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PROPOSED PROGRAM

FOR

DEVELOPMENT OF A REMOTE PK SWITCH (U)

1. PROGRAM OBJECTIVE (U)

a. (S-NOFORN) General: This effort will investigate evidence that certain individuals, when in proximity to random statistical processes (e.g., radio active decay, electronic diode noise) affect the statistics of that process. Experiments to date have shown statistically significant effects, while none of the experiments show similar departures from randomness during control runs without intended influence. Specific tasks are designed to investigate and provide detailed assessments of the feasibility of error-correcting coding of statistical output to result in a remote PK switch with low alarm rate and in determining the mechanism by which such a device operates.

b. (S-NOFORN) Specific effort will be placed on the following:

(1) TASK 1 (U)

(S-NOFORN) Perform a coordination effort to consolidate related work in the PK area with emphasis on elimination of duplication of effort and the definition of the present state of the art. The primary goal of this task will be to provide a clear well defined approach toward identification of the PK phenomena. This approach will include the reviewing of past PK research tasks resulting in the isolation of efforts and techniques which have yielded the most significant results. Information obtained during the performance of this task will be directly utilized in the remainder of the tasks identified in this scope.

(2) TASK 2 (U)

(S-NOFORN) Utilizing existing information as the foundation of the research and development efforts and working in conjunction with the most knowledgeable contractor organizations in the field, an effort will be initiated to prove feasibility of a practical PK controlled switch. Dedicated hardware will be fabricated to show feasibility and research and development efforts will be performed to show the level of control possible within our present knowledge of the PK phenomena. The hardware developed will be designed with the final goal in mind of determining the mechanisms by which the PK effect works.

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Declassify on	ADM Sys Div, USAMIA
Excluded from automatic	1&2
Excluded from automatic	NBO

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(3) TASK 3 (U)

(S-NOFORN) Utilize the latest in applied mathematics to thoroughly research the basic laws and latest theories of system entropy states and how these states may be altered by external stimuli. The goal of the effort will be to show mathematically the requirements for decreasing system entropy and determine if this decrease can be produced by an external non-interacting stimulus. The effects of such control will also be researched.

(4) TASK 4 (U)

(S-NOFORN) Layout a clear scientifically based program to use the PK switch to research the mechanisms of control. This effort will attempt to isolate any energy transfer from the controller to the PK switch as well as determine the level of control which can be exerted. This program will involve the use of the PK switch as the basis for the research and development effort directed toward mechanism identification. The program will also involve the consolidation of inputs from the various groups and organizations working in the specific technology area.

3. METHODOLOGY (U)

(S-NOFORN) The contractor, US Army Missile Intelligence Agency, and the Advanced Systems Directorate of MIRADCOM, will participate in a coordinated effort in performing tasks 1a, 2b, 2c and 2e. The Missile Intelligence Agency and the Advanced Systems Directorate will perform complimentary efforts with the development of the PK switch as defined in the remaining tasks. Data base and technical liaison will be provided by the US Army Missile Intelligence Agency's and Advanced System Directorate's technical monitor.

4. SECURITY (U)

(U) Reference Defense Intelligence Agency meeting on 28 Nov 78. As agreed in referenced meeting Project GRILL FLAME will require special access.

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- a. Review and consolidate past research to isolate efforts and techniques which have yielded most significant results. SRI - 2 MM  
MIRADCOM - 1 MM
- b. Based upon review, layout a research program designed to demonstrate feasibility of a PK switch. MIRADCOM - 2 MM

TASK 2 (11 Months)

- a. Computer simulation MIRADCOM - 4 MM
- b. Hardware design (random number, computer) MIRADCOM - 2 MM  
Purchase necessary hardware. SRI - 26 K  
MIRADCOM - 100K
- c. SOFTWARE design. SRI - 6 MM  
MIRADCOM - 12 MM
- d. Integration of Hardware MIRADCOM - 5 MM
- e. Perform R&D Tests, Software modification SRI - 7 MM  
MIRADCOM - 13 MM

TASK 3 (11 Months)

- a. Applied mathematics to analyze entropy effects at the quantum level and how these effects follow the PK phenomena. MIRADCOM - 11 MM

TASK 4

Follow-on effort to be performed at the Completion of Tasks 1, 2, 3.

(S-NOFORN) Layout a clear scientifically based program to use the PK switch to research the mechanisms of control. This effort will attempt to isolate any energy transfer from the controller to the PK switch as well as determine the level of control which can be exerted. This program will involve the use of the PK switch as the basis for the research and development effort directed toward mechanism identification. The program will also involve the consolidation of inputs from the various groups and organizations working in the specific technology area.

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Exemption	1, 2
Declassify on	NBO

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GRILL FLAME SECURITY AGREEMENT

I, \_\_\_\_\_, understand that the highly sensitive and classified information I am to receive as part of the GRILL FLAME Program belongs to the United States Government. I understand that disclosure of this information is punishable under Title 18, Section 798, U.S.C. "Disclosure of Classified Information," June 1948 as amended.

I do solemnly swear that I will never divulge, publish, or reveal by word, conduct, or by any other means such classified information or knowledge, except in the performance of my official duties, and as specifically authorized in writing in each case by the appropriate agency of the United States Government.

I understand that no change in my assignment or employment will relieve me of my obligation under this agreement and that the provisions of this agreement will remain binding upon me even after the termination of my services with the United States Government.

I take this obligation of my own free will, without any mental reservation or purpose of evasion.

DATA REQUIRED BY THE PRIVACY ACT OF 1974  
(5 U.S.C. 552a)

1. Authority: National Records Act, 44 U.S.C. 3102; E.O. 9397, Numbering System for Federal Accounts Relating to Individual Persons, November 22, 1943.
2. Principal Purpose: To maintain a record of those individuals who have or have had access to GRILL FLAME information through the use of their name and/or Social Security number.
3. Routine Uses: The Social Security number is to be used to identify the individual and the information is to be retained strictly within the Program.
4. Mandatory or Voluntary Disclosure: Information is disclosed on a voluntary basis, but withholding information will render it impossible to grant an individual access to or participation in the Program.

DATE \_\_\_\_\_

WITNESS:

SIGNED:

\_\_\_\_\_  
NAME, RANK/GRADE

\_\_\_\_\_  
NAME, RANK/GRADE

\_\_\_\_\_  
UNIT/ORGANIZATION

\_\_\_\_\_  
UNIT/ORGANIZATION

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POSITION

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POSITION

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# OUTLINE

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- INTRODUCTION
  
- BACKGROUND
  - REMOTE VIEWING
  - PSYCHOKINESIS (PK) RESEARCH
  
- THEORY
  - MULTIDIMENSIONAL SPACE
  - ENTROPY MODIFICATION
  
- PROPOSED PROGRAM
  - TASK DEFINITION
  - SCHEDULE & COST

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**MECHANISMS**

**REMOTE VIEWING**

- ELF
- MULTIDIMENSIONAL MODEL
- BINARY TARGETS
- SUBMARINE

**PSYCHOKINESIS (PK)**

- R.E.G.
- STATISTICS SKEWING
- ENTROPY MODEL
- SEQUENTIAL ANALYSIS
- MICROCOMPUTER

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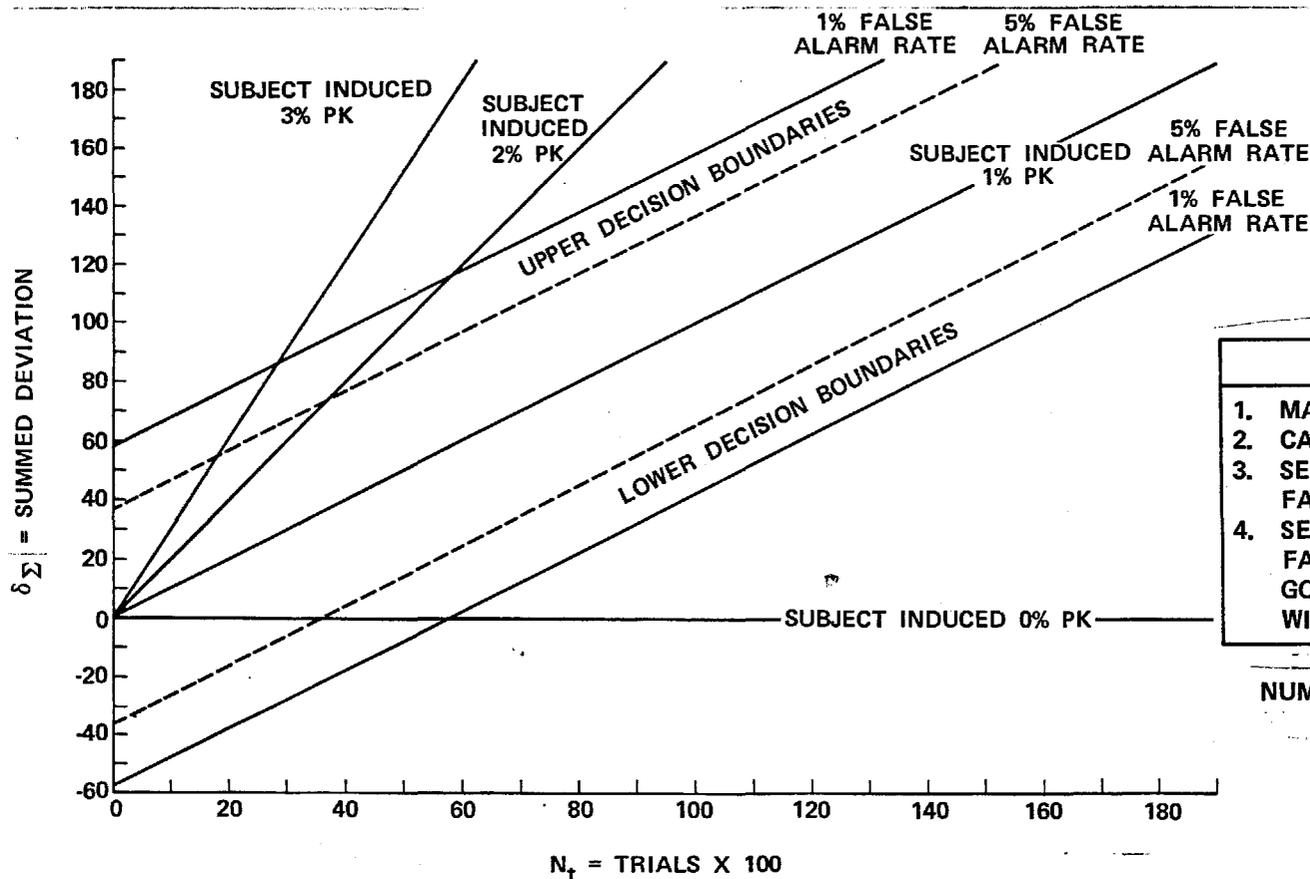
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# SEQUENTIAL ANALYSIS



SEQUENCE	
1.	MAKE TRIAL
2.	CALCULATE
3.	SEE IF $\delta_{\Sigma} >$ UPPER 1% FALSE ALARM RATE; IF NOT
4.	SEE IF $\delta_{\Sigma} <$ LOWER 1% FALSE ALARM RATE; IF NOT GO TO 1; OTHERWISE STOP WITH NO SWITCH CLOSURE

$$\text{NUMBER OF HITS} = \frac{\delta_{\Sigma} \cdot N_t}{2}$$

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**PROPOSED PROGRAM**

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- COORDINATION EFFORT (MIRADCOM)
  
- DEVELOP PK SWITCH
  - SOFTWARE
  - HARDWARE
  - STATISTICAL PROGRAM
  
- EXPAND ENTROPY & MULTIDIMENSIONAL THEORIES
  
- FORMULATE PROGRAM FOR MECHANISM RESEARCH

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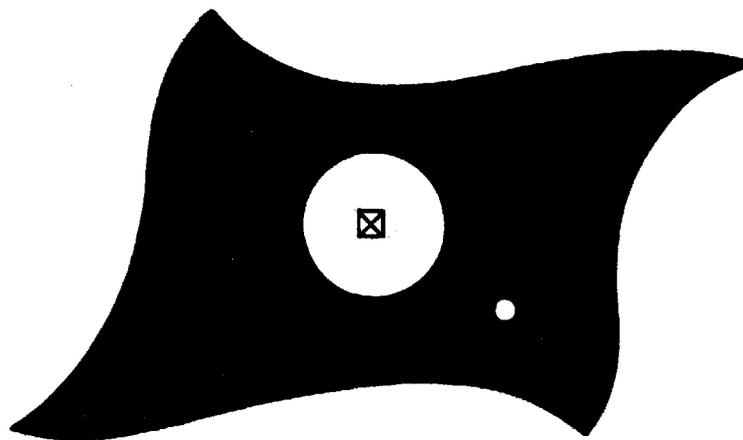
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**TWO-DIMENSIONAL ANALOGY**



INFINITE PLANE



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**DEVELOP PK SWITCH**

- ENTROPY MODIFICATION
- PERTURBATIONS OF RANDOM NUMBER GENERATOR
- STATISTICAL ANALYSIS
  - 1% FALSE ALARM
  - 1% FAILURE TO OPERATE
- INITIALLY ON PDP-11 COMPUTER
- DEVELOP MICROPROCESSOR HARDWARE

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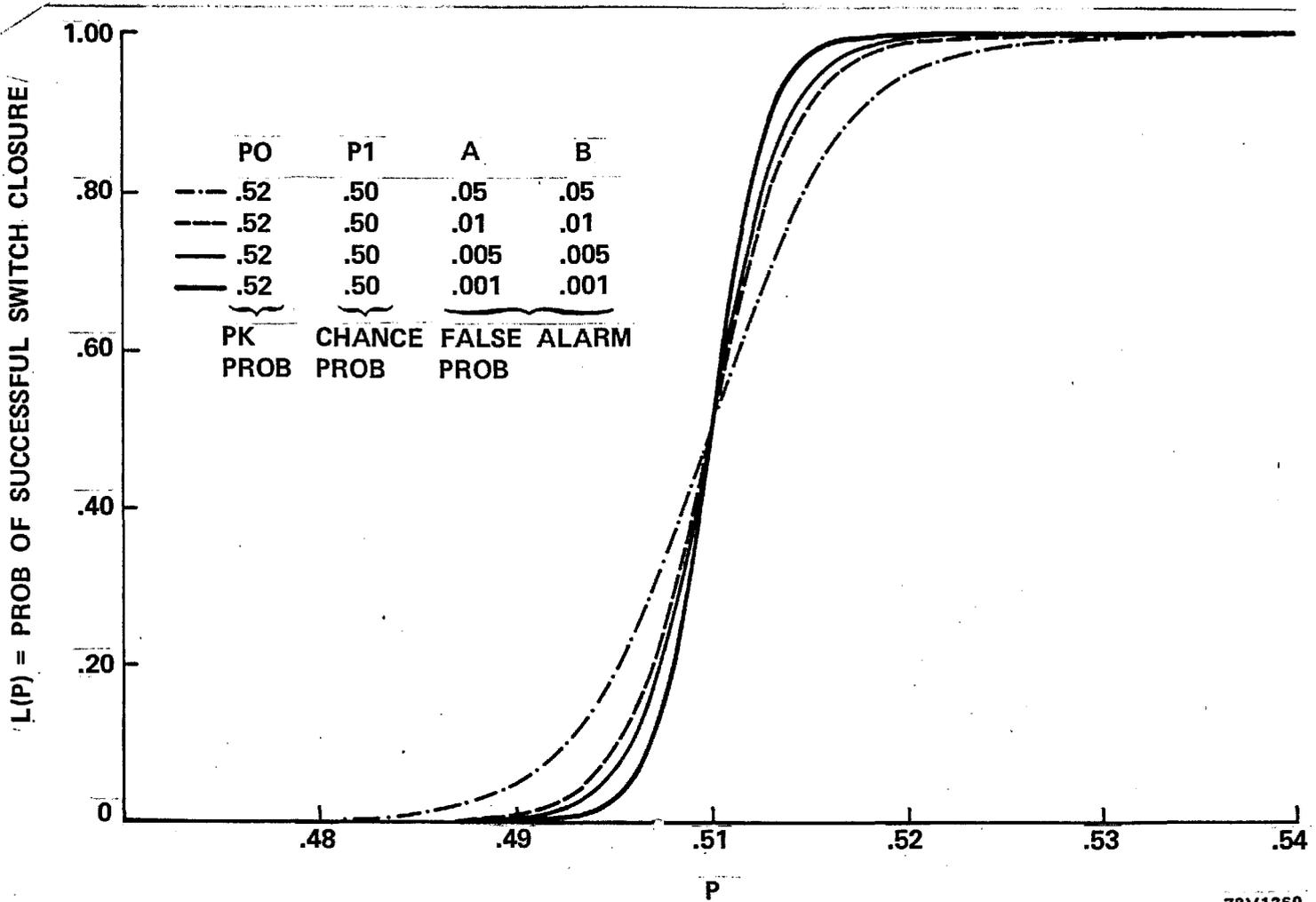
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**OPERATING CHARACTERISTIC CURVE**



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