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5.4 (S/NF) Some of the experiments/investigations required to fulfill this contract may require participation of select government personnel. All such investigations will be fully planned and coordinated with the COTR and will be under the purviews of the SOC and the Human Use Review Committee.

5.5 (U) Should unforeseen schedule of other issues arise concerning any of the specific tasks identified in section 6.0, the COTR will be given immediate notice. If necessary, adjustments to priorities and schedules can be approved by the COTR if there is no cost or other impact on the over-all program. The COTR will also review/approve all anticipated research protocols.

5.6 (U) All items in sections 6.0 and 7.0 will be funded from R&D funding provided by this contract, and shall be expended NLT 18 months after contract award. Accounting procedures to clearly identify the R&D expenditures shall be implemented by the contractor.

5.7 (U) Terms of reference and additional task details are on file by the COTR and will be provided to the contractor to insure adequate task understanding. This material is contained in DIA publication DT-S-1007-S, 29 NOV 1990.

6.0 (S/NF) **SPECIFIC TASKS:**

6.1 (U) Basic Research:

6.1.1 (U) Biophysical Measurements:

6.1.1.1 (U) Perform magnetoencephalograph (MEG) brain wave measurements for the purpose of isolating neurophysical parameters that correlate with anomalous cognition performance. Leading personnel candidates identified from previous work should be used, along with new unique population groups. Emphasis will be on sender/no sender conditions for phase shift parameters associated with remote light stimuli.

6.1.1.2 (U) Perform MEG measurements as identified in 6.1.1.1 to include other (e.g., audio) or combined remote stimuli.

6.1.1.3 (U) Perform MEG measurements as identified in 6.1.1.2 to include variations to the nature (e.g., pattern, intensity) of the remote stimuli.

6.1.1.4 (U) Perform MEG measurements as identified in 6.1.1.1 to determine if MEG results are influenced by changes to physical parameters (such as shielding, distance) of the remote stimuli. This effort may require the assistance of another cooperative laboratory. Additional instrumentation would also be required to resolve experimental timing issues.

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6.1.1.5 (U) Based on MEG measurements as defined by base line data developed in 6.1.1.1 determine the effect of moving MEG instrumentation locations to different areas of the brain. This effort could help better isolate precise areas of the brain associated with anomalous cognition functioning.

6.1.1.6 (U) Perform counterpart electroencephalograph (EEG) measurements for determining MEG/EEG correlations in general, and for select variables examined in 6.1.1.1 thru 6.1.1.4.

6.1.1.7 (U) Initiate new experiments that involve other sensitive biophysical sensors (such as skin resistance) to search for possible phenomena correlates.

6.1.2 (U) Data Patterns/Parameter Correlations:

6.1.2.1 (U) Perform anomalous cognition experiments in conjunction with computer virtual reality (VR) devices to determine if data quality can be enhanced.

6.1.2.2 (U) Perform anomalous cognition experiments to determine if various subliminal stimuli and/or lowered subliminal thresholds can improve data quality.

6.1.2.3 (U) Perform anomalous cognition experiments with high-performing individuals for beacon/no beacon person conditions at long distances to statistically quantify effects of distance on performance. Several unique target categories or target material should be included to facilitate data pattern recognition.

6.1.2.4 (U) Explore other potential variables (e.g., personality types, training/internal strategy) that could effect anomalous phenomena performance. This activity should include a detailed examination of the "verbalizer" vs. the "imager" to determine the effect of verbal or visual dominated targets/tasks.

6.1.3 (U) Theoretical Issues:

6.1.3.1 (U) Perform anomalous phenomena (energetics, informational) experiments with or in the presence of highly sensitive/advanced instrumentation (e.g., unusual wave devices, gravity sensors) to assist in mechanism identification.

6.1.3.2 (U) Perform experiments similar to 6.1.3.1 but to include potential high-talent individuals (e.g., martial arts experts)

6.1.3.3 (U) If results in 6.1.3.2 show promise, expand experiments to include parameter variations such as distance, shielding, and time (e.g., precognition).

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6.1.3.4 (U) Depending on above results, initiate development of unified physical constructs that could help explain the phenomena.

6.1.3.5 (U) Based on 6.1.3.4, identify potential new experiments that could help further resolve underlying mechanisms and possible limitations.

6.1.3.6 (U) Initiate work on exploratory constructs that integrate latest neuroscience findings with anomalous phenomena patterns and cognitive style. Where possible, relate these findings to various target types and characteristics (such as information entropy).

6.2 (U) Applied Research:

6.2.1 (S/NF) Based on the results from the basic research in the SOW, develop suitable anomalous cognition/anomalous perturbation experiments that identify possible application ranges or limits.

6.2.2 (S/NF) Develop new data and target analysis techniques (such as modified artificial intelligence methods) that facilitate data evaluation and accuracy/reliability prediction. Other methods, such as those involving fractal image conversion, should also be examined.

6.2.3 (S/NF) Participate in various sponsor-generated application projects to better evaluate potential application issues.

6.3 (U) Research Methodology and Support:

6.3.1 (U) Provide appropriate research methodology support to include reviews/approvals by the established Scientific Oversight Committee, the Policy Board and the Human Use Review Panel.

6.3.2 (U) Provide appropriate management support and appropriate project research support activity to include document preparation, administration, and all project associated travel for contractor personnel, consultants, and other experts.

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7.0 (U) **QUICK REACTION CAPABILITY (QRC):** The contractor will maintain a quick response capability and be prepared to respond in less than 24 hours to problems or unexpected demands for brief technical papers that may be developed during the term of this project.

8.0 (U) **ALLOCATION OF EFFORT:** The level of effort to be applied to each basic task category is shown in the following paragraphs.

8.1 (U) **R & D:**

| <u>Basic Task No.</u> | <u>Allocation of Effort/ % Funding (R&D)</u> |
|-----------------------|--|
| 6.1 | 40 |
| 6.2 | 35 |
| 6.3 | 20 |
| 7.0 | 5 |

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