

U. S. ARMY SPACE AND MISSILE DEFENSE COMMAND
DARPA OFFICE
HUNTSVILLE, AL 35807-3801

TECHNICAL REQUIREMENT NO. N069

3 April 2002

Active Hyperspectral Sensor Research

A Research Task for
DARPA Office

PREPARED BY:

[REDACTED]

Chief, SMDC DARPA Office

APPROVED BY

[REDACTED]

Chief, SMDC DARPA Office

Technical Requirement No. N069

SECTION 1 SCOPE

The objective of this effort will be to explore the technologies and methods available to detect and identify the stable and unstable isotopes of isolated ions, atom, and molecules present in the atmosphere at concentrations as low as 10 atoms/cm³ at ranges up to 75 kilometers from the point of observation.

SECTION 2 APPLICABLE DOCUMENTS

None

SECTION 3 REQUIREMENTS

3.1 The objectives, identified above, are clearly defined on pages 4-5 of the contractor's proposal. The task described on page 13 shall be included into the contract as the Statement of Work for the Base Effort. The tasks, identified and defined on pages 13-16 of the contractor's proposal, shall be included into the contract as the Statement(s) of Work for Options 1-4.

3.2 The contractor shall identify, control, and document the hazards associated with this effort and the control methods necessary to eliminate or control the hazards in all test plans and operations. Significant issues shall be addressed in status meetings and included in an Urgent Test Technical Report.

SECTION 4 (U) DOCUMENTATION REQUIREMENTS

4.1 Documentation required by the contract consists of reports and data as defined and scheduled in the Contract Data Requirements List (CDRL) (DD Form 1423).

4.2 Except as stated below, each technical report should be prepared utilizing the American National Standards Institute reference ANSI Z39.18 as a guide. Copies of this reference are available from ANSI, 11 West 42 St., NY, N.Y. 10036, [REDACTED]. [REDACTED] The Defense Technical Information Center requires that all technical reports generated under Defense Department contracts contain a Report Documentation Page, SF 298, at the beginning of each report. Report Documentation Page abstracts should be prepared using the guidelines in Attachment I.

4.3 The cover page of each report prepared under this contract shall have the following citation.

(Report Title)

(Date of Publication)

Issued by U.S. Army Space and Missile Defense Command

Contract No.

4.4 The following information shall be included on the cover or title page, as appropriate, of every report generated as result of this effort:

Name of Contractor: Principal Investigator, Project

Scientist, or Engineer

Business Address:

Phone Number:

Effective Date of Contract: Short Title of Work:

Contract Expiration Date:

Reporting Period:

DISCLAIMER

"The views and conclusions contained in this document are those of the authors and should not be interpreted as representing the official policies, either express or implied, of the U.S. Army Space and Missile Defense Command or the U.S. Government."

4.5 Distribution of documents containing technical information shall be controlled by the application of one of the following distribution statements which is to be placed on the front cover.

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For unclassified documents, destroy by any method that precludes reconstruction of the document.

4.6 Three copies of proposed public releases of technical information, including technical reports, shall be submitted to:

Deputy Commanding General, U.S. Army Space and Missile Defense Command, [REDACTED] P.O. Box 1500, Huntsville, AL 35807-3801." A minimum of 45 days should be allowed for approval prior to planned publication.

ATTACHMENT I

Abstract Requirements

1. Contain 200 or less words.
2. Prepare an informative abstract that succinctly informs the reader of the salient features of the subject studies. The organization of the report should be reflected in the abstract and should contain, as a minimum, the following elements:
 - a. The objectives and/or purpose of the investigation in enough detail to tell the reader whether the research concerns him.
 - b. The methods employed and the kinds of treatment given, mentioning materials, conditions, restrictions and limits, should be given without going into detail.
 - c. Results obtained and/or conclusions reached should be the major part of the abstract. New findings should be clearly stated, including important numerical values.
3. The terminology in the abstract should be the same as that in the report. Technical terminology of the abstract will become the subject terms for storage and retrieval of information about the report.
4. Unconventional or rarely used symbols and characters should not be used because they cannot be introduced into certain automatic data processing systems.
5. Superscripts, subscripts, power, exponents, Greek letters, and other symbols that cannot be represented by ASCII codes shall be verbalized.
6. No abbreviations and acronyms shall be used unless of universal knowledge.
7. No equations, footnotes, preliminaries.
8. No descriptive cataloging of data.

9. Security Classification - abstracts should be unclassified to the maximum extent possible while providing the necessary information. Classified abstracts should be closely marked.

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C. CONTRACT LINE ITEM NO. 0006	B. EXHIBIT A	C. CATEGORY: TDP TM OTHER
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H. SYSTEM/ITEM ACTIVE HYPERSPECTRAL SENSOR RSCH	E. CONTRACT/PR NO. DASG60-02-C-0048	F. CONTRACTOR UNIVERSITY OF HAWAII
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1. DATA ITEM NO. C001	2. TITLE OF DATA ITEM STATUS REPORT	3. SUBTITLE QUARTERLY R&D STATUS REPORT, OPTION 2
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4. AUTHORITY DI-MGMT-80368	5. CONTRACT REFERENCE Documentation Requirements	6. REQUIRING OFFICE <div style="background-color: black; width: 100px; height: 15px;"></div>
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 b. Description of progress during the reporting period, supported by reason for change in approach reported previously.
 c. Planned activities for next reporting period.
 d. Description of any major items of experimental or special equipment purchased or constructed during the reporting period.
 e. Notification of any changes in key personnel associated with the contract during the reporting period.
 f. Summary of all problems or areas of concern
 g. Related accomplishments since last report

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1. DI-MGMT-80368 (Sequence B001)	Status Report	8 Jun 87 Cat 1
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Par. 10.2 Content. Refer to Documentation Requirements for instructions on content. Delete Block 10, par 10.2.2.3

2. DI-FNCL-80331 (Sequence B002)	Funds and Man-Hour Expenditure Report	27 Feb 87 Cat 1
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Delete requirements under par 10.2 of this DID that require detailed breakdown of tasks and work units. Summary information in contractor generated format is adequate to fulfill this requirement.

3. DI-MISC-80048 (Sequence B003 thru B004)	Scientific and Technical Reports Summary	11 Sep 85 Cat 1
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2. DI-FNCL-80331 (Sequence C002)	Funds and Man-Hour Expenditure Report	27 Feb 87 Cat 1
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Delete requirements under par 10.2 of this DID that require detailed breakdown of tasks and work units. Summary information in contractor generated format is adequate to fulfill this requirement.

3. DI-MISC-80048 (Sequence C003 thru C004)	Scientific and Technical Reports Summary	11 Sep 85 Cat 1
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