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RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)					DATE FEBRUARY 2004				
APPROPRIATION / BUDGET ACTIVITY RDT&E, DEFENSE-WIDE / 3			R-1 ITEM NOMENCLATURE / PROJECT NO. PE 1160402BB Special Operations (SO) Advanced Technology Development						

COST (Dollars in Millions)	FY03	FY04	FY05	FY06	FY07	FY08	FY09	Cost to Complete	Total Cost
PE1160402BB	80.719	105.320	48.803	71.194	54.841	20.333	21.563	Cont.	Cont.
S200, SO SPECIAL TECHNOLOGY	80.719	105.320	48.803	71.194	54.841	20.333	21.563	Cont.	Cont.

Note: In FY 2003 this program element was budgeted for in Budget Activity 7. Beginning in FY 2004, this program element has been moved into Budget Activity 3.

A. Mission Description and Budget Item Justification:

This program element conducts rapid prototyping and Advanced Technology Demonstrations. It provides a means for demonstrating and evaluating emerging/advanced technologies in as realistic an operational environment as possible by Special Operations Forces users. Evaluation results are included in a transition package which assists in the initiation of or insertion into an acquisition program. The program element also addresses projects that are a result of unique joint, special mission, or area-specific needs for which a few-of-a-kind prototypes must be developed on a rapid response basis, or are of sufficient time sensitivity to accelerate the prototyping effort of a normal acquisition program in any phase.

B. Program Change Summary:

	<u>FY03</u>	<u>FY04</u>	<u>FY05</u>
Previous President's Budget	79.550	67.017	48.925
President's Budget	80.719	105.320	48.803
Total Adjustments	1.169	38.303	-0.122
Congressional Program Reductions		-1.167	
Congressional Rescissions			
Congressional Increases		42.925	
Reprogrammings	1.169	-0.945	-0.122
SBIR		-2.510	

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<p>Funding:</p> <p>FY03</p> <ul style="list-style-type: none"> - Reprogrammed additional funds into the Gunship Advanced Concept Technology Demonstration (ACTD). <p>FY04</p> <ul style="list-style-type: none"> - Reflects \$42.925 million for Congressionally added programs as follows: <ul style="list-style-type: none"> - Rotary Wing Unmanned Aerial Vehicle (\$15.300) - Affordable Access to Night Vision (\$1.700) - Dual Band Universal Night Sight (\$1.700) - Light Reconnaissance Vehicle (\$2.400) - SOF Unmanned Vehicle Technology Integration (\$2.800) - Special All Terrain Vehicle (\$2.125) - Advanced Target ID for AC-130U Gunships (\$3.850) - Dominant Vision (\$4.800) - Naval Special Warfare Craft (\$3.000) - Synthetic Aperture Radar (Millimeter FLIR) (\$4.250) - SOCOM Multipurpose Antenna, X-Band (SMAX) (\$1.000) - Reprogrammings to Advanced Seal Delivery System (-\$1.000) and into the Gunship ACTD (\$.055) resulted in a net decrease of \$.945. <p>FY05</p> <p>Decrease of \$.122 million is based on current inflation factors.</p> <p>Schedule: None.</p> <p>Technical: None.</p>		

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Cost (\$ in millions)	FY03	FY04	FY05	FY06	FY07	FY08	FY09
Special Operations Special Technology	80.719	105.320	48.803	71.194	54.841	20.333	21.563
RDT&E Articles Quantity							

Note: In FY 2003, this program element was budgeted for in Budget Activity 7. In FY 2004, this program element was moved into Budget Activity 3.

A. Mission Description and Budget Item Justification: This project conducts rapid prototyping and Advanced Technology Demonstrations (ATDs). It provides a means for demonstrating and evaluating the utility of emerging/advanced technologies in as realistic an operational environment as possible by Special Operations Forces (SOF) users. This project integrates efforts with each other and conducts technology demonstrations in conjunction with joint experiments and other assessment events. Evaluation results are included in a transition package, which assists in the initiation of or insertion into an acquisition program. The project also addresses unique joint, special mission, or area-specific needs for which a few-of-a-kind prototypes must be developed on a rapid response basis, or are of sufficient time sensitivity to accelerate the prototyping effort of a normal acquisition program in any phase. Efforts include:

- SOF Command, Control, Communications, Computers, and Intelligence (C4I) ATDs. Exploit emerging technologies to conduct ATDs that provide SOF with a robust C4I capability to ensure uninterrupted information exchange, influence situations to support mission accomplishment, and reduce an adversary's ability to use information. Exploit emerging technologies to conduct ATDs that provide SOF with increased sensory performance. Exploit emerging technologies to locate and track targets or items of interest. Exploit emerging technologies to produce new and improved capabilities in information operations and psychological operations.
- SOF Mobility ATDs. Exploit emerging technologies to conduct ATDs that provide SOF with survivable mobility capabilities in high threat areas and with enhanced situational awareness. Exploit emerging technologies to conduct ATDs that provide SOF mobility assets with a reduction in logistic support requirements. Exploit emerging technologies to rapidly deploy and extract SOF personnel and craft. Exploit technologies to allow reconnaissance and conduct direct action in high threat areas using unmanned systems. Exploit technologies to reduce cost or enhance the performance of existing SOF platforms.
- SOF Weapons ATDs. Exploit emerging technologies to conduct ATDs that provide SOF with multi-role/multi-purpose weapons and demolitions with a broader range of potential effects and increased accuracy. Demonstrate capabilities of smart munitions and fire-and-forget capability. Exploit technologies to increase standoff from threat weapons systems. Decrease cost and logistic support requirements for SOF weapons systems.

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- SOF Sustainment ATDs. Exploit emerging technologies to conduct ATDs that provide SOF with increased survivability and performance. Exploit emerging technologies to counter the threat of electro-optical devices and devices that detect human presence, and to enhance individual operator capabilities.
- Technology Exploitation Initiative. Exploit emerging technologies to meet critical SOF requirements and encourage industry and government lab participation in identifying enhancements to SOF in critical areas.
- Advanced Tactical Laser (ATL) Advanced Concept Technology Demonstration (ACTD). The ATL ACTD was started in FY 02 through funding provided by DUSD (AS&C) and the Joint Non-Lethal Weapons Directorate. The intent of the ATL ACTD is to evaluate the military utility of a tactical directed energy weapon on the battlefield to provide direct support to the warfighter. A directed energy weapon has an inherent performance capability (i.e., extremely precise covert strike, selectable effects and lethality, multi-axis engagement) that has the potential to enhance the effectiveness of SOF operators. The ATL ACTD will develop and employ a modular, high-energy laser weapon system on a C-130 platform, capable of conducting ultra-precision strike engagements to enhance mission accomplishment of the warfighter and conduct a military utility assessment of this weapon system. The steps toward assessing the military utility of a high-energy laser weapon are:
 - a. Demonstrate weaponization of the sealed-exhaust Chemical Oxygen Iodine Laser in a modular system, capable of employment on a C-130.
 - b. Demonstrate the ability to acquire and engage tactical targets in an air-to-ground system test.
 - c. Utilize joint/service exercises to the fullest extent possible, focusing on matching the objectives of the ACTD with those of the desired exercises and demonstrations.

At the completion of the ACTD, leave behind one fully-operational laser system consisting of the laser and beam director, surveillance and acquisition sensors to support employment of the laser system, software, an operator workstation and portable ground support equipment. The system will include documentation required to operate and maintain the ATL system.
- Psychological Operations (PSYOP) “Global Reach” Advanced Concept Technology Demonstration (ACTD). Design, fabricate and demonstrate military utility of space based and advanced global reach broadcasts.
- PSYOP Modernization. This initiative will explore emergent technologies available in the marketplace to modernize the PSYOP Broadcast System (POBS) and the PSYOP Print System (PPS).

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Additionally, the project executes the following efforts added by Congress:

- Rotary Wing Unmanned Aerial Vehicle. Enhance intelligence gathering and dissemination capabilities for urban and complex terrain environments.
- Robot Reconnaissance & Surveillance. Evaluate emerging ground robotic platforms and payloads for special operations utility.
- Foreign Language Translator. Develop, demonstrate, and evaluate advanced hand-held voice-response translation device with on-board high-speed processing and speech algorithms.
- Adaptive Deployable Sensor Suite. Fabricate and evaluate network-based sensors and sensor architectures.
- Affordable Access to Night Vision Equipment. Provide calibration, standardization and characterization of night vision capabilities to the SOF Community.
- Dual Band Universal Night Sight (DUNS). Demonstrate integrated image and long-wave infrared fused system within the same aperture.
- Light Reconnaissance Vehicle. Develop a prototype manned vehicle for internal transport in the CV-22.
- SOF Unmanned Vehicle Technology Integration. Support unmanned vehicle development and integration efforts at the Prototype Maintenance Facility supporting SOTD and SOST projects.
- Special All Terrain Vehicle. Obtain and modify commercial personal mobility vehicles that incorporate commercially available diesel engines.
- Advanced Target Identification. Explore vibro electronic signature target analysis and passive acoustic reflective device technologies for AC-130U Gunship target acquisition capabilities.

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- **Dominant Vision.** Explore advanced situational awareness and fusion technologies for enhancement of various platforms' ability to navigate and identify targets through adverse weather and obscured visual situations.
- **Naval Special Warfare Craft.** Explore technologies to support future combatant craft development.
- **Synthetic Aperture Radar Millimeter FLIR.** Provide a ground map plan position indicator view that can be changed to a high resolution image using synthetic aperture radar techniques.
- **SOCOM Multipurpose Antenna, X-Band (SMAX).** Provide a low profile, hybrid steered antenna for easy mounting on a C-130 or CV-22.

B. Accomplishments/Planned Program

	FY03	FY04	FY05
SOF Command, Control, Communications, Computers, and Intelligence (C4I) ATDs	2.192	1.789	2.450
RDT&E Article Quantity			

FY03 Continued development and evaluation of FY02 efforts. Continued development of Night Vision Electro-Optic Enhancements, Low Probability of Intercept/Detection (LPI/D) Imagery Forwarding, Tactical Personal Computer, Antenna Enhancements, Communications for Robotics, Burst Communications and LPD Antenna, and Global Broadcasting System/Joint Broadcasting System. Initiated Tactical Systems Specific Emitter Identification.

FY04 Continue the development and evaluation of FY03 efforts. Initiate Night Vision Compatible Head Mounted Display, Enhanced Tactical Antenna Suite, Reconnaissance Technologies, and Software Definable Receiver Size Reduction.

FY05 Continue development and evaluation of FY04 efforts. Continue to exploit emerging technologies to conduct Advanced Technology Demonstrations (ATD) that provide SOF with a robust C4I capability to ensure uninterrupted information exchange, influence situations to support mission accomplishment, and reduce an adversary's ability to use information. Continue to exploit emerging technologies to conduct ATDs that provide SOF with increased sensory performance. Continue to exploit emerging technologies to locate and track targets or items of interest.

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		FY03	FY04	FY05
SOF Mobility ATDs		1.180	2.260	3.121
RDT&E Article Quantity				
<p>FY03 Continued SDV Airdrop and SOF Robotics. Initiated Conformal Load Bearing Antenna. Completed Vehicle Camouflage system.</p> <p>FY04 Continue development and evaluation of FY03 efforts.</p> <p>FY05 Continue development and evaluation of FY04 efforts. Exploit emerging technologies to conduct ATDs that provide SOF mobility assets with a reduction in logistic support requirements. Exploit emerging technologies to rapidly deploy and extract SOF personnel and craft. Exploit technologies to allow reconnaissance and conduct direct action in high threat areas using unmanned systems. Exploit technologies to reduce cost or enhance the performance of existing SOF platforms.</p>				
		FY03	FY04	FY05
SOF Weapons ATDs		.938	2.225	3.169
RDT&E Article Quantity				
<p>FY03 Continued development and evaluation of FY02 efforts. Continued development of Anti-Materiel Payload Rifle, Underwater Adhesives, and Remote Operated Small Arms Mount.</p> <p>FY04 Continue development and evaluation of FY03 efforts. Initiate the NSW Combatant Craft Weapons, Enhanced Small Arms Technologies, and SOF Combat Weapon Shot Counter.</p> <p>FY05 Continue development and evaluation of FY04 efforts. Continue to exploit emerging technologies to conduct ATDs that provide SOF with multi-role/multi-purpose weapons and demolitions with a broader range of potential effects and increased accuracy. Exploit technologies to increase standoff from threat weapons systems. Decrease cost and logistic support requirements for SOF weapons systems. Planned efforts include Enhanced Signature Suppression for lightweight machine guns and Enhanced Performance for long range ammunition.</p>				
		FY03	FY04	FY05
SOF Sustainment ATDs		.757	2.000	1.468
RDT&E Article Quantity				
<p>FY03 Continued development and evaluation of FY02 efforts. Continued Intrusion Sensor System, Military Free Fall Advanced Navigation System and Battery Recharging System. Completed Equipment Waterproofing.</p> <p>FY04 Continue development and evaluation of FY03 efforts. Initiate development of Directional Axial Magnetic Propulsion System.</p> <p>FY05 Continue development and evaluation of FY04 efforts. Continue to exploit emerging technologies to conduct ATD's that provide SOF</p>				

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with increased survivability, performance and countermeasures technologies. Continue evaluation of alternative power sources. Planned efforts include the All Terrain and All Environment Kit to Negotiate Obstacles.				
		FY03	FY04	FY05
Technology Exploitation Initiative (TEI)		.639	.600	.850
RDT&E Article Quantity				
<p>FY03 Exploited emerging technologies to meet critical SOF requirements and encourage industry and government lab participation in identifying enhancements to SOF in critical areas. Initiated Directional Axial Magnetic Propulsion System. Completed SOF Visualization to develop and demonstrate C3 software tools, NSW Combatant Craft Weapon exploitation initiative, and Polymer Ammunition.</p> <p>FY04 Continue to exploit emerging technology to meet critical SOF requirements and encourage industry and government lab participation in identifying enhancements to SOF in critical areas.</p> <p>FY05 Continue to exploit emerging technology to meet critical SOF requirements and encourage industry and government lab participation in identifying enhancements to SOF in critical areas.</p>				
		FY03	FY04	FY05
Advanced Tactical Laser (ATL) Advanced Concepts Technology Demonstration (ACTD)		46.924	51.507	28.649
RDT&E Article Quantity				
<p>FY03 Continued the development of the ATL ACTD system. Completed the Systems Engineering Management Plan and Integrated Technical and Management Plan. The System Baseline Review established the technical baseline for the ATL system, allowing us to allocate performance requirements and system integration constraints to the various ATL ACTD system components. Began design of the system hardware for the Laser device (e.g, fluid supply system, resonator cavity and optics, and energy flow path elements), surveillance and beam control (e.g., acquisition system, laser beam turret, beam control mirrors and sensors and software), and the hardware/software for the operator workstation. Conducted system/subsystem design experiments in the laser, optical control, aircraft integration and battle management control system. In the fourth quarter, completed most subsystem Preliminary Design Reviews (PDR) of the ATL hardware and software. The PDR is an intermediate review to verify that the subsystem components and requirements allocations will allow the ATL system to continue to meet program objectives. Extensive work was accomplished to analyze and assess the ATL system lethality vs. the design reference mission targets.</p> <p>FY04 Complete the design and begin the build-up of the ATL ACTD system. Continue system/subsystem design experimentation and analysis. Accomplish the subsystem and system Critical Design Reviews, the final reviews of the system component designs before assembly</p>				

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<p>and check out. Procure long-lead components and begin acquisition and delivery of ATL ACTD system hardware and software. Begin the Military Utility Assessment using ATL simulations and/or component hardware testing in conjunction with military exercises.</p> <p>FY05 Continue to procure hardware and complete initial software development. Begin testing the ATL ACTD subsystems and continue the Military Utility Assessment. Begin component integration (e.g., optics module and laser generation module), component testing, and subsystem integration and testing. Begin modification of the ATL ACTD host aircraft. Begin ground test of the Integrated Battle Management and Optical Control Systems. Begin ground assembly, integration and test of the high-power flight test laser module. Complete modifications of the integration and test facilities.</p>				
		FY03	FY04	FY05
Psychological Operations (PSYOP) "Global Reach" ACTD			2.850	2.935
RDT&E Article Quantity				
<p>FY04 Exploit mature and evolving technologies to address specific PSYOP deficiencies and provide the Combatant Commander with organic rapid-response PSYOP assets to meet evolving mission needs. The ACTD will transform current PSYOP capabilities in two major areas: 1) extension of PSYOP broadcast range (AM/FM/TV/digital) in a standoff mode to reach target audiences deep in hostile territory or denied areas, and 2) automation (software & hardware) of the PSYOP planning and analysis process. Specifically, the ACTD will manage the design, engineering and technical integration of multiple technologies for both UAV payload and a PSYOP Planning and Analysis Tool.</p> <p>FY05 Continue management of the design, engineering and technical integration of multiple technologies culminating with a military utility assessment for both a UAV payload and a PSYOP Planning and Analysis Tool. In addition, focus on additional technologies to reach target audience through various scatterable media. Multiple solutions may include hardened and air-droppable satellite radios, miniaturized AM/FM broadcast transmitters, miniaturized loudspeakers, and media such as Internet broadcast and cellular telephones.</p>				
		FY03	FY04	FY05
PSYOP Modernization				4.891
RDT&E Article Quantity				
<p>FY05 Explore emergent technologies to extend the reach of USSOCOM PSYOP products and their distribution channels. Such technologies may include Long Range Broadcast Systems, Scatterable Media, Telephone and Internet Broadcast Media, space-based dissemination systems, and other technologies which will give USSOCOM a stand-off capability to deliver multi-media PSYOP products to target audiences in denied areas or over long range distances (over 850 miles) in near-real-time.</p>				

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		FY03	FY04	FY05
Classified		.661	.600	1.270
RDT&E Article Quantity				
FY03 Details provided under separate cover. FY04 Details provided under separate cover. FY05 Details provided under separate cover.				
		FY03	FY04	FY05
Rotary Wing Unmanned Aerial Vehicle (UAV)		20.985	14.788	
RDT&E Article Quantity		4		
FY03 This initiative was a Congressional Plus-Up. Fabricated four additional air vehicles (two Maverick and two Hummingbird) payloads and Miniature Ground Control Stations. Conducted maturation flight tests and participated in Joint Exercises. FY04 Continue to identify and develop SOF-unique capabilities on the baseline aircraft developing CONOPS and payloads that address critical needs of the SOF warfighter.				
		FY03	FY04	FY05
Robot Reconnaissance & Surveillance		.951		
RDT&E Article Quantity				
FY03 This initiative was a Congressional Plus-Up. Evaluated emerging ground robotic platforms and payloads for special operations utility.				
		FY03	FY04	FY05
Foreign Language Translator		.950		
RDT&E Article Quantity				
FY03 This initiative was a Congressional Plus-Up. Developed, demonstrated, and evaluated advanced hand-held voice-response translation device with on-board high-speed processing and speech algorithms.				

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		FY03	FY04	FY05
Adaptive Deployable Sensor Suite		4.542		
RDT&E Article Quantity				
FY03 This initiative was a Congressional Plus-Up. Fabricated and evaluated network-based sensors and sensor architectures.				
		FY03	FY04	FY05
Dominant Vision			4.641	
RDT&E Article Quantity				
FY04 This initiative was a Congressional Plus-up. Development effort will explore Advanced Situational Awareness and Sensor Fusion Technologies for enhancement of AFSOC platform's ability to navigate and identify targets through adverse weather and obscured visual situation. Analysis of Multi-spectral and Hyper-spectral techniques will be evaluated.				
		FY03	FY04	FY05
Affordable Access to Night Vision (NV) Equipment			1.642	
RDT&E Article Quantity				
FY04 This initiative was a Congressional Plus-up. Support a pilot project that will provide calibration, standardization, and characterization of NV capabilities for the SOF community.				
		FY03	FY04	FY05
Advanced Target ID for AC-130U Gunship			3.721	
RDT&E Article Quantity				
FY04 This initiative was a Congressional Plus-up. Development effort will continue to explore Vibro Electronic Signature Target Analysis (VESTA) and Passive Acoustic Reflective Device (PARAD) technologies for enhancement of the AC-130U Gunship target acquisition capabilities. Enhancements to the Gunships' ability to align the weapons at night and over water are also being evaluated.				

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		FY03	FY04	FY05
Dual Band Universal Night Sight (DUNS)			1.642	
RDT&E Article Quantity				
FY04 This initiative was a Congressional Plus-up. Technology will demonstrate an integrated image intensified and long-wave infrared fused system within the same aperture.				
		FY03	FY04	FY05
Synthetic Aperture Radar (Millimeter FLIR)			4.108	
RDT&E Article Quantity				
FY04 This initiative was a Congressional Plus-up. The Synthetic Aperture Radar provides a ground map plan position indicator view, which can be changed to a high resolution image using synthetic aperture radar techniques that will allow for unassisted instrument landings and target classification capabilities. Technology will demonstrate and integrate package on a light twin civil aircraft suitable for use on a C-130 or rotary wing platform.				
		FY03	FY04	FY05
Light Reconnaissance Vehicle			2.319	
RDT&E Article Quantity				
FY04 This initiative was a Congressional Plus-up. Development of a lightweight, manned vehicle for SOF.				
		FY03	FY04	FY05
SOCOM Multipurpose Antenna, X-Band (SMAX)			.969	
RDT&E Article Quantity				
FY04 This initiative was a Congressional Plus-up. The SMAX is an innovative antenna derived from the Navy's Cooperative Engagement Capability design. It is a hybrid steered antenna that provides a low profile for easy mounting on a C-130 or CV-22 along with light civil aircraft and rotary wing assets.				

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		FY03	FY04	FY05
SOF Unmanned Vehicle Technology Integration			2.707	
RDT&E Article Quantity				
FY04 This initiative was a Congressional Plus-up. Support unmanned vehicle development and integration efforts at the Prototype Maintenance Facility supporting Special Operations Technology Development and Special Operations Advanced Technology Development projects.				
		FY03	FY04	FY05
Special All Terrain Vehicle			2.053	
RDT&E Article Quantity				
FY04 This initiative was a Congressional Plus-up. Technology development effort will obtain and modify commercial personal mobility vehicles to produce diesel fueled militarized prototypes for initial evaluation by SOCOM.				
		FY03	FY04	FY05
Naval Special Warfare Craft			2.899	
RDT&E Article Quantity				
FY04 This initiative was a Congressional Plus-up. Explore technologies to support future combatant craft development.				
C. Other Program Funding Summary: None.				
D. Acquisition Strategy. N/A.				