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IV. (U) BASIC RESEARCH:

1. Neurophysiological Correlates:

- Determine potential magnetoencephalograph (MEG) visual response correlates:
  - Between talented people and a variety of external near-field stimuli conditions.
  - Between talented people and a variety of external far-field stimuli conditions.
- Determine potential MEG non-visual correlates:
  - Between talented people and a variety of external near and far field stimuli conditions.
- Initiate research to identify and locate brain areas where parapsychological data may originate:
  - Extend research to show how data is eventually processed into conscious awareness.

2. Psychophysical Correlates:

- Determine potential for psychophysical parameters:
  - Galvonic skin response (GSR).
  - Other central nervous system (CNS) parameters.
  - Role of distance and other variables.
  - Potential for counter-influence.

3. Physical/Psychophysical Model Exploration:

- Role of target "state" (degree of energy, chaos, size, distance, shielding, target format, etc.).
- Role of psychological factors (goal, empathy, target type, etc.).

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- Role of other possible influencing parameters (i.e., no "sender" present, presence of "sender," and degree of linkage).
  - Other candidate factors.
4. Altered State Investigations:
- Determine if various altered states can improve data reliability (eg., lucid states, deep relaxation conditions).
  - Determine if various altered states correlate with cognitive style or with target type.
5. Potential Influences of External Fields:
- Determine if geomagnetic influence can affect results.
  - Develop new experiments with adjustable external field conditions.
6. Develop a Comprehensive Target Pool:
- To help sort out possible target characteristic influences.
  - To use as a possible screening device.
  - For assessing application issues.
7. Initiate Evaluation of "Energetics":
- Identify possible "follow-on" with available select talent (when located).
  - Visit people/areas to observe demonstration.
  - Identify equipment monitoring needs.

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V. (U) APPLIED RESEARCH:

1. Neurophysiological Correlates:

- Develop magnetoencephalograph (MEG) screening/selection techniques (visual, non-visual).
  - Measure sufficient known talent.
  - Measure other select populations (e.g., creative, yogi, martial arts).
  - Measure general population.
- Examine feasibility for refinement to permit talent sorting according to task type or need (e.g., visual vs. verbal style).
- Perform follow-on talent validation experiment with new candidates to confirm MEG findings.
- Use as a check for training/development status or progress.
  - Evaluate individual strategies.
  - Evaluate specified training programs.
  - Examine feasibility of transmitting information (i.e., via redundancy coding methods) for near-field and far-field conditions according to cognitive style.

2. Physiological Correlates:

- Determine potential of information transmission via GSR or other CNS parameters.

3. Application-Oriented Issues:

- Investigate neurophysiological/psychophysical measures useful for predicting data quality.
- Determine if self reports, focused intent, or other factors can be found that help in predicting data quality.

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- General screening investigations:
  - Develop new target pools that are comprehensive and can identify various talent and talent preferences.
  - Conduct in-depth study of people previously involved in this research to search for patterns in background, personality, or other factors.
  - Reassess/investigate psychological or psychophysical measures that show promise for screening:
    - Defense Mechanism Test (DMT).
    - Stanford Hypnotic Suggestibility Scale.
    - Subliminal Perception Responses.
- Application improvements (Intelligence Related):
  - Examine methods for improving information quality or reliability:
    - New internal strategies.
    - Task/response timing.
    - Specific goal setting.
    - Spatial/temporal issues on strategies for search improvement.
    - Determine if results from conventional altered state research have applicability to application quality/reliability improvement.
    - Conduct various experiments, review data bases, and apply various evaluation methods to determine application potential and to identify methods of improving data quality as appropriate.

Explore other applications:

- Communications potential:

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- Use of redundancy coding (with conscious response).
- Incorporate with other basic/applied projects.
- Simulate "real" problems:
  - Hostages (lost people).
  - Underground or submarine environment.
- Predictive:
  - Identify approaches for follow-on.
  - Involve other labs, other talent.
  - Examine influences of event complexity, time-of-occurrences.
  - Tie to psychological/cognitive style.
- Code breaking:
  - Perform preliminary investigations for follow-on.
- Training Developments:
  - Develop improved ways to measure or evaluate the role of training, the training method, practice, goal setting, session timing, or other factors.
  - Review a wide variety of "training development" approaches to identify candidate avenues for new basic/applied research (e.g., potential use of subliminal perception training).
  - Compile appropriate evaluation procedures and statistics:
    - Use of control groups.
    - Improved artificial intelligence methods.

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- Bias detection methods.
- Other

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VI. (U) OTHER ACTIVITIES:

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2. Develop "Multi-Disciplined: Research Plan:
  - To incorporate findings from FY91 work.
  - Develop new interlab/interdisciplinary links with:
    - Neuro-cognitive sciences.
    - Optical data processing/neuro network technology.
    - Altered state research:
      - Hypnogogic/Hypnopompic
      - Other
    - Advanced physical theories:
      - Recent viewpoints on gravitation.
      - Postulates involving scalar waves.
      - Other
3. Activity Support:
  - Research Management.
  - Scientific Oversight Committee (SOC).
  - Human Use Review.
  - Computer Support.
  - Misc. (Admin., TDY).

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VII. (U) SCHEDULE CONSIDERATIONS:

(U) The following pages contain table summaries of key activities identified in the previous sections. Estimated level-of-effort, as well as key milestones and other data, are included on the tables.

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EXTERNAL SUPPORT - FY91

BASIC RESEARCH

<u>AREA</u>	<u>EST. LEVEL OF EFFORT</u>	<u>EST. START</u>	<u>EST. COMP.</u>	<u>INTERFACE</u>
1. Neurophysiological Correlates				
- Visual Response MEG				
- Non-Visual MEG				
- For Select and Control Groups				
- For Near and Far Field				
2. Physiological Correlates				
- Candidate CNS				
- Near and Far Field				

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EXTERNAL SUPPORT - FY91

BASIC RESEARCH

<u>AREA</u>	<u>EST. LEVEL OF EFFORT</u>	<u>EST. START</u>	<u>EST. COMP.</u>	<u>INTERFACE</u>
3. Energetics Phenomenon				
- Initiate Review				
- Locate People				
- Develop In-Depth Plan				
- Identify Equipment				
4. Physical/Psychophysical				
- Physical, Cognitive Constructs				
- Target State, Environment				
- Possible Variables				
- Comprehensive Target Pool				
- External Field Effects				

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EXTERNAL SUPPORT - FY91

BASIC RESEARCH

<u>AREA</u>	<u>EST. LEVEL OF EFFORT</u>	<u>EST. START</u>	<u>EST. COMP.</u>	<u>INTERFACE</u>
5. Altered State Investigations				
- Lucid States; Other Noise Reduction Conditions				
- Correlation to Cognitive Style				
6. Review of Relevant Conventional Research				
- Neurosciences/Biophysical				
- Advanced Physics				
- Psychological Issues				

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EXTERNAL SUPPORT - FY91

APPLIED RESEARCH

<u>AREA</u>	<u>EST. LEVEL OF EFFORT</u>	<u>EST. START</u>	<u>EST. COMP.</u>	<u>INTERFACE</u>
1. Neurophysiological Correlates				
- Visual MEG				
- Non-visual MEG				
- Select, Control Groups				
- Information Transmission				
2. Physiological Correlates				
- CNS Parameters				
- Screening/Selection				
- Information Transmission				

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EXTERNAL SUPPORT - FY91

APPLIED RESEARCH

<u>AREA</u>	<u>EST. LEVEL OF EFFORT</u>	<u>EST. START</u>	<u>EST. COMP.</u>	<u>INTERFACE</u>
3. Application Enhancement				
- Factors for Predicting/ Improving Data Quality				
- Pattern Analysis				
- Strategies, Training				
- Other				
- Use of Multiple Sources				
- Task/Person Matching				
- Calibration Target Pools				
- Talent Quantification				
- Insight from Talented People				
- Use of Selection Aids				
- Psychophysical Measures				
- Subliminal, Other Scales				
- MEG Findings				

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EXTERNAL SUPPORT - FY91

APPLIED RESEARCH

<u>AREA</u>	<u>EST. LEVEL OF EFFORT</u>	<u>EST. START</u>	<u>EST. COMP.</u>	<u>INTERFACE</u>
4. Explore Various Applications				
- Intelligence Needs				
- Communication Potential				
- Subconscious (MEG)				
- Conscious (RV, Other)				
- Coding Techniques				
- Predictive				
- Preliminary Investigations				
- Develop Follow-On Plan (FY92+)				
- Multi-Labs				
- Timing/Complexity				
- Cognitive Style				
- Code Breaking				
- Preliminary Investigations				

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EXTERNAL SUPPORT - FY91

APPLIED RESEARCH

<u>AREA</u>	<u>EST. LEVEL OF EFFORT</u>	<u>EST. START</u>	<u>EST. COMP.</u>	<u>INTERFACE</u>
5. Training/Development Investigations				
- Review Worldwide Literature				
- Role of Training, Practice, Goal Setting, Other				
6. Evaluation Procedures/Statistics Manual				
- Research Projects				
- Various Operational Activities				

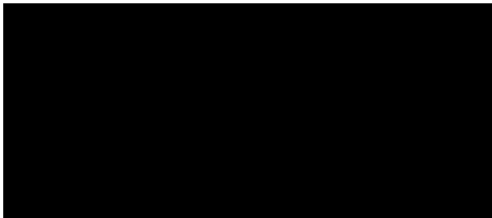
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EXTERNAL SUPPORT - FY91

OTHER ACTIVITIES

<u>AREA</u>	<u>EST. LEVEL OF EFFORT</u>	<u>EST. START</u>	<u>EST. COMP.</u>	<u>INTERFACE</u>
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2. Develop Comprehensive Multi-Disciplinary Plan (For FY92+)
  - Integrated, Multi-Lab
  - Neurosciences/Cognitive Sciences
  - Advanced Research (Physics, Biophysics)
  - Other

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EXTERNAL SUPPORT - FY91

OTHER ACTIVITIES

<u>AREA</u>	<u>EST. LEVEL OF EFFORT</u>	<u>EST. START</u>	<u>EST. COMP.</u>	<u>INTERFACE</u>
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3. Activity Support

- Research Management
- Scientific Oversight Committee (SOC)
- Human Use Review
- Computer Support
- Travel
- Administration

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