of moving-target-indicator methods.

Details on the above changes will be forwarded under separate cover.

In addition to Phase I, FY 1959 funds in the amount of \$2,600,000 are authorized only for the urgent lead-time procurement required for boosters, vehicles and engines under Phase II.

Total FY 1959 funding in the amount of \$22,800,000 mentioned above is contingent upon ARPA's receipt of additional funds from the Secretary of Defense Emergency Fund. In the interim, the fund availability is hereby increased from \$3,000,000 to a new total of \$10,800,000 under appropriation and account symbol #97X0113.002 Salaries and Expenses, Advanced Research Projects Agency, Department of Defense."

/s/ Roy W. Johnson

Roy W. Johnson  
Director

Copy to: Secretary of the Air Force

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 ADVANCED RESEARCH PROJECTS AGENCY  
 Washington 25, D. C.

ARPA Order No. 38-59  
 Amendment No. 2

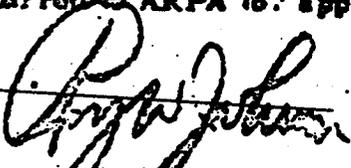
April 1, 1959 Date

TO: **Commander**  
 Air Research and Development Command  
 Andrews Air Force Base  
 Washington 25, D. C.

1. Paragraph 6, ARPA Order No. 38-59, dated November 5, 1953, is superseded by the following Attachment No. 1 to the basic Order is superseded by Attachment No. 1 to this Amendment.

The Director, Advanced Research Projects Agency, will be kept informed of the status of work assigned under this Order by a Monthly Progress Report, a Quarterly Progress Report and a Semi-annual Technical Summary Report. To be prepared and submitted in accordance with procedures outlined in Attachment No. 1. These reports represent ARPA's presently foreseeable requirements for reporting under ARPA Order No. 38-59.

2. Distribution of AFPMRD reports required by ARPA on work performed under ARPA Order No. 38-59 to agencies within USAF will be decided by AFPMRD in consonance with established USAF procedures. Requests for copies of these reports by agencies outside USAF will be referred to ARPA for approval.

  
 Roy W. Johnson  
 Director

1 Incl:  
 Attachment No. 1

Copy to: Secretary of the Air Force  
 Cdr., ARDC  
 Cdr., AFPMRD

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ADVANCED RESEARCH PROJECTS AGENCY  
Washington 25, D. C.

ARPA Order No. 48-59  
Amendment No. 1

April 1, 1950 Date

TO: The Secretary of the Air Force  
Washington, D. C.

1. Paragraph 5. ARPA Order No. 48-59, dated December 16, 1948, is superseded by the following. Attachment No. 1 to the basic Order is superseded by Attachment No. 1 to this Amendment.

The Director, Advanced Research Projects Agency, will be kept informed of the status of work assigned under this Order by a Monthly Progress Report, a Quarterly Progress Report, and a Semiannual Technical Summary Report, to be prepared and submitted in accordance with procedures outlined in Attachment No. 1. These reports represent ARPA's presently foreseeable requirements for reporting under ARPA Order No. 48-59.

2. Distribution of AFBMD reports required by ARPA on work performed under ARPA Order No. 48-59 to agencies within USAF will be decided by AFBMD in consonance with established USAF procedures. Requests for copies of these reports by agencies outside USAF will be referred to ARPA for approval.

Roy W. Johnson  
Director

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Attachment No. 1

Copy to: Commander, ARDC  
Commander, AFBMD

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Attachment No 1

ARPA Order No 48-59  
Amendment No. 3

## PREPARATION OF REPORTS

### I. Monthly Progress Report

a. Narrative Section. A letter report will be submitted by AFBMD giving a narrative account of work performed under ARPA Order No. 48-59. The letter report will cover work performed each month with the exception of the last month (March, June, September and December) of each calendar quarter. The quarterly progress report prescribed below will be submitted in lieu of the letter report for the last month of each calendar quarter. The initial letter report under this directive will be for the month of April 1959. Letter reports will be submitted in quadruplicate to the Director, Advanced Research Projects Agency, and are due within 10 days following the month reported.

The report will be in letter form, preferably not exceeding three pages, and will present a brief narrative summary of progress during the reporting period. Each report should make specific reference to the following topics: (1) technical status, (2) problems encountered, (3) work schedules, and (4) action required by ARPA. Photographs and illustrative material will be submitted as appropriate. The ARPA Order number, name of contractor, date of contract, contract number, amount of contract, and title of the project should be stated in the heading of each report.

b. Milestone Section. Instructions for preparation of a milestone progress report, which requires use of a standard format in reporting actual progress against planned progress in accomplishing major milestone, will be issued at a later date.

### II. Quarterly Progress Report

The purpose of the quarterly progress report is to provide the President and the Secretary of Defense and their staff with periodic summary information by which they may be kept informed of overall progress and results in certain of the satellite projects.

Frequency and Due Date. The quarterly progress report will be prepared for submission to the President each calendar quarter and will show a summary of progress and significant events during the

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Attachment No. 1

ARPA Order No. 42-59  
Amendment No. 3

quarter. The report should reach ARPA no later than the 11th of the month following the close of the quarter reported. When the 11th falls on a non-workday, the report will be due the following workday. The initial report under this directive will be for the quarter ending March 31, 1959.

Content. The quarterly progress report will cover the progress, special achievements, problems encountered, schedules and overall status of the program. It is essential that the content be carefully organized and that the material be presented briefly, clearly and concisely.

Format.

**PART A. Brief of Progress During the Quarter.** The brief should not exceed one-half page in length and should present the outstanding highlights of progress and status of the program.

**PART B Topical Summary.** The topical summary consists of a series of summary headings, each of which is followed by a summary paragraph or paragraphs. The summary paragraphs are not limited in number but generally should not exceed 15 lines in length. Each paragraph should be abstracted in a marginal heading appearing at the left margin opposite the first line of the paragraph. All elaborative detail should be relegated to Part C and reference noted thereto, as appropriate. Suggested summary headings for the DISCOVERER Project are:

**DISCOVERER PROJECT**

**DISCOVERER FLIGHTS**

Flight I  
Flight II, etc.

**FACILITIES AND SITES**

Launch  
Tracking

**GENERAL**

Satellite Airframe Subsystem  
Satellite Propulsion Subsystem

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Attachment No. 1

ARPA Order No. 46-59  
Amendment No. 3

GENERAL (continued)

Auxiliary Power Subsystem  
Satellite Guidance and Control Sub-  
system  
Data Handling Subsystem  
Biomedical Recovery Program

These headings may be revised or added to by the preparing agency from time to time, as appropriate.

**PART C. Descriptive Detail** All detailed description and back-up information considered necessary to the completeness of the report will be confined to Part C. Examples are description and layout of tracking stations, map sketches of location of facilities, and details of design and testing of equipment. A glossary sheet listing standard equipment and systems terminology and specifications should be included.

Photographs and Sketches. Photographs and sketches selected to show progress of the work and depict development of equipment should accompany each report. To facilitate printing, photographs and sketches will be in black-and-white glossy finish on 8X10-1/2-inch paper. Each photograph should contain some commonly known object to indicate scale and be clearly captioned.

General. The quarterly progress report will be assembled with those of other satellite projects into a single Department of Defense Military Satellite Program Progress Report and transmitted to the President. It is desired that the format of the report to the President be carefully followed in preparing the report for your project to enable ARPA to print and transmit the consolidated report to the White House with minimum rewriting and editing delay.

III. Semiannual Technical Summary Report

A technical summary report will be prepared semiannually for periods ending June 30 and December 31 of each year. The report will present a concise and factual discussion of technical findings and accomplishments during the period. Six copies of the report will be submitted to the Director, Advanced Research Projects Agency, and are due within 30 days following the close of the report

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ADVANCED RESEARCH PROJECTS AGENCY  
Washington 25, D. C.

ARPA Order No. 48-59  
Amendment No. 2

March 24, 1959      Date

TO:    The Secretary of the Air Force  
        Washington 25, D. C.

The Development and Funding Plan, dated January 30, 1959,  
for the DISCOVERER program, is hereby approved. This approval  
pertains to the 13-vehicle program.

Further program guidance will be in accordance with Para-  
graph 4 of the basic Order.



Roy W. Johnson  
Director

Copy to: Commander, ARDC

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Attachment No. 1

ARPA Order No. 48 59  
Amendment No. 3

period. Upon completion of the project, a final report will be submitted summarizing the entire project. The final completion report will be submitted in lieu of the regular semiannual report to reach the Director, Advanced Research Projects Agency, within 60 days following project completion. The ARPA Order number, name of contractor, and title of the project should be stated in the heading of each report.

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Attachment No 1

ARPA Order No 38-59  
Amendment No. 2

## PREPARATION OF REPORTS

### I. Monthly Progress Report

a. Narrative Section. A letter report will be submitted by AFMMD giving a narrative account of work performed under ARPA Order No. 38-59. The letter report will cover work performed each month with the exception of the last month (March, June, September and December) of each calendar quarter. The quarterly progress report proscribed below will be submitted in lieu of the letter report for the last month of each calendar quarter. The initial letter report under this directive will be for the month of April 1959. Letter reports will be submitted in quadruplicate to the Director, Advanced Research Projects Agency, and are due within 10 days following the month reported.

The report will be in letter form, preferably not exceeding three pages, and will present a brief narrative summary of progress during the reporting period. Each report should make specific reference to the following topics: (1) technical status, (2) problems encountered, (3) work schedules, and (4) action required by ARPA. Photographs and illustrative material will be submitted as appropriate. The ARPA Order number, name of contractor, date of contract, contract number, amount of contract, and title of the project should be stated in the heading of each report.

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ARPA Order No. 38 59  
Attachment No. 2

The report should reach ARPA no later than the 11th of the month following the close of the quarter reported. When the 11th falls on a non-workday, the report will be due the following workday. The initial report under this directive will be for the quarter ending March 31, 1959.

Content: The quarterly progress report will cover the progress, special achievements, problems encountered, schedules and overall status of the program. It is essential that the content be carefully organized and that the material is presented briefly, clearly and concisely.

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MIDAS PROJECT

MIDAS FLIGHTS

Flight I.  
Flight II, etc.

FACILITIES AND SITES

Launch  
Tracking

GENERAL

Infrared Subsystem  
(Certain basic subsystem hardware for the MIDAS Project presently being

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Attachment No. 1

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Amendment No. 2

## GENERAL (continued)

developed under the DISCOVERER Project will be reported under the DISCOVERER Project and reference made thereto.)

These headings may be revised or added to by the preparing agency from time to time, as appropriate.

**PART C. Descriptive Detail** All detailed description and backup information considered necessary to the completeness of the report will be confined to Part C. Examples are description and layout of tracking stations, map sketches of location of facilities, and details of design and testing of equipment. A glossary sheet listing standard equipment and systems terminology and specifications should be included.

**Photographs and Sketches.** Photographs and sketches collected to show progress of the work and depict development of equipment should accompany each report. To facilitate printing, photographs and sketches will be in black-and-white glossy finish on 8X10-1/2-inch paper. Each photograph should contain some commonly known object to indicate scale and be clearly captioned

**General** The quarterly progress report will be assembled with those of other satellite projects into a single Department of Defense Military Satellite Program Progress Report and transmitted to the President. It is desired that the format of the report to the President be carefully followed in preparing the report for your project to enable ARPA to print and transmit the consolidated report to the White House with minimum rewriting and editing delay.

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