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RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)								DATE February 2000	
APPROPRIATION/BUDGET ACTIVITY RDT&E, Defense Wide/BA 3							R-1 ITEM NOMENCLATURE SO/LIC Advanced Development PE 0603121D8Z		
<i>COST(In Millions)</i>	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	Cost to Complete	Total Cost
Total Program Element (PE) Cost	4.505	0.000	8.622	8.750	9.816	9.963	10.241	Continuing	Continuing
Explosive Ordnance Disposal/Low Intensity Conflict/P206	0.000	0.000	7.377	8.750	9.816	9.963	10.241	Continuing	Continuing
Special Operations/Low Intensity Conflict (SO/LIC)/P205	0.000	0.000	1.245	0.000	0.000	0.000	0.000	Continuing	Continuing
Alternatives to Antipersonnel Landmines/P121	4.505	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing

(U) A. Mission Description and Budget Item Justification

(U) BRIEF DESCRIPTION OF ELEMENT

(U) P121, Alternatives to Anti-personnel Landmines (APL). This project develops, tests, and evaluates area denial systems to replace anti-personnel landmines (APL). APL alternatives include surveillance systems, command and control systems, and overwatch fires which were evaluated and developed in parallel. Nonlethal technologies will also be evaluated for applicability. During the first phase, various concepts will be defined in detail and examined with emphasis placed on leveraging existing programs. A process to select viable alternatives for further development was conducted using modeling and simulation along with advanced warfighting experiments. The selected approaches will enter prototype development. Further selection of viable concepts will enter the engineering and manufacturing development phase. This project supported the non-self-destructing APL alternative program, which is being funded (PE 0604808A) and executed by the US Army. Funding for this project ended in FY 1999.

(U) P205, Special Operations/Low-Intensity Conflict (SO/LIC) Analytical Support. The SO/LIC Analytical Support project provides specialized research and analytical support for the Assistant Secretary of Defense for Special Operations and Low- Intensity Conflict (ASD (SO/LIC). Projects address a broad spectrum of technical, acquisition, and policy issues relating to special operations, counter- and anti-terrorism, peacekeeping, psychological operations, counterinsurgency, unconventional warfare, and contingency operations. The project supports and is integrated into overall DoD efforts to develop options for dealing effectively with a wide range of military responsibilities in military operations other than war. This project provides a vehicle to initiate analysis required to support acquisition documentation and conceptual policy issues regarding roles and missions of SOF in the changing world environment. Analysis may also be used to improve OASD(SO/LIC)'s congressionally mandated oversight function of special operations and low-intensity conflict.

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(U) P206, Explosive Ordnance Disposal/Low-Intensity Conflict (EOD/LIC). The EOD/LIC project is a rapid prototyping effort to provide technology and equipment to military operators who are confronted with explosive threats. Tasks focus on detection, countermeasures, and neutralization of explosive threats. Requirements submitted by the Special Operations and Joint Service EOD communities and other LIC-oriented military users are prioritized by the OSD EOD/LIC Coordination Group.

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Explosive Ordnance Disposal/Low Intensity Conflict/P206	0	0	7.377	8.750	9.816	9.963	10.241	Continuing	Continuing

(U) **Project Number and Title: P206 Explosive Ordnance Disposal/Low Intensity Conflict**

(U) **PROGRAM ACCOMPLISHMENTS AND PLANS**

(U) **FY2001 Plans:**

(U) Complete development of an improved vehicle access/disruption device. Complete development of an EOD laser ordnance neutralization system. Complete development of SOF/EOD tactical decision aids. Complete development of advanced EOD explosive storage system. Complete development of an integrated explosive device training system. Complete development of a remote EOD mini-reconnaissance vehicle. Complete development of a SOF/EOD personal digital assistant. Complete development of a thermite containment system. Complete development of SOC-R ballistic protection. (\$1.106 Million)

(U)Continue development of the RAMS/AFS interface. Continue development of an autonomous search/hydrographic system upgrade. Continue development of an RF-controlled digital x-ray imaging system. Continue development of a single sided x-ray. Continue development of x-ray interpreter hardware/software. Continue development of an EOD communications headset. Continue development of a chemical/biological/ nuclear detector for EOD robots. Continue development of chemical leak seal. Continue development of a magneto-inductive firing device. Continue development of a portable blast chamber. Continue development of a high-resolution miniature color diver display system. Continue development of a hand-held explosive vapor detector. Continue development of an incident site mapping and backpack communications capability. Continue development of an integrated remotely operated underwater vehicle, with hull navigation and a limpet mine detection sonar. Continue development of an advanced remote underwater search vehicle system. Continue development of a tactical global broadcasting system receiver. (\$ 3.689 Million)

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(U)Start development of an area survey imaging sonar. Start development of an advanced diver/ROV sensor system. Start development of an EOD remote detection and access to buried ordnance system. Start development of an integrated sea ordnance training system. Start development of an EOD unmanned aerial vehicle (UAV). Start development of an advanced EOD/SOF chemical/biological weapons incident response system. Start development of an advanced SOF/EOD UXO/IED sensor detection system. Start development of a long range, miniature remote firing system. Start development of EOD/SOF ballistic protection system. (\$2.582 Million)

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Special Operations/Low Intensity Conflict (SO/LIC)/P205	0.000	0	1.245	0.000	0.000	0.000	0.000	Continuing	Continuing

(U) **Project Number and Title: P205 Special Operations/Low Intensity Conflict (SO/LIC)**

(U) **PROGRAM ACCOMPLISHMENTS AND PLANS**

(U) **FY2001 Plans:**

(U) The FY 2001 program will be finalized in August 2000, ensuring that study projects are timely and responsive to the requirements of DoD policy makers.

(\$ 1.245 Million)

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Alternatives to Antipersonnel Landmines/P121	4.505	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing

(U) **Project Number and Title: P121 Alternatives to Antipersonnel Landmines**

(U) **PROGRAM ACCOMPLISHMENTS AND PLANS**

(U) **FY1999 Accomplishments:**

(U) During FY 1999 development contracts were awarded, hardware for the prototype assessment test (PAT) phase was purchased, and the PAT plan and operations order were finalized.

(\$ 4.505 Million)

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(U) B. <u>Program Change Summary</u>	<u>FY1999</u>	<u>FY2000</u>	<u>FY2001</u>	<u>Total Cost</u>
Previous President's Budget	4.687	0.000	0.000	Continuing
Appropriated Value	0.000	0.000	0.000	Continuing
Adjustments to Appropriated Value				
a. Congressionally Directed Undistributed Reduction	0.000	0.000	0.000	
b. Rescission/Below-threshold Reprogramming, Inflation Adjustment	(.182)	0.000	0.000	
c. Other	0.000	0.000	8.622	
Current President's Budget	4.505	0.000	8.622	Continuing

Change Summary Explanation:

(U) **Funding:** Beginning in FY 2001, PE 0603121D8Z was renamed to SO/LIC Advanced Development. FY 2001-2005 funding for this PE was transferred from PE 0603122D8Z.

(U) **Schedule:** N/A

(U) **Technical:**

(U) **C. OTHER PROGRAM FUNDING SUMMARY COST:** N/A

(U) **D. ACQUISITION STRATEGY:** N/A

(U) **E. SCHEDULE PROFILE:** N/A

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