SRI International

29 September 1983

Proposal for Research

SRI International No. ESU 83-144

TARGET SEARCH TECHNIQUES (U)

Part One--Technical Proposal

Prepared for:

Client Private

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WARNING NOTICE

CENTER LANE SPECIAL ACCESS PROGRAM.
RESTRICT DISSEMINATION TO THOSE WITH VERIFIED ACCESS.

CATEGORY 3

CLASSIFIED BY: CENTER LANE
Security Classification Guide dated
1 March 1983
Declassify on: OADR

Copy No. 3

This document consists of 7 pages.

941/CL-0006

WARNING NOTICE
Intelligence Sources
and Methods Involved

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I INTRODUCTION (U)

(S/CL-3/NOFORN) In response to correspondence from Army INSCOM dated 22 July 1983, and to discussions with INSCOM personnel on 7 and 8 September 1983, SRI International submits this proposal to initiate activity concerning Remote Viewing (RV) target search techniques.

(S/CL-1/NOFORN) To accomplish the proposed program, SRI will provide the facilities, materials, SRI staffing, and consultants to perform the tasking outlined in the INSCOM Statement of Work dated 22 July 1983. Details of the effort are specified in the following section.

II STATEMENT OF WORK (U)

1. (U) GENERAL

1.1 (S/CL-3/NOFORN) The objective of this effort is to investigate a particular aspect of psychoenergetic phenomena called Target Search, which is designed to determine the location of objects, individuals, and facilities, in a scale of room- to global-sized dimensions.

1.2 (U) MAJOR GOALS

a. (S/CL-3/NOFORN) Phase I: Determine the efficiency or best method of using the "Discrete Search Technique," and apply that technique to problems relevant to intelligence-collection tasks.

b. (S/CL-3/NOFORN) Phase II: Determine the efficiency or best method of using "Continuum Search (Dowsing) Techniques," and determine their applicability to intelligence-collection tasks.

c. (S/CL-3/NOFORN) Demonstrate the most efficient methods selected by applying them against targets chosen by CENTER LANE. This will include appropriate statistical analysis and a finalized target evaluation.

d. (S/CL-3/NOFORN) Provide a final overall evaluation of the above three areas with recommendations for training.

2. (U) SPECIFIC TASKS

2.1 (S/CL-3/NOFORN) Research the literature and published documentation to determine the best methods for performing Discrete Search Techniques.

2.2 (S/CL-3/NOFORN) Determine what an effective "zone" or "grid-squares" area is in a Discrete Search Technique.

2.3 (S/CL-3/NOFORN) Determine the optimized sizes of varying search areas.

2.4 (S/CL-3/NOFORN) Determine what statistical procedures are applicable for Discrete Search Techniques analysis.

2.5 (S/CL-3/NOFORN) Under laboratory conditions, test the different statistical procedures by applying them against identical search tasks of interest to Project CENTER LANE.

2.6 (S/CL-3/NOFORN) Under laboratory conditions, test what are found to be the most efficient and accurate statistical procedures by applying them against varying search tasks of interest to Project CENTER LANE.

2.7 (S/CL-3/NOFORN) Research the literature and published documentation to determine the best methods for performing Continuum Search (Dowsing) Techniques.

2.8 (S/CL-3/NOFORN) Under laboratory conditions, test the Continuum Search (Dowsing) Techniques against tasks of interest to Project CENTER LANE.

2.9 (S/CL-3/NOFORN) Choose a subject, then demonstrate the feasibility of each search technique developed against tasks assigned by and under the control of Project CENTER LANE.

2.10 (S/CL-3/NOFORN) Provide an overall evaluation of the feasibility targets tasked during the capability demonstration.

2.11 (S/CL-3/NOFORN) Provide an overall evaluation of the Target Search Task, and propose a training scenario for personnel selected selected by Project CENTER LANE.

3. (U) SECURITY

(U) Military security requirements in the performance of this contract will be maintained in accordance with the "CENTER LANE SECURITY PROCEDURES GUIDE," dated 1 March 1983 (S/CL-1/NOFORN/ORCON). The highest classification involved in the performance of this contract is SECRET/CL-4/NO FOREIGN DISSEMINATION/ORIGINATOR CONTROLLED.

4. (U) DELIVERABLES

(U) SRI International will provide the following:

4.1 (S/CL-3/NOFORN) State-of-the-Art information on Search Target Techniques.

4.2 (S/CL-3/NOFORN) A progress report (2 copies)--a written evaluation of findings (within 10 days of completion) of Phase I, investigation of the Discrete Search Techniques.

4.3 (S/CL-3/NOFORN) A progress report (2 copies)--a written evaluation of findings (within 10 days of completion) of Phase II, investigation of the Continuum Search Techniques.

4.4 (U) A Final Report

4.4.1 (S/CL-3/NOFORN) A final report (3 copies) will be furnished within 30 days following completion of the overall evaluation of the Target Search Task.

4.4.2 (U) The report will include a summary of experiments performed in each area, an evaluation of each of those experiments, and written comparability evaluations of one technique to another.

4.4.3 (U) The report will provide a prioritized list of techniques that are trainable, and a recommendation concerning future training of individuals identified by Project CENTER LANE.

5. (U) ACCESS TO MATERIAL

(U) Reasonable access to raw data material will be made to CENTER LANE personnel to ensure a full understanding of statistical methodology used during evaluations.

6. (U) SPECIAL REQUIREMENTS

(U) Requirements concerning the use of human subjects as outlined in the INSCOM Statement of Work dated 22 July 1983 will be adhered to.

ROBERT S. LEONARD

Director
Radio Physics Laboratory
Research & Analysis Division

SPECIALIZED PROFESSIONAL COMPETENCE

Radio-wave propagation: in normal environments; in naturally disturbed environments (aurora); in manmade disturbances (nuclear explosions)

REPRESENTATIVE RESEARCH ASSIGNMENTS AT SRI (since 1961)

Project director of a program to remotely sense nuclear detonations during the U.S. high altitude nuclear test program

Led a research effort to improve the U.S. capability to detect foreign nuclear test by their effect on radio propagation

Technical director of a large multicontractor research program to study the effects on radio propagation of an artificially produced ionospheric plasma

Technical director on a program to develop special communications techniques

OTHER PROFESSIONAL EXPERIENCE

Instructor, researcher, and graduate student, Geophysical Institute, University of Alaska: HF and low VHF radio-wave propagation studies of auroral effects; designed, developed, and tested a prototype of the 41-MHz auroral radar used in the U.S. IGY program; installed and operated the six Alaskan IGY-auroral radars, and analyzed the data collected during the IGY

Teaching assistant, Physics Department, University of Nevada

ACADEMIC BACKGROUND

B.S. (1952) and M.S. (1953) in physics, University of Nevada; Ph.D. in geophysics (1961), University of Alaska

PUBLICATIONS

"Observations of Ionospheric Disturbances Following the Alaska Earthquake," J. Geophys. Res. (March 1965); "Selection of a Model of the Earth's Magnetic Field," J. Geophys. Res. (December 1962); "Evidence of Low-Frequency Amplitude Fluctuations in Radar Auroral Echoes," J. Geophys. Res. (April 1962); "Distribution of Radar Auroras over Alaska," J. Geophys. Res. (March 1962); "A Low Power UHF Radar for Auroral Research ," PIRE (February 1959); plus numerous scientific and technical reports

PROFESSIONAL ASSOCIATIONS

American Geophysical Union
Union Radio Scientifique Internationale

EDWIN C. MAY

Senior Research Physicist
Radio Physics Laboratory
Research and Analysis Division

SPECIALIZED PROFESSIONAL COMPETENCE

Charged particle and gamma-ray spectroscopy; analogue and high-speed digital electronics; numerical analysis; real-time computer applications for data acquisition and analysis; research in bio-feedback technology and applications, and cardiac blood flow problems; field research in India and laboratory research at Maimonides Medical Center on psycho-energetic phenomena, aerodynamic analysis from fixed wing, powerless soaring aircraft

OTHER PROFESSIONAL EXPERIENCE

Theoretical calculations in radiation transport;, atmospheric physics, and E & M wave scattering at the RAND Corporation
Experiments in nuclear reaction mechanism and nuclear structure at the U. of California Crocker Nuclear Laboratory
Undergraduate physics teaching at the City College of San Francisco
Equipment engineer and clinical experience at the Bio-feedback Institute of San Francisco
Research consultant on psychokinesis at the Maimonides Medical Center

ACADEMIC BACKGROUND

B.S. in physics, University of Rochester (1962); Ph.D. in physics, University of Pittsburgh (1968)

PUBLICATIONS

Author or coauthor of eleven scientific papers in experimental nuclear physics research;
Author or coauthor of numerous scientific papers in psychoenergetic research;
Author or coauthor of eleven research abstracts in nuclear physics for professional meetings
Author or coauthor of ten abstracts in psychoenergetic research for professional and meetings

PROFESSIONAL ASSOCIATIONS

American Physical Society, American Association for the Advancement of Science, Institute of Electrical and Electronics Engineers, Parapsychology Association, The American Society for Psychical Research

HAROLD E. PUTHOFF

Senior Research Engineer
Radio Physics Laboratory
Research and Analysis Division

SPECIALIZED PROFESSIONAL COMPETENCE

Research in "remote viewing" and other psi phenomena (1972-present)
Research in lasers, quantum electronics, nonlinear optics
Research and development of tunable solid-state lasers, electron beam lasers, microwave tubes

OTHER PROFESSIONAL EXPERIENCE

Research associate, Hansen Laboratories of Physics, and lecturer, Department of Electrical Engineering, Stanford University; teaching, textbook author, research supervisor of Ph.D. candidates in the area of lasers and nonlinear optics

Lieutenant, USNR: in-house research and contract monitoring on DoD (NSA) contracts concerned with the development of ultra high-speed (GHz) computers, assessment of potential of fiber optics and lasers for use in optical computers

Research engineer, Sperry Electronic Tube Division, and Sperry fellow, University of Florida: design and testing of electron-beam focusing systems for use in microwave tubes

ACADEMIC BACKGROUND

B.E.E. (1958) and M.S.E. (1960), University of Florida; Ph.D. in electrical engineering, Stanford University (1967)

PUBLICATIONS AND PATENTS

Author or coauthor of more than twenty-five papers in professional journals on electron beam and laser research, and, more recently, first major publications of research on psi phenomena in Nature ("Information Transfer Under Conditions of Sensory Shielding," Oct. 1974), in the Proceedings of the IEEE ("A Perceptual Channel for Information Transfer over Kilometer Distances," March 1976) and in The Role of Consciousness in the Physical World: AAAS Selected Symposium 57, Ed. R. Jahn, ("Experimental Psi Research: Implications for Physics", Westview Press, 1981

Coauthor of textbook, Fundamentals of Quantum Electronics (Wiley, New York, 1969) published in English, French, Russian;

Coauthor of Mind Reach: Scientists Look at Psychic Ability (Delacorte, New York, 1977);

Coeditor of Mind at Large: IEEE Symposia on the Nature of Extrasensory Perception (Praeger, New York, 1979);

Patent on high-power tunable infrared laser source (50-250 microns)

PROFESSIONAL ASSOCIATIONS AND HONORS

American Association for the Advancement of Science, American Physical Society, Institute of Electrical and Electronics Engineers, Sigma Xi, Department of Defense Certificate of Commendation for Outstanding Performance, IEEE Franklyn V. Taylor Memorial Award for paper "A Scientific Look at ESP," listed in American Men and Women of Science and in Who's Who in the West