

Attachment 1

To

F04701-87-C-0065

Rockwell International Corporation

Statement of Work

For

Space Based Interceptor*
(SABIR)

System Concept and Integrated Technology (SCIT)

87 May 11

* Formally Known as Space Based Kinetic Energy Weapon System (SBKEWS)

This Attachment consists of 16 pages, including cover page.

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1.0 SCIT Objectives and Scope

1.1 Objectives

The objectives of the SCIT are to develop data based on hardware to support a 1990 decision to proceed with the development of a basic SBKEWS. These data shall consist of:

- (a) Proof-of-concept results from integrated technology demonstrations of critical technologies and functions inherent to the basic SBKEWS.
- (b) Basic system concept including detail design data consisting of requirement specifications, allocation, interface, logistics, operational user requirements, IOC planning and life cycle cost.
- (c) Evolutionary development planning and identified traceability to an advanced reference SBKEWS concept.
- (d) Basic system concept evaluation results employing a full system simulator/emulator (S³/E) including hardware-in-the-loop elements where applicable.
- (e) Updated assessment of the SBKEWS technology base including identification of new requirements.

1.2 System Concepts & Integrated Technology Scope

The SCIT effort will devise a basic operational system concept based on comprises the following:

- 1) Analyses to support system concept and requirements development;
- 2) Hardware and software demonstration design, fabrication and execution;
- 3) System simulator development, and
- 4) The validation of system concepts through the incorporation of results from the SBKEWS Flight Experiment, integrated technology demonstrations, Light Weight Exo-Atmospheric Projectile (LEAP), and the KKV Hardware-in-the-Loop (KHILS), technology base and other related SDI programs.

The primary focus of the effort will be the development of the integrated demonstrations rather than system concepts.

2.0 Background

In April 1984, the Secretary of Defense established the Strategic Defense Initiative Organization (SDIO) with central responsibility for developing a strategic defense program. The SDIO will perform the research and demonstrations necessary to develop the technology base for a Strategic Defense System.

A potential weapon element of the program is a Space-Based Kinetic Energy Weapon (SBKEW). A multiphase SBKEW program was started in 1985. Phase I was an 18-month effort, in progress, by four contractors having independent and parallel tasking to

- 1) Define the system requirements for an SBKEWS operational system being fielded in the 1990s and
- 2) Define a space intercept experiment(s) to demonstrate the readiness of Kinetic Energy Weapons technology for integration into an operational system.

Additionally, each of the Phase I contractors have developed brassboard/breadboards in high risk, long lead integrated technology areas. This procurement addresses Phase II.

2.1 Reference Documents

Reference Documents for SCIT efforts are given in Appendix 10.12 of the Technical Requirements Document (TRD). These documents are available for reference by the contractor in execution of this effort.

2.2 Definitions

2.2.1 Satellite Point Defense

Defense of a satellite by platforms co-located in the satellite's orbit

2.2.2 Ballistic Missile Defense (BWD)

Defense against ballistic missiles

2.2.3 Area Platform Defense

Defense of SDI assets by a space based system

2.2.4 Phase I

The initial KEW concept definition work

2.2.5 Phase II

The work to be performed under the Flight Experiment and SCIT contracts directed at a basic operational concept

2.2.6 Space Based Kinetic Energy Weapon System (SBKEWS)

A Kinetic Energy Weapon System for the early 1990s that is based on basic technology incorporating a rocket propelled kill vehicle design

2.2.7 Flight experiment

A space flight experiment(s) (orbital or sub-orbital) that demonstrates proof-of-principle for selected driving issues of a SBKEWS

2.2.8 STAR provision

Significant Technological Achievement in Research that is a major program effort related to the SBKEWS with a scope that is currently undefined.

2.2.9 Embedded STAR

Significant Technological Achievement in Research that occurs within the program structure.

2.2.10 KKV Hardware-in-the-Loop Simulator (KHILS)

The KKV Hardware-in-the-Loop Simulator is a Government facility procured by the Air Force Armament Laboratory as follow-on to the Intellect (Interceptor Electronics) Program, which is an outgrowth of WPD K10.2. The objective of KHILS is to provide a flexible test bed to test/validate interceptor kill vehicle hardware and software

2.2.11 SBKEW System Simulator/Emulator (S³g)

The purpose of S³K is to provide system simulations to determine SBKEW system performance, to evaluate system and intersystem trades, and to validate the system concept. S³E is a Government directed Integrated Technology demonstration to be developed under the SCIT program

2.2.12 Integrated Technology Demonstration

Hardware and/or software demonstrations for validating SBKEWS functions and resolving driving issues associated with the SBKEWS

3.0 Contractor Tasks

The contractor shall perform the following:

3.1 Compliance Documents

Comply with the following documents of the exact issue shown, to the extent specified under the column entitled "Tailored Application".

3.1.1 System Concept and Integrated Technology Compliance Documents

3.1.1.1 Technical Requirement Document (TRD)

Document: Annex A (Secret)
Title: KEW TRD

Taylor Application: Apply all except appendices 10.7 Attachment A, 10.8 and 10.12

(CDRL 019A2, DI-S-30559, Technical Operating Report)
(CDRL 020A2, DI-S-30559, Technical Operating Report)
(CDRL 026A2, DI-S-3606, System/Design Trade Study Report)
(CDRL 040A2, DI-T-3701A, System Test Plan)
(CDRL 041A2, DI-T-3702A, Contractor Test Plans/Procedure)
(CDRL 042A2, DI-T-3718A, Test Reports - General)
(CDRL 045A2, DI-E-30131, Interface Control Document)

3.1.1.2 Configuration Management

3.1.1.2.1 *MIL-STD-1521B*

MIL-STD-1521B (USAF) 04 Jun 85

Technical Review for the kick-off meeting and Audits for Systems, Equipment, Computer Programs

For the kick-off meeting, System Design Review and Operational Concept Review 1, apply all paragraphs, except: Appendix A, paragraphs 10.3, items n, o, p, and t; Appendix B paragraph 20.3.1, items w, 20.3.2, items f, g, h, j, l, r, 20.3.6; Appendix D, paragraphs 40.2.1, items h, x, ab and ad, 40.5.10, 40.10.3, 40.11, 40.13.9, 40.13.10 and 40.17; Appendix C, Appendices E through K. Add to paragraph 40.3 of Appendix D the following configuration items only

For the Integrated Technology reviews, apply all paragraphs except: Appendix A, paragraphs 10.3, items g, m, n, p, q, t, and u; Appendix B; Appendix C; Appendix D paragraphs 40.2.1 aa, ab, ad; paragraph 40.2.3 b, f, g, i, k, l, 40.10, 40.11, 40.17, 40.18, 40.19, and 40.20; Appendix E paragraphs 50.2.1 c items 8, 11, 15, 16, 50.2.1 i, j, 50.10.3, 50.11; Appendices F, G, H, I, J, and K. Change Appendix A, Section 10 title to "Integrated Technology Requirements Reviews" Change Appendix D, Section 40 title to " Integrated Technology Design Review #1". Change Appendix E, Section 50 title to "Integrated Technology Design Review #2". Integrated Technology Design Review (ITDR) #1 will occur at IT Start +4 months for each IT demonstration. ITDR #2 will occur immediately prior to hardware fabrication or software coding for each IT demonstration.

(CDRL 003A2, DI-A-3024A, Presentation Material)
(CDRL 005A2, DI-A-7088, Conference Agenda)
(CDRL 006A2, DI-A-7089, Conference Minutes)

3.1.1.2.2 DOD-STD-480A

DOD-STD-480A 12 Apr 78 Notice 1 29 Dec 78
Configuration Control – Engineering changes, deviations and waivers

All except: paragraph 5.2, Appendices D and F

(CDRL 039A, DI-E-3128, Engineering Change Proposals)

3.1.1.2.3 MIL-STD-490A

MIL-STD-490A 04 Jun 85
Specification Practices

Apply paragraphs 3.1.1, 3.1.1.1, 3.1.1.2, 3.1.3.1, 3.1.3.2, 3.1.3.2.1, 3.1.3.2.2, 3.1.3.2.5, 3.1.3.2.5.1, 3.1.3.2.5.2, 3.2 (All), 3.3 (All), 4 (All), Appendices I-III, VI

(CDRL 030A2, DI-CMAN-80008, System/Segment Specifications)
(CDRL 031A2, DI-E-3102A, Configuration Item Development Specification)
(CDRL 038A2, DI-E-1126, Revision/Specification Change Notice)
(CDRL 039A2, DI-E-3128, Engineering Change Proposals)
(CDRL 043A2, DI-E-80025, Software Requirements Specification)
(CDRL 044A2, DI-E-80026, Interface Requirements Specification)

3.3.1.2.4 MIL-STD-483A

MIL-STD-483A USAF 04 Jun 85

Configuration Management Practices for Systems, Equipment, Munitions and Computer Programs

Apply paragraphs 3.4.1, 3.4.2, 3.4.7, 3.4.7.1, and 3.4.9. (A-Spec Only) Appendix VII (except paragraph 70.10) Appendix VIII (except paragraph 80.5.6.1.2h)

(CDRL 048A2, DI-E-3106, Specification Maintenance Document; Equipment/Munitions)

3.1.1.3 Integrated Logistics Support

3.1.1.3.1 MIL-STD-1388/IA

MIL-STD-1388/IA 11 Apr 83

Logistics Support Analysis

Use only tasks 101, 102, 201 and 204, delete subtask 101.3. Tailor task 102 as follows:

Change 102.2.1 to read:

"Prepare an LSAP which describes how the LSA program will be conducted to meet program requirements. The LSAP shall include the following elements of information with the range and depth of information for each element tailored to the SCIT effort.

Delete last sentence in paragraph 102.2.1.c. Change 102.2.1.e(8) to read "Transportability Program." Delete subparagraphs 102.2.1.e(9), (10) and (12) through (15). Delete subparagraphs 102.2.1. f, g, i, k through m and o.

Change 102.2.1. h to read "The method by which supportability and supportability related design requirements are disseminated to designers, system engineers and associated personnel."

Change 102.2.2.1. n to read "The procedures, methods and controls for identifying and *recording* problems or deficiencies affecting supportability."

Change 102.2.2 to read "Update the LSAP as required." Delete 102.3.1 *through* 102.3.6. Tailor task 201 as follows:

Task 201.2.3 is changed to read:

"Coordinate as approved by the Government with other SDI program activities of the Government in those Space Logistics areas such as Space Assembly, Service, and Maintenance, Space Systems Standardization, Space Launch and Transportation and other technical endeavors wherein comparable issues are being addressed and analyzed."

(CDRL 022A2, DI-S-7117, Technological Opportunities Report)

(CDRL 028A2, DI-L-7114/T, Logistic Support Analysis Strategy Report)

(CDRL 029A2, DI-S-7115, Use Study/Supportability Factors)

(CDRL 027A2, DI-L-7017A/T, Logistic Support Analysis Plan)

3.1.1.3.2 *MIL-STD-470A*

MIL-STD-470A 03 Jan 83

Maintainability Program for System & Equipment

Delete pars 202.2.1 and replace with the following: "Maintainability shall be allocated the operating/organizational level, and shall include remove and replace action for on-orbit assets, both manned and unmanned. Quantitative maintainability requirements shall include logistics delay times, such that a mean-time-to-restore-system (MTTRS) will include both "awaiting maintenance" and "active maintenance" times. The objective of these allocations is to support the overall system availability requirements so as to provide a foundation for Logistics analysis and planning."

(CDRL 022A2, DI-S-7117, Technological Opportunities Report)

3.1.1.4 Software

DOD-STD-2167 04 Jun 85

Defense Systems Software Development

Systems Soft- Apply paragraphs 5.1, with last sentence deleted, 5.1.1.5 - 5.1.1.7, 5.1.2.4, 5.1.3, 5.1.4, and 5.2

(CDRL 043A2, DI-MCCR-80025, Software Requirements Specification)

(CDRL 044A2, DI-MCCR-80026, Interface Requirements Specification)

3.1.1.5 Other

3.1.1.5.1 *NACSIM 5004*

NACSIM 5004 23 May 86

Tempest Countermeasures within the Continental United States

Apply all

3.1.1.5.2 *AFR 800-23*

AFR 800-23 23 May 86

System Security Engineering Management

Apply paragraphs 1, 2a, 3, 4, 5, 6, 14, 15

(CDRL 035A2, DI-R-3572, System Security Plan)

3.1.1.6 *MIL-STD-1556B*

MIL-STD-1556B 24 Feb 86

Government/Industry Data Exchange Program to the extent necessary (GIDEP) Contractor to respond to and Participation Requirements generate alerts. Voluntary participation in the other data interchanges is voluntary but not mandatory.

Apply paragraph 4.1.b.

(CDRL 032A2, DI-QCIC-80125, Alert/Safe-Alert)

(CDRL 033A2, DI-QCIC-80126, Response to an Alert/Safe-Alert)

3.1.1.7 MIL-STD-785B

MIL-STD-785B

Reliability Program for Systems and Equipment Development and Product

Apply only tasks 104 and 201-203

(CDRL 036A2, DI-R-30509A, Reliability Allocations, Assessments and Analysis Report)

3.2 System Concept and Integrated Technology Task Narratives

3.2.1 Integrated Technology

3.2.1.1 Integrated Technology Demonstrations

Maintain an Integrated Technology Plan (CDRL 040A2). This plan shall identify the full set of hardware/software developments and demonstrations and shall include the criteria and justification for the set of Integrated Technology Demonstrations required for the decision milestone.

Demonstration Definition

For each of the Integrated Technology demonstrations to be executed, refine and maintain hardware/software development and demonstration definitions. Perform analyses to determine the feasibility, utility, and cost effectiveness of these demonstrations. Perform analyses to determine the scope, scale, and level of demonstrations, perform system engineering studies and system integration studies. Develop system flow charts, system level schematics, Process and Instrumentation Diagrams and other system tasks. Provide performance and software function allocations, prepare specifications, develop and maintain interface analysis and control, and management. (CDRLs 007A2, 019A2, and 020A2)

3.2.1.1.2 Demonstration Design

For each of the Integrated Technology demonstrations to be executed, design the required demonstrations including all test hardware, software, support equipment and test facility requirements, maximize use of Government and other contractor test facilities. Perform detailed designs of test articles, test hardware, support equipment, software, and facilities not already available. (CDRLs 007A2 and 020A2)

3.2.1.1.3 Test, Safety, and Security Planning

For each of the Integrated Technology demonstrations to be executed, plan for test, safety and security for each demonstration. Define the test objectives, test set-ups, support requirements. Instrumentation, calibration, test procedure, expected measurements, and all special equipment. Detailed demonstration evaluation criteria shall be developed. Provide a security operations plan

that defines requirements and implementation method. The security plan shall include all security items, security requirements, and traceability of requirements. The safety plan should include all direct and related system safety management and engineering tasks and activities. Identify test risks and options for risk reduction. (CDRLs 007A2,020A2, 035A2, and 041A2)

3.2.1.1.4 Acquisition, Fabrication and Integration

For each of the Integrated Technology demonstrations to be executed, acquire, fabricate, and/or integrate the necessary parts, demonstration articles, test hardware, software and support equipment and facilities required to conduct the demonstrations defined previously. (CDRLs 007A2, 009A2,017A2, and 020A2)

3.2.1.1.5 Operation and Analysis

For each of the Integrated Technology demonstrations to be executed, conduct the Integrated Technology Demonstration(s). Reduce and analyze the data. Perform an analysis to determine if the demonstration requirements are satisfied. If the demonstration requirements are not satisfied assess the impact on the concept development tasks and propose additional tests to meet the demonstration requirements. (CDRLs 007A2, 009A2, 017A2, 020A2, and 042A2)

3.2.1.2 Technology Assessment

Conduct an assessment of the technology required to implement the 5BJcEwS Concept. Prepare a technology development master plan. Through the review of Government and non- government KEW technology efforts in existence, identify all technology requirements and critical technology issues, and assess their risks and criticality relative to meeting major program milestones in accordance with TRO Appendix 10.10. (CDRL 022A2 and 024A2)

3.2.1.3 Reserved

3.2.2 *Reserved*

3.2.3 *Basic System Concept Development*

3.2.3.1 Mission Requirement Assessment

Based on the top-level mission objectives in the SCIT TRO, develop mission requirements for a basic system. Identify, characterize, and define the core issues associated with the development of a SBKEWS and the mission requirements for an SBKEWS with a BMD mission in response to evolving architectures, changing threats and missions, and technology developments. (CDRL 021A2)

3.2.3.2 Methodology Development and System Trades

Develop the necessary methodologies to refine system concepts based on the mission requirements assessment of paragraph 3.2.3.1. The methodologies shall include computer and other simulation tools necessary to fully derive system concepts from system requirements. Develop methodologies to verify system concepts and conduct system to component design trade-off analysis. Conduct systems trade studies for the SBKEWS and its interfaces which incorporate the considerations of life-cycle costs, utility, operational flexibility, risk, development schedule, technology availability, security, survivability. Producibility,

supportability, stressed environment operations and performance. The breadth of the system trades shall include other elements of a basic SDI architecture. Trades shall include both elements internal and external to the SBKEWS. The trades shall include the sensitivity of the SBKEWS to variations in the performance of SDI elements such as SATK& elements (in depth study required in 3.2.3.3 for this area). Exo-atmospheric weapon systems, and BM/C³ elements. (CDKL 026A2)

3.2.3.3 System Requirements Allocation

Perform analyses of the sensitivities between the SBKEWS and other SDI elements in developing balanced requirements for the SBKEWS within a basic SDI architecture. Analyze and define system, interfaces, interactions and requirements allocations to include at least surveillance, BM/C³, Kill Assessment, and exo-atmospheric weapon systems. Perform this analysis for all functions of the SBKEWS mission timeline (initialization, weapon assignment, launch, boost, mid-course, endgame and kill assessment). Develop and maintain an Interface Control Document (ICD) for the SBKEWS within the SDI architecture. (CDRLs 021A2 and 045A2)

3.2.3.4 System Concept Definition

Perform system engineering to develop the SBKKS concept. Perform excursion studies as stated in TRD Appendix 10.7. System concept development shall incorporate at least the requirements for survivability, lethality, logistics, user and security. The development will optimize system performance in terms of mission utility, survivability (see 3.2.3.4.2), performance (leakage), producibility, (see 3.2.3.4.4.), transportability, (see 3.2.3.4.4.) supportability, (see 3.2.3.4.4.) lethality, (see 3.2.3.4.4.) and life-cycle costs. Develop a time phased deployment strategy to the enhanced reference concept of TRO Appendix 10.15 that considers survivability, performance, and evolving threats (architectures) technologies and P³I. (CCDRL 023A2)

3.2.3.4.1 Reserved

3.2.3.4.2 Survivability Requirements

Identify, define and characterize survivability requirements for the SBKEWS to operate effectively in a threat environment as outlined by the TRD. Identify system segments and components that are vulnerable to the threat/countermeasures as stated in the TRO and the survivability enhancement options required to ameliorate these vulnerabilities. Update and refine these analyses as the threat evolves and/or new threat data becomes available. (CDRL 023A2)

3.2.3.4.3 Lethality Requirements

Identify, define, and characterize lethality requirements for an SBKEWS. Incorporate these requirements and the applicable results of lethality analyses from other government and non-government agencies into the SBKEWS concept. (CDRL 023A2)

3.2.3.4.4 Logistics Requirements

Identify, define and characterize the logistic requirements for an SBKEWS. The scope of the logistics requirements development must reflect completeness; all elements necessary for the operation of the SBKEWS must be identified and characterized including ground and space segments. Specifically, develop requirements for a Weapon System in terms of transportability, maintainability, reliability, availability and producibility.

Additionally, the study shall assess the feasibility and desirability of on-orbit spares and on-orbit maintenance, repair or replenishment. Consider the design requirements for accessibility. Modularity, and maintenance of replaceable units. Incorporate in the producibility requirements concepts such as MANTECH engineering for mass production of precision components, or CAD/CAM. (CDRLs 022A2, 023A2, 029A2 and 046A2)

3.2.3.4.5 Operational User Requirements

Identify, define, and characterize user to weapons system interface requirements for an SBJCEWS with reference to Appendix 10.12 of the TRD and identify, define, and characterize complete requirements to train, organize and equip forces to operate the SBKEWS. (CDRL 023A2)

3.2.3.4.6 Security Requirements

Identify, define and characterize security requirements for the SBKEWS with reference to the documents listed in TRD 10.12. Address those physical, personnel, information, communications, and automatic data processing security requirements necessary for the operation of the weapons system free from the effects of damage, destruction denial, compromise, or unauthorized manipulation of critical ground and C³ elements. Integrate these requirements into system concept definition and survivability. (CDRLs 023A2 and 035A2)

3.2.3.5 Acquisition Planning

Plan the program acquisition of the basic system from the present Phase II through full scale development, production, deployment, operations and support, and disposal. Elements of the planning shall include systems engineering, test and evaluation, manufacturing and integrated logistics support. (CDRL 021A2)

3.2.3.6 Affordability

Identify, characterize and evaluate aggressive and innovative cost reduction approaches and methodologies for improving the affordability of SBKEWS through analyses and tradeoffs between design, development, production, test, integration, deployment operations and logistics support against cost. The contractor shall develop cost estimates for all aspects of full-scale development and production and show distribution of costs and how cost reduction could be accomplished in engineering, touch labor, capital investment, management, overhead, etc. Develop Cost Estimating Relationships (CERs) and methods. The justification for cost estimates using these CERs and traceability to the database shall be delineated. Show how these CBR relationships are extended from today's database to the design and technologies required for the SBKEWS application and evaluate and quantify cost reductions, which might be achieved through innovative techniques in specified areas such as:

- Increased production rates;

- CAD/CAM
- Overhead control;
- New testing techniques;
- Parts standardization;
- Adoption of commercial practices;
- Reduction in spacecraft complexity; and
- Expectations from technology advances, etc.

Production learning curve values shall be identified and their use justified based on contractor experience and other exploitable databases. Based on the above analysis, develop life cycle cost estimates for the system concepts. (CDRLs 016A2 and 022A2)

3.2.4 Interface Requirements

3.2.4.1 Flight Experiment-SCIT Contractor Interaction

Incorporate SBKEWS flight Experiment results into the development of the system concept and into the Integrated Technology Demonstration effort.

3.2.4.2 Reserved

3.2.4.3 Government Organizations

Interface with Government organizations such as AEDC, AFSTC, AFRPL, AFATL, as required to plan and execute the Integrated Technology Demonstrations.

3.2.5 System Concept Validation

Validate all elements of the SBKEWS concept with the SBKKW system simulator. Use data from The Integrated Technology Demonstrations, the Flight Experiment, LEAP, KHILS, and the technical base as results become available. (CDRL 042A2)

3.2.6 Reserved

3.2.7 Reserved

3.2.8 Program Meetings

3.2.8.1 SCIT Technical Interchange/Technical Direction (TI/TD) Meetings

Conduct and support TI/TD meetings. TI/TD's will consist of working groups formed from members of the government and contractor, led by branch chiefs, or project engineers to discuss specific topics or issues (e.g. guidance and control, surveillance interface). (CDRL 006A2)

3.2.8.2 Interface Meetings

Attend Flight Experiment Reviews as directed by the Contracting Officer. Additionally, attend meetings such as SDIO architecture, and SSTS and BSTS Meetings and Reviews, and reviews of Government test support organizations, as specified by the Program Office through the Contracting Officer. For planning purposes, there will be approximately five (5) meetings per month, which may be located anywhere in the CONUS.

3.2.8.3 Program Status Review (PSR)

Conduct and support formal Program Status Review at the contractor and/or subcontractor facilities during the first month of every quarter. The first PSR shall include presentation of the updated system concept. PSR's shall consist of an executive summary and briefings to report technical status at the detail level. No MMR will be held during a month in which a PSR is held. (CDRLs, 003A2, 005A2, 006A2)

3.2.8.4 Monthly Management Reviews (MMR)

Conduct and support monthly reviews of program technical, management, and financial status at the contractor and/or subcontractor facilities. These meetings will normally be one-half to one day in length and will be attended by top-level managers from both the government and contractor, and will be limited to discussions defining accomplishment of the program according to plan. Monthly Management Reviews will not be held during months in which a PSR is scheduled. (CDRLs 005A2, 006A2)

3.2.8.5 Operational Concept Review/Final operational Concept Review (OCR/FOCR)

Conduct and support OCRs at the contractor and/or subcontractor facilities, as requested by the contracting officer. There shall be an initial and final OCR. Interim OCRs shall be conducted at milestones agreed upon by the Contracting Officer and Contractor. No MMR or PSR will be held during the months in which an OCR or FOCR is held. (CDRLs 003A2, 005A2, 006A2, 030A2)

3.2.8.6 Integrated Technology Requirements Review (ITRR)

Conduct a meeting at the contractor and/or subcontractor facilities two months after ATP for each Integrated Technology Demonstration to review the operational system requirements allocated to this demonstration in task 3.2.1.1. (CDRLs 003A2, 005A2 and 006A2)

3.2.8.7 Final Integrated Technology Review (FITR)

Conduct a meeting at the contractor and/or subcontractor facilities one month after each Integrated Technology Demonstration to review data and results. This review will also include the results of the analysis performed in task 3.2.1.1.5 to determine if the demonstration requirements were satisfied. (CDRLs 003A2, 005A2, and 006A2)

3.2.9 *Management Support*

Provide information for the Program Planning and Management System (PPMS) on a semi-annual basis. Establish a Program Planning and Management system, which will provide the management systems required to plan, implement, direct, control, and internally audit the program activities. (CDRLs 001A2, 003A2, 010A2)

3.2.10 *Contractor Data Repository*

Establish and maintain a data repository at the contractor's facility for storage and retrieval of data generated by the contractor and subcontractors under the provisions of the contract. Such data shall be maintained in a contractor-selected form with the exception of commercial publications containing copyright markings. Maintain an index of retained data on a current status to reflect the data repository content. The quality of the data retained in the repository shall be such that it can be reproduced by the government for official use without redrawing, retyping, or touch up (CDRL 008A2).

3.2.11 Data Management

Perform data management of all data items specified in the CDRL and elsewhere in the contract. Such effort shall include data identification, preparation, authorization and monitoring, scheduling, inspection, reproduction, and submittal activities.

3.2.12 Quality Assurance Requirements

Perform inspections on integrated technology experimental hardware to ensure that contractor approved workmanship practices have been complied with. (CDRLs 032A2, 033A2)

4.0 Special Considerations

4.1 Office of Primary Responsibility

The Kinetic Energy Weapons Space System Concept Division (*SDICMWK*) of the Strategic Defense Weapons Systems Program Office shall be the Office of Primary Responsibility (OPR) of the SCIT.