

Fiscal Year 2010



Attack the Network – Defeat the Device – Train the Force

May 2009

JOINT IMPROVISED EXPLOSIVE DEVICE DEFEAT FUND

JUSTIFICATION OF FISCAL YEAR (FY) 2010 BUDGET ESTIMATES
JOINT IMPROVISED EXPLOSIVE DEVICE DEFEAT FUND

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Program Assessment

Joint Improvised Explosive Device Defeat Organization (JIEDDO)

JIEDDO focuses (leads, advocates, and coordinates) all Department of Defense (DoD) efforts in support of Combatant Commanders and their respective Joint Task Forces to defeat Improvised Explosive Devices (IEDs) as weapons of strategic influence, striking a balance of focused information fusion, technology, and training. This FY 2010 budget estimate is formulated to continue JIEDDO's Counter-IED (C-IED) efforts to defeat this global, asymmetric threat.

The Threat

The IED has evolved into the weapon of choice for insurgent, terrorist, and even criminal networks throughout the world. Easy to produce, inexpensive and effective, IEDs remain a persistent global threat to Joint and Coalition Forces with nearly 1,400 monthly IED events worldwide. The enemy has evolved and adapted the use of IEDs in response to effective counter-measures, thus driving an escalating war of technologies. As Joint and Coalition Forces respond with the most current C-IED measures, the enemy develops a myriad of new threats, ranging from the rudimentary to highly sophisticated; leveraging unconstrained resources and fast-paced technology. Consequently, the IED will be a pervasive, inseparable component of the future asymmetric threat posed by insurgent, terrorist, and criminal networks. JIEDDO continues to lead our Nation's efforts to defeat the complex, evolving, and enduring threat of IEDs as weapons of strategic influence.

The Response

The asymmetric, global IED threat requires a multi-faceted, short- and long-term response. JIEDDO was established as a joint entity and a jointly manned activity of DoD. This organizational structure facilitates collaboration and mission execution across DoD. JIEDDO is organized into four lines of operations (LOOs), of which three directly carry out its mission: Attack the Network, Defeat the Device, and Train the Force. JIEDDO develops the means to successfully disrupt the networks that fund, develop, and employ IEDs; and provides defenses at the point of attack. Additionally, JIEDDO enables the training of warfighters in the use of new equipment and tactics, techniques, and procedures (TTPs) against emerging IED threats. JIEDDO executes a Science and Technology (S&T) and Development portfolio to anticipate future medium- and long-term threats and associated technology capability gaps. The Staff and Infrastructure LOO provides the support that the mission-oriented LOOs require.

JIEDDO brings unprecedented synergy to the C-IED fight through its four critical mission areas:

- **Strategic Planning:** JIEDDO coordinates DoD's C-IED efforts and resources by integrating the immediate needs of Combatant Commands into the strategic vision to defeat IEDs as the asymmetric weapon of choice. JIEDDO articulates DoD's C-IED goals, priorities, and roles; and provides situational awareness through the development of the IED-focused Joint Common Operational Picture.
- **Rapid Acquisition:** The Joint IED Defeat Capability Acquisition and Management Process (JCAAMP) is JIEDDO's model for aggressively seeking, acquiring, and assessing potential solutions to C-IED capability gaps; and placing approved initiatives in the hands of the warfighter. This process enables JIEDDO to rapidly acquire systems and develop capabilities to meet urgent warfighter needs,

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normally within four to twenty-four months; transitioning to the Services those initiatives ultimately determined to be Service-related enduring C-IED capabilities.

- **Operations and Information Fusion:** By leveraging existing information, technology, and forensic analysis operations data, JIEDDO is able to identify and provide real-time, tactical information to the warfighter. JIEDDO also bridges current and future capability gaps by researching and developing innovative C-IED information fusion solutions.

- **Operations and Training Support:** JIEDDO and its Joint Center of Excellence (JCOE) provide critical training support to ensure that deploying warfighters are trained against the most current threat using proven TTPs and that they remain proficient in the use of the newest technologies and methods.

Performance

Since its inception, JIEDDO has achieved success in its mission to defeat IEDs as weapons of strategic influence by reducing the number of Joint and Coalition Force casualties and disrupting insurgent networks.

Key accomplishments include:

- Decreasing the effectiveness of IED attacks (in June 2003, the enemy generated more than one casualty with each emplaced IED, and as of February 2009, it took over seven emplaced IEDs to cause one casualty);
- Developing and delivering capabilities to the warfighter in months (four to twenty-four) versus years as associated with conventional defense acquisition processes supporting DoD's force modernization program;
- Providing real-time, tactical support to warfighters through the Counter-IED Operations Integration Center (COIC); and
- Providing C-IED training support to deploying troops that incorporates the use of surrogates and real-life simulations.

The funds requested for FY 2010 are needed to sustain JIEDDO's Science and Technology (S&T) and Development efforts, as well as its rapid acquisition capability, so that C-IED solutions can be delivered to the warfighter to close emerging capability gaps and lessen the effect of IEDs as weapons of strategic influence. JIEDDO leads DoD's efforts to identify, acquire, and develop capabilities to defeat IEDs and the networks that emplace them. The FY 2010 JIEDDF estimate is formulated to maintain C-IED capability readiness in support of existing and emerging overseas contingency operations.

Fiscal Year 2010 Base Budget Estimate



Attack the Network – Defeat the Device – Train the Force

May 2009

JOINT IMPROVISED EXPLOSIVE DEVICE DEFEAT FUND

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JOINT IMPROVISED EXPLOSIVE DEVICE DEFEAT FUND

The Joint Improvised Explosive Device Defeat Organization (JIEDDO) focuses (leads, advocates, and coordinates) all Department of Defense (DoD) efforts in support of Combatant Commanders and their respective Joint Task Forces to defeat improvised explosive devices (IEDs) as weapons of strategic influence, striking a balance of focused information fusion, technology, and training. The IED has evolved into the weapon of choice for insurgent, terrorist, and even criminal networks throughout the world. The use of these relatively inexpensive weapons has grown, as has the enemy's technical sophistication. Therefore, the Department requests for expenses, not otherwise provided, necessary for the FY 2010 Joint Improvised Device Defeat Fund (JIEDDF) in the amount of \$564,850,000 to become available on October 1, 2009 and to remain available until September 30, 2012. The FY 2010 Base Budget request will support JIEDDO's Counter-IED (C-IED) activities, which require adequate fiscal and management flexibility to develop and field materiel, non-materiel, and training solutions to defeat IEDs as weapons of strategic influence.

JUSTIFICATION OF FISCAL YEAR (FY) 2010 BUDGET ESTIMATES
JOINT IMPROVISED EXPLOSIVE DEVICE DEFEAT FUND

Fiscal Year (FY) 2010 Base Budget Estimate

	(In Thousands of Dollars)
FY 2010 Estimate	\$564,850
FY 2009 Budget	\$0
FY 2008 Budget	\$120,000

Part I – PURPOSE AND SCOPE

Defeating the strategic influence of IEDs requires a comprehensive approach that aggressively disrupts the networks that fund, support, and emplace IEDs; and defends at the point of attack. A multi-faceted strategy, balancing materiel and non-materiel initiatives, focused information fusion, and training will ultimately decrease the strategic influence of IEDs. JIEDDO executes this strategy by leading, advocating, and coordinating all DoD C-IED efforts. To that end, JIEDDO operates along four Lines of Operation (LOOs) to carry out its mission: Attack the Network, Defeat the Device, Train the Force, and Staff and Infrastructure. JIEDDO is established as a joint entity and is a jointly manned activity of DoD. This structure facilitates collaboration and mission execution across DoD.

PART II -- JUSTIFICATION OF FUNDS REQUIRED

The funds requested in the FY 2010 Base Budget are needed to sustain JIEDDO's unique ability to find and procure C-IED solutions to existing and future capability gaps in order to defeat IEDs as weapons of strategic influence. JIEDDO leads DoD's efforts to identify, acquire and develop capabilities to defeat IEDs and the networks that emplace them.

The JIEDDO FY 2010 Base Budget submission provides the following:

- IEDs have evolved and adapted in response to effective counter-measures, driving an escalating war of technologies. As Joint and Coalition Forces have responded with the most current C-IED measures, the enemy develops even more sophisticated IEDs at a faster pace. This budget request reflects a Science and Technology (S&T) and Development portfolio that anticipates, identifies, and mitigates future iterations of the IED threat.
- JIEDDO's C-IED Operations Integration Center (COIC) provides real-time, fused, C-IED-related information support to deployed warfighters, enhancing their ability to successfully attack IED networks. The budget request is intended to support the basic requirements of the COIC to ensure that its core C-IED capabilities are ready for emerging overseas contingency operations wherever they may arise.

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- JIEDD Test Board (JTB) ensures that JIEDDO-funded C-IED initiatives are subjected to sound systems engineering principles; and are evaluated in accordance with approved test and evaluation protocols and policies, and by appropriate technical disciplines, to allow DoD leadership to accurately evaluate the performance of new technologies. The budget request is intended to support the most essential JTB test and evaluation capabilities.
- JIEDDO's Joint Center of Excellence (JCOE) is a unique, agile organization comprised of subordinate centers for each military Service. JCOE enables the insertion of tactical realism into unit C-IED training, drawing insights from COIC, JIEDDO's Operations Research and Systems Analysis (ORSA) cell, and forward-deployed teams. As a result of JCOE's efforts, warfighters are able to receive extensive training prior to deployment and are better prepared for the IED threats that they face in theater. The budget request provides funding for critical training support to ensure that deploying warfighters are trained against the most current threat using proven tactics, techniques, and procedures (TTPs), and that they remain proficient in the use of the newest technologies and methods.
- JIEDDO's operating model, the Joint-IED Capabilities Approval and Acquisition Management Process (JCAAMP), utilizes a portfolio approach to rapidly assess, develop, and deliver emerging technologies to warfighters while simultaneously conducting operational assessments. The budget request is intended to continue JIEDDO's unique rapid acquisition capability by enabling the recruitment and retention of a qualified and talented workforce.
- The requested funding provides for strategic planning, workforce continuity, infrastructure requirements, and technology development to support JIEDDO's enduring needs.

JUSTIFICATION OF FISCAL YEAR (FY) 2010 BUDGET ESTIMATES
JOINT IMPROVISED EXPLOSIVE DEVICE DEFEAT FUND

LINE OF OPERATION 1: ATTACK THE NETWORK

	(In Thousands of Dollars)
FY 2010 Estimate	\$203,100
FY 2009 Budget	\$0
FY 2008 Budget	\$40,000

Part I – PURPOSE AND SCOPE

The offensive portion of the IED fight, Attack the Network, is at the center of JIEDDO's future C-IED strategy. In FY 2010, JIEDDO intends to dedicate greater resources to this Line of Operation to better align its efforts with DoD's priorities and to support the warfighters' ability to conduct offensive operations against the complex, fluid, global networks of IED makers, financiers, trainers, and their supporting infrastructure. Specifically, this Base budget funding supports investments in Operations and Information Fusion Support, Science and Technology (S&T), and Development.

PART II -- JUSTIFICATION OF FUNDS REQUIRED

The FY 2010 Base Budget request supports the essential capabilities necessary to be positioned to support the COCOMs' ability to attack and disrupt the enemy's IED networks. JIEDDO supports this long-term effort by fusing existing information, and developing and integrating new tools for modeling and simulation. The FY 2010 Base Budget submission will support COIC's core C-IED information fusion activities to ensure this capability is ready for overseas contingency operations as they arise. It also supports the most critical S&T and Development initiatives focused on mitigating medium- and long-term threats posed by IED networks.

JUSTIFICATION OF FISCAL YEAR (FY) 2010 BUDGET ESTIMATES
JOINT IMPROVISED EXPLOSIVE DEVICE DEFEAT FUND

PART III -- PROGRAM DESCRIPTIONS

Line of Operation	JIEDDO Requirements	Total
Attack the Network	Operations and Information Fusion Support	75,100,000
	Science & Technology (S&T) and Development	128,000,000
Attack the Network Total		203,100,000

- **Operations and Information Fusion Support (COIC S&I):** The COIC maintains a joint common operational and information picture of worldwide IED systems and is positioned to support COCOMs with fast, accurate, fused multi-source information, operational analysis, technical products, as well as training support, if an overseas contingency operation arises. COIC leadership, technical managers, and support staff and all facility costs, including security and equipment needed to operate the day-to-day environment, is required to maintain a minimum readiness level for current and future engagements against forces employing IEDs. This funding will also support the basic information technology and communications architecture that provides data for detailed analyses that facilitate real-time collaboration with the warfighter.

- **Science & Technology (S&T) and Development:** JIEDDO invests in S&T and Development initiatives to address threats by diminishing associated gaps. In doing so, JIEDDO increases the warfighters' ability to effectively attack IED networks. Through the maintenance of a robust S&T and Development capability, JIEDDO retains a focus on the enduring global IED threat. S&T and Development investments are intended to provide enhancements to existing technologies as well as innovative solutions to medium-and longer-term enduring IED network threats. These investments are necessary to make network-breaking advancements, and to mature technologies so that they can be transferred for development, evaluated in theater, and fielded. The funding request represents the most critical investments necessary to address persistent capability gaps in the following areas through S&T and Development initiatives:
 - **Persistent Surveillance Technologies** include methods to monitor IED network activity and emplacement in a spatial- and temporal-information scarce environment with unsanctioned actors.
 - **Detection and Prevention of Pre-Emplacement Activities** facilitate the identification, detection and analyses of indicators and observables related to pre-emplacement and emplacement activities.
 - **Pre-Emptive Use of New Technologies** develops the network-peering insights required to identify the new technologies and methods that are most likely to be adopted by IED-using networks.
 - **Social and Dynamic Network Analysis** includes technological and network-breaking activities that combine spatial, temporal, relational and cultural knowledge discovery and modeling to identify and to predict adversary trends, patterns and future courses of action.

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- **Tagging, Tracking, and Locating (TT&L)** addresses the development of analytical tools and innovative information fusion, surveillance and reconnaissance technologies to discover IED network activities by locating actors and materiel before IED emplacement.

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LINE OF OPERATION 2: DEFEAT THE DEVICE

(In Thousands of Dollars)
FY 2010 Estimate \$199,100
FY 2009 Budget \$0
FY 2008 Budget \$0

Part I – PURPOSE AND SCOPE

The protective portion of the IED fight, Defeat the Device, is centered on mitigating the impact of IEDs after they are emplaced. In FY 2010, JIEDDO intends to continue placing emphasis on detecting IEDs from greater distances, mitigating blast effects and protecting against blast injuries, and enabling troops to safely disarm or detonate IEDs before they can be activated by the enemy. JIEDDO identifies, develops, acquires, and fields technology to Combatant Commanders to find and defeat IEDs at the point of attack, thereby lowering casualties and enhancing Commanders' freedom of action.

PART II -- JUSTIFICATION OF FUNDS REQUIRED

The FY 2010 Base Budget request supports the warfighter by developing potential solutions to detect, neutralize, and mitigate the impact of IEDs at the point of attack. The FY 2010 Base Budget submission will support the activities that ensure this capability is ready for emerging overseas contingency operations including the most critical S&T and Development initiatives focused on mitigating medium- and long-term threats posed by IEDs.

PART III -- PROGRAM DESCRIPTIONS

Line of Operation	JIEDDO Requirements	Total
Defeat the Device	Science & Technology (S&T) and Development	180,120,000
	JIEDDO Test Environment	18,980,000
Defeat the Device Total		199,100,000

- **Science & Technology (S&T) and Development:** JIEDDO invests in S&T and Development initiatives to directly mitigating threats by diminishing the associated capability gaps. In doing so, JIEDDO increases the warfighters' ability to effectively defend against emplaced IEDs. Through the maintenance of a robust S&T and Development capability, JIEDDO retains a focus on the enduring global IED threat. S&T and Development investments are intended to provide enhancements to existing technologies as well as develop innovative solutions

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to medium-and longer-term enduring IED device threats. These investments are necessary to make technological advancements, and to mature research so that they can be transferred for development, evaluated in theater, and fielded. The funding request represents the most critical investments necessary to address persistent capability gaps in the following areas through S&T and Development initiatives:

- **Blasting Cap Defeat** finds tactically deployable, direct or electronic, blasting cap detonation methods.
 - **Deep Buried IED Defeat** provides the warfighter with the capability to detect buried threats, before detonation, from underneath vehicles or personnel.
 - **Command Wire Detection** includes technologies that enable the detection of long, thin wires used for command detonation of IEDs.
 - **Explosively Formed Penetrator (EFP) System Detection and Defeat** detection allows the warfighters to safely engage one of the most advanced and lethal IED types.
 - **Pressure Initiation Devices** include technologies that detect pressure actuators fabricated from lightweight metal components and buried in the path of an intended victim.
 - **Protection of Vehicles/Personnel** technologies minimize injuries to the warfighter and vehicle damage from IED detonations.
 - **Standoff Explosives Detection and Confirmation** technologies allows the warfighter to find explosives associated with the IED threat even when IEDs are not present, and once IEDs are found, to determine their composition while remaining outside of the radius of damage if detonated.
- **JIEDDO Testing Environment:** The funding requested for the JIEDDO Test Board (JTB) supports the coordination and synchronization of test and evaluation (T&E) resources to ensure that JIEDDO's C-IED materiel solutions are adequately tested and evaluated prior to being fielded. Specifically, this funding will allow for the maintenance of T&E protocols and standards as well as for the coordination of operational assessments, ensuring that DoD leadership has adequate information to make critical investment decisions.

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LINE OF OPERATION 3: TRAIN THE FORCE

	(In Thousands of Dollars)
FY 2010 Estimate	\$41,100
FY 2009 President's Budget	\$0
FY 2008 Budget	\$48,000

Part I – PURPOSE AND SCOPE

The best asset on the battlefield is a well-trained, situationally-aware Soldier, Sailor, Airman or Marine. JIEDDO supports the Services in providing individual and collective training to maintain force readiness in an intense, fluid IED environment.

PART II -- JUSTIFICATION OF FUNDS REQUIRED

The FY 2010 Base Budget request maintains JIEDDO's ongoing support for individual and collective training on IED Defeat tactics, techniques and procedures (TTPs). Through its Joint Center of Excellence (JCOE), JIEDDO sponsors C-IED training for each of the Services at all levels of the chain of command. This funding postures JIEDDO to leverage theater events and lessons learned to provide C-IED focused training that is necessary to protect Joint Forces and to enable warfighters to attack and defeat the IED threat. The Base Budget request provides funding for JCOE staff and facility costs, including equipment and surrogates, needed to fulfill day-to-day training requirements. The budget request also allows JIEDDO to respond to the medium- and long-term evolving threat through investments that improve force readiness training.

PART III -- PROGRAM DESCRIPTIONS

Line of Operation	JIEDDO Requirements	Total
Train the Force	Joint Center of Excellence	41,100,000
Train the Force Total		\$ 41,100,000

- **Joint Center of Excellence (JCOE):** The Joint Center of Excellence (JCOE) continues to assist combat training centers in their efforts to improve C-IED training for individuals, units, and battle staffs through an aggressive effort to create and integrate training enablers and more realistic C-IED battlefield conditions. The budget request funds daily operations of the JCOE, its distributed centers of excellence, and various other C-IED training support requirements. It includes basic costs associated with training and strategic engagements as well as supplies, fuels, vehicles and operations in four disparate geographical locations for C-IED training in support of Joint Forces.

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LINE OF OPERATION 4: STAFF AND INFRASTRUCTURE

	(In Thousands of Dollars)
FY 2010 Estimate	\$121,550
FY 2009 President's Budget	\$0
FY 2008 Budget	\$32,000

Part I – PURPOSE AND SCOPE

JIEDDO's Staff and Infrastructure LOO provides critical support in terms of civilian personnel, contractor support services, information technology, travel, and supplies that enable the organization to conduct its mission effectively. JIEDDO headquarters is comprised of the Command Group, Director's Special Staff, Deputy Director for Rapid Acquisition and Technology, Deputy Director for Operations and Training, Deputy Director for Intelligence, Director of C-IED Operations Integration Center (COIC), and Director of the Joint Center of Excellence.

PART II -- JUSTIFICATION OF FUNDS REQUIRED

The FY 2010 Base Budget request institutionalizes JIEDDO's enduring mission to defeat the global and long-term IED threat by migrating critical funding for Staff and Infrastructure to the Department's Base funding. The funding supports JIEDDO's enduring requirements to achieve its mission objectives: strategic planning, rapid acquisition, operations and intelligence fusion, and operations and training support. By providing funding for Staff and Infrastructure in the DoD Base Budget, JIEDDO will be better positioned to improve medium- and long-term effectiveness as well as immediate support for mission-related activities.

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PART III -- PROGRAM DESCRIPTIONS

Line of Operation	JIEDDO Requirements	Total
Staff and Infrastructure	Human Capital:	82,595,000
	Civilian Personnel	18,861,000
	Contractor Support Services (CSS)	63,734,000
	Information Technology	17,083,000
	Facilities/Communications	12,723,000
	Travel	2,876,000
	Field Team Support	3,489,000
	Other (Supplies)	2,784,000
Staff and Infrastructure Total		\$121,550,000

- **Human Capital:** This funding supports JIEDDO's efforts to staff the organization with the proper mix of military, government civilians, and contractor support with the focus of putting the right skill sets in the right positions at the right time. Building a well-balanced, world-class workforce with the knowledge, skills and abilities necessary to accomplish JIEDDO's mission both now and in the future, requires the institution of a robust framework of HR policies and processes to attract, develop, and retain quality people.
- **Information Technology:** The Base Budget funds the maintenance and upgrade of hardware and software; the development of the JIEDDO Enterprise Management Systems (JEMS) with an evolutionary design that focuses on and supports an agile network architecture; records management; and software licensing support within a strategy that enables JIEDDO to accomplish its C-IED missions in a secure net-centric, knowledge-based environment.
- **Facilities/Communications:** The budget request funds a physical and technological infrastructure that supports JIEDDO's world-class workforce. Facility expansion supports the full complement of personnel and allows for close coordination and facilitation of group meetings in a secure environment. Communication enhancements and technological upgrades will continually be sought and integrated into the physical layout to further enhance JIEDDO's efficiency and productivity.
- **Travel:** This funding supports JIEDDO's efforts to maintain relevance to the warfighter, domestically and internationally.
- **Field Team Support:** The budget request funds the costs that support the in-theater Field Teams, providing the necessary conduits for reporting back evolving C-IED requirements and disseminating new C-IED technologies and TTPs.
- **Other (supplies):** The budget request provides funding for other costs including supplies, office equipment, and other back office activities.

Fiscal Year 2010 Overseas Contingency Operations Estimate



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May 2009

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Improvised explosive devices (IEDs) in the hands of insurgents and terrorists remain a critical threat to the safety of Joint and Coalition Forces in Iraq and Afghanistan, as well as to longer-term U.S. strategic interests. The use of these inexpensive weapons has grown, as has the technical sophistication of the enemy. The FY 2010 Overseas Contingency Operations Budget request of \$1,535,000,000 will provide the Joint IED Defeat Organization (JIEDDO) with the necessary funding and management flexibility to rapidly develop and field materiel and non-materiel Counter-IED (C-IED) solutions and to support realistic and timely C-IED training for deployed and deploying warfighters.

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Fiscal Year (FY) 2010 Overseas Contingency Operations Request

	(In Thousands of Dollars)
FY 2010 OCO Request	\$1,535,000
FY 2009 GWOT Estimate*	\$3,466,746
FY 2008 GWOT Actual	\$4,197,469

* FY 2009 estimate includes \$2,000,000,000 funded in the Supplemental Appropriations Act, 2008 (P.L. 110-252) and an additional \$1,466,746,000 submitted in the FY 2009 Remaining OCO request.

PART I – PURPOSE AND SCOPE

The Joint Improvised Explosive Device Defeat Fund (JIEDDF) provides funding for the Joint Improvised Explosive Device Defeat Organization (JIEDDO). Defeating the strategic influence of all forms of improvised explosive devices (IEDs) against Joint and Coalition Forces requires a comprehensive approach that combines an aggressive offense with a solid defense – ahead of enemy innovations. JIEDDO focuses (leads, advocates, and coordinates) all Department of Defense (DoD) efforts in support of Combatant Commanders and their respective Joint Task Forces to defeat IEDs as weapons of strategic influence, striking a balance of focused information fusion, technology, and training. JIEDDO is organized into four lines of operations (LOOs), of which three directly carry out its mission: Attack the Network, Defeat the Device, and Train the Force. JIEDDO was established as a joint entity and a jointly manned activity of DoD. This organizational structure facilitates collaboration and mission execution across DoD. JIEDDO develops the means to successfully disrupt the networks that fund, develop and employ IEDs; and provides defenses at the point of attack. Additionally, JIEDDO enables the training of warfighters in the use of new equipment and tactics, techniques, and procedures (TTPs) against emerging IED threats. The FY 2010 Overseas Contingency Operations Budget request is formulated to rapidly deliver effective C-IED solutions in order to eliminate the IED as a weapon of strategic influence.

PART II – JUSTIFICATION OF FUNDS REQUIRED

The FY 2010 Overseas Contingency Operations (OCO) Budget request preserves JIEDDO's unique ability to achieve decisive results from concept to rapidly-delivered capabilities in the effort to defeat IEDs. Through the synergy created by leveraging the interactions of the LOOs, DoD has achieved an unprecedented capability to respond rapidly and effectively to this challenge. The Joint-IED Capabilities Approval and Acquisition Management Process (JCAAMP) is the operational model by which JIEDDO aggressively seeks, acquires and assesses potential C-IED solutions for operational deployment, often in response to Joint Urgent Operational Needs (JUONs). JCAAMP supports all of JIEDDO's LOOs and rapidly takes both materiel and non-materiel initiatives through the evaluation, approval, acquisition, operational assessment, sustainment, and transition phases.

**JUSTIFICATION OF FISCAL YEAR (FY) 2010 BUDGET ESTIMATES
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LINE OF OPERATION 1: ATTACK THE NETWORK

	(In Thousands of Dollars)
FY 2010 OCO Estimate	\$812,000
FY 2009 GWOT Estimate	\$1,224,830
FY 2008 GWOT Actual	\$1,258,000

PART I – PURPOSE AND SCOPE

The offensive portion of the IED fight, Attack the Network, is the cornerstone of the Department's C-IED strategy. JIEDDO is aligned with U.S. Central Command's campaign and has identified the necessary resources to support this critical operation. JIEDDO also provides enabling capabilities to Combatant Commanders and their subordinate units to conduct offensive operations against the complex enemy network of financiers, IED makers, trainers, and their supporting infrastructure. This activity supports the procurement of capabilities to attack IED networks and establishes net-centric C-IED operations in theater.

PART II – JUSTIFICATION OF FUNDS REQUIRED

The FY 2010 OCO Budget request provides the capability to identify, attack, and disrupt the enemy's IED networks. JIEDDO supports the warfighter by developing, procuring, integrating, and sustaining new technologies; providing tools for modeling and simulation, and fusing information. JIEDDO provides operationally integrated products to deployed forces in order to capitalize on synergies from offensive operations. The resulting C-IED capabilities are made available to the warfighter at the required tactical levels to directly support planning and execution.

PART III – PROGRAM DESCRIPTIONS

Line of Operation	JIEDDO Requirements	Total
Attack the Network	Information Fusion	266,700,000
	Joint Urgent Operational Needs (JUONs)	126,370,000
	Non-JUON Initiatives	418,930,000
Attack the Network Total		\$ 812,000,000

JUSTIFICATION OF FISCAL YEAR (FY) 2010 BUDGET ESTIMATES JOINT IMPROVISED EXPLOSIVE DEVICE DEFEAT FUND

- **Information Fusion:** Supports the Combatant Commanders' efforts to defeat enemy IED networks by harnessing and amassing information, analyses, technology, and collaboration that enable more precise attacks. The OCO request supports the following activities:
 - **Technical managers and support staff:** Source analysts who provide critical information, as well as unique insight into systems and data, to forces in-theater that enable offensive operations to defeat IED networks. These capabilities permit the warfighter to properly leverage actionable attack the network-aimed products.
 - **Global information grid bandwidth:** The information and communications architecture that provides data for detailed analyses that facilitate real-time collaboration with the in-theater warfighter.
 - **Field teams:** Operations teams, comprised of military and civilian personnel, who deploy to Iraq and Afghanistan to coordinate the dissemination of new C-IED technologies, tactics, and techniques and act as conduits of information back to JIEDDO.
- **Joint Urgent Operational Needs (JUONs):** Emerging, immediate needs identified by Combatant Commanders and their respective Joint Task Forces that are considered life- or combat mission-threatening to which JIEDDO rapidly develops and deploys C-IED solutions. The FY 2010 budget estimate is derived from historical experience as well as current trends and anticipated needs. The request also funds the sustainment of JIEDDO-funded JUON requirements not yet terminated, transitioned, or transferred to the Services or other agencies.
- **Non-JUON Initiatives:** Initiative development allows for JIEDDO to make strategic investments and capitalize on unforeseen opportunities to deploy C-IED non-materiel solutions outside the JUON process. These initiatives focus on technologies that are aimed at disrupting IED networks (e.g. financiers, bomb makers, trainers, etc.). These include:
 - **Persistent Surveillance Technologies:** Methods to monitor IED network activity and emplacement in a spatial- and temporal-information scarce environment with unsanctioned actors.
 - **Social and Dynamic Network Analysis:** Technological and network-breaking activities that combine spatial, temporal, relational, and cultural knowledge discovery and modeling to identify and predict adversary trends, patterns and future courses of action.

**JUSTIFICATION OF FISCAL YEAR (FY) 2010 BUDGET ESTIMATES
JOINT IMPROVISED EXPLOSIVE DEVICE DEFEAT FUND**

LINE OF OPERATION 2: DEFEAT THE DEVICE

	(In Thousands of Dollars)
FY 2010 OCO Estimate	\$536,000
FY 2009 GWOT Estimate	\$1,557,389
FY 2008 GWOT Actual	\$2,268,469

PART I – PURPOSE AND SCOPE

Defeat the Device develops solutions designed to thwart the impact of emplaced IEDs, including technologies that assist in detecting IEDs from greater distances, mitigating blast effects, protecting against blast injuries, and safely disarming or detonating IEDs before enemy activation. JIEDDO delivers solutions to Combatant Commanders to find and defeat IEDs at the point of attack, thereby reducing casualties and enhancing Commanders' freedom of action.

PART II – JUSTIFICATION OF FUNDS REQUIRED

The FY 2010 OCO Budget request supports JUON requirements as well as the sustainment of those JUONs previously funded by JIEDDO up to the point they are terminated, transferred, or transitioned to the Services or other agencies. Funds are also required to make initial investments to counter emerging threats and to capitalize on unforeseen opportunities to deploy C-IED materiel solutions outside of the JUON process.

PART III – PROGRAM DESCRIPTIONS

Line of Operation	JIEDDO Requirements	Total
Defeat the Device	Joint Test Environment	59,480,000
	Joint Urgent Operational Need (JUON)	449,270,000
	Non-JUON Initiatives	27,250,000
Defeat the Device Total		\$ 536,000,000

- **Test Environment:** The JIEDDO Test Board (JTB) coordinates and synchronizes test and evaluation (T&E) resources in order to adequately test and evaluate systems to provide information to decision makers and the warfighter. Specifically, funding allows for the testing and evaluation of JUON and theater-ready materiel solutions, and for the coordination of operational assessments.

JUSTIFICATION OF FISCAL YEAR (FY) 2010 BUDGET ESTIMATES
JOINT IMPROVISED EXPLOSIVE DEVICE DEFEAT FUND

- **Joint Urgent Operational Needs (JUONs):** Emerging, immediate needs identified by Combatant Commanders and their respective Joint Task Forces that are considered life- or combat mission-threatening to which JIEDDO rapidly develops and deploys C-IED solutions. The FY 2010 budget estimate is derived from historical experience as well as current trends and anticipated needs. The request also funds the sustainment of JIEDDO-funded JUON requirements not yet terminated, transitioned, or transferred to the Services or other agencies.

- **Non-JUON Initiatives:** Initiative development allows for JIEDDO to make strategic investments and capitalize on unforeseen opportunities to deploy C-IED non-materiel solutions outside the JUON process. These initiatives focus on technologies that are aimed at detecting, neutralizing, and mitigating IEDs.

JUSTIFICATION OF FISCAL YEAR (FY) 2010 BUDGET ESTIMATES
JOINT IMPROVISED EXPLOSIVE DEVICE DEFEAT FUND

LINE OF OPERATION 3: TRAIN THE FORCE

	(In Thousands of Dollars)
FY 2010 OCO Estimate	\$187,000
FY 2009 GWOT Estimate	\$583,527
FY 2008 GWOT Actual	\$603,000

Part I – PURPOSE AND SCOPE

The best asset on the battlefield is a well-led, trained, situationally-aware Soldier, Sailor, Airman or Marine. JIEDDO supports demanding training requirements to prepare units prior to and during deployment for operations in an intense, fluid IED environment. In order to enable Joint and Coalition Forces to proactively defeat the IED threat in Afghanistan and Iraq, JIEDDO-sponsored initiatives facilitate individual and collective training and propagate IED defeat tactics, techniques, and procedures (TTPs).

PART II – JUSTIFICATION OF FUNDS REQUIRED

The FY 2010 OCO Budget request procures critical C-IED training equipment, exports training capabilities to multiple locations, provides pre-deployment C-IED training to service members, and fuses IED defeat training efforts across the Services in an integrated approach that supports a joint operating environment.

JIEDDO sponsors C-IED training at each of the Services' major training centers for military personnel. For pre-deployment training, units use C-IED surrogate equipment replicating actual equipment found in theater. This training is designed for the entire chain of command from the individual warfighter to senior leader, and includes unit collective training. Training consists of seminar work and accompanying practical exercises, covering topics such as the IED threat and countermeasures, device components, types of attacks, route reconnaissance and clearing, and current in-theater trends. The training, supported by seasoned C-IED instructors with recent in-theater experience, occurs at home station and at Service training centers. Training personnel are continually rotated in and out of theater to ensure that deploying warfighters are receiving information on current theater trends and valid experience with C-IED tactics, techniques, and procedures (TTPs). Specialized units, such as the Explosive Ordnance Disposal (EOD) and route clearance teams, are constantly refining their techniques and procedures against IEDs with the assistance of JIEDDO personnel. All embedded Coalition training teams (Military, Border, Police, etc) undergo C-IED training prior to deployment.

JUSTIFICATION OF FISCAL YEAR (FY) 2010 BUDGET ESTIMATES
JOINT IMPROVISED EXPLOSIVE DEVICE DEFEAT FUND

PART III – PROGRAM DESCRIPTIONS

Line of Operation	JIEDDO Requirements	Total
Train the Force	Counter-IED Training Support	187,000,000
Train the Force Total		\$ 187,000,000

- **Counter-IED Training:**

- **Counter-IED Pre-Deployment Support:** Instrumental to the C-IED fight, training ensures that units experience the most current operational tactics, techniques, and procedures (TTPs) unique to their theaters of operation prior to actually deploying. Initiatives for Joint and Coalition Forces include training on various IED-defeat systems, route reconnaissance and clearance, C-IED robotics, predictive analysis tools, weapons intelligence teams, biometrics, and tactical site exploitation that are used in combat theaters.
- **CENTCOM Specific Training:** Addresses joint training needs for theater-specific solutions, including immersive training. This funding will provide support in closing C-IED training gaps that cannot be closed by the Services on short-notice, including advanced technical training.
- **CENTCOM Surrogates and Equipment:** Provides for the purchase, distribution and fielding of equipment and the development, testing and fielding of surrogate equipment. It also provides for the maintenance and sustainment of this equipment at multiple service training venues around the world, including training aids used in combat theaters.

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Exhibit P-40 Budget Item Justification					Date: May 2009				
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number 2093/Joint Improvised Explosive Device Defeat Fund					P-1 Line Item Nomenclature Joint Improvised Explosive Device Defeat Organization				
Program Element for Code B Items:				Other Related Program Elements:					
Procurement Items Cost (\$ in millions)	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	Total
Proc Qty									
Gross Cost									
Less PY Adv Proc									
Plus CY Adv Proc									
Net Proc (=P-1)									
Initial Spares									
Total Proc Cost	\$ 4,317.5	\$ 3,466.7	\$ 2,099.8						9,884.0
Flyaway U/C									
Wpn Syst Proc U/C									
DESCRIPTION:									
<u>Joint Improvised Explosive Device Defeat Organization (JIEDDO) (\$2,099.8M)</u>									
<p>The Joint Improvised Explosive Device Defeat Fund (JIEDDF) is the sole funding source for JIEDDO. Defeating the strategic influence of all forms of improvised explosive devices (IEDs) against Joint and Coalition Forces requires a comprehensive approach that combines an aggressive offense with a solid defense – ahead of enemy innovations. JIEDDO focuses (leads, advocates, and coordinates) all Department of Defense (DoD) efforts in support of Combatant Commanders and their respective Joint Task Forces to defeat IEDs as weapons of strategic influence, striking a balance of focused information fusion, technology, and training. JIEDDO was established as a joint entity and a jointly manned activity of DoD. This organizational structure facilitates collaboration and mission execution across DoD. JIEDDO is organized into four lines of operation (LOOs), of which three directly carry out its mission: Attack the Network, Defeat the Device, and Train the Force. JIEDDO develops the means to successfully disrupt the networks that fund, develop and employ IEDs; and provides defenses at the point of attack. Additionally, JIEDDO enables the training of warfighters in the use of new equipment and tactics, techniques, and procedures (TTPs) against emerging IED threats. The FY 2010 estimate is formulated to maintain Counter-IED (C-IED) capability readiness in support of existing and emerging overseas contingency operations; and to rapidly deliver effective C-IED solutions to theater that seek to eliminate IEDs as weapons of strategic influence.</p>									

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Base Budget Request (\$564.8M):

Defeating the strategic influence of IEDs requires a comprehensive approach that aggressively disrupts the networks that fund, support, and emplace IEDs; and defends at the point of attack. To this end, JIEDDO executes a multi-faceted strategy that balances focused information fusion, materiel and non-materiel initiatives, and training. JIEDDO has an enduring mission to defeat the global IED threat beyond its support of current operations in Iraq and Afghanistan. The FY 2010 Base Budget institutionalizes JIEDDO's core C-IED capabilities to address future IED threats wherever they may emerge. The request includes funding that sustains JIEDDO's long-term Science and Technology (S&T) and Development efforts, the basic functionality of the C-IED Operations Integration Center (COIC), the Joint Center of Excellence (JCOE), and its Staff and Infrastructure.

Overseas Contingency Operations Request (\$1,535.0M):

IEDs remain a critical threat to the safety of Joint and Coalition Forces in Iraq and Afghanistan, as well as to longer-term U.S. strategic interests. This request preserves JIEDDO's unique rapid acquisition capabilities in order to quickly close emerging capability gaps and deliver timely C-IED solutions to the warfighter. JIEDDO leverages the synergy created by the interactions of its lines of operation and uses the Joint-IED Capabilities Approval and Acquisition Management Process (JCAAMP) as its operational model to aggressively seek, acquire and assess potential C-IED solutions for operational deployment; most of which are fielded in direct response to Joint Urgent Operational Needs (JUONs). This process enables JIEDDO to rapidly acquire systems and develop capabilities to meet warfighter needs, normally within four to twenty-four months, transitioning to the Services those initiatives ultimately determined to have a Service-related enduring C-IED capability.

Line of Operation 1: Attack the Network (\$1,015.1M)

Attack the Network Base Budget Request (\$203.1M):

The FY 2010 Base Budget request provides the essential capabilities necessary to support the COCOMs' ability to attack and disrupt the enemy's IED networks. JIEDDO supports this long-term effort by fusing existing information and by developing and integrating new tools for modeling and simulation. The request sustains the Counter-IED Operations Integration Center's (COIC's) core C-IED information fusion activities to ensure that this capability is ready for overseas contingency operations as they arise. It also supports the most critical S&T and Technology and Development initiatives aimed at mitigating the medium- and long-term threats posed by IED networks.

Attack the Network Overseas Contingency Operations Request (\$812.0M):

FY 2010 OCO Budget request will furnish the means to develop and deliver capability solutions designed to identify, attack and disrupt the enemy's IED networks. JIEDDO supports the warfighter by developing, procuring, integrating and sustaining new technologies, tools for modeling and simulation, and fusing information. JIEDDO provides operationally integrated products to deployed forces in order to capitalize on synergies from offensive operations. These resulting C-IED capabilities are then made available to the warfighter at the appropriate levels to meet their requirements for planning and execution.

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Line of Operation 2: Defeat the Device (\$735.1M)

Defeat the Device Base Budget Request (\$199.1M)

The FY 2010 Base Budget request supports JIEDDO's most critical S&T and Development initiatives that are focused on mitigating the medium- and long-term threats posed by IEDs. This includes initiatives to detect IEDs from greater distances; mitigate blast effects and protect against blast injuries; and enable troops to safely disarm or detonate IEDs before they can be activated by the enemy. JIEDDO identifies, develops, acquires, and fields new technologies aimed at finding and defeating IEDs at the point of attack, thereby lowering casualties and enhancing Commanders' freedom of action.

Defeat the Device Overseas Contingency Operations Request (\$536.0M)

FY 2010 OCO Budget request supports the development and fielding of materiel and non-materiel solutions to emerging JUONs as well as the sustainment of those JUONs previously funded by JIEDDO; up to the point that they are terminated, transferred, or transitioned to the Services or other agencies. Funds are also required to make initial investments to counter emerging threats and to capitalize on unforeseen opportunities to deploy C-IED materiel solutions outside of the JUON process. These resulting C-IED materiel solutions are then made available to the warfighter at the appropriate levels to support operational planning and execution.

Line of Operation 3: Train the Force (\$228.1M)

Train the Force Base Budget Request (\$41.1M)

The FY 2010 Base Budget request sustains JIEDDO's ongoing support for individual and collective training on C-IED tactics, techniques and procedures (TTPs). Through its Joint Center of Excellence (JCOE), JIEDDO sponsors C-IED training for each of the Services at all levels of the chain of command. This funding postures JIEDDO to leverage theater events and lessons learned to provide C-IED focused training that protects Joint Forces and to enables warfighters to attack and defeat the IED threat. The request provides funding for JCOE's staff and facility costs, including equipment and surrogates, that are needed to fulfill its day-to-day training requirements. The request also allows JIEDDO to respond to the evolving medium- and long-term IED threat through investments that improve force readiness training.

Train the Force Overseas Contingency Operations Request (\$187.0M)

The FY 2010 OCO Budget request enables JIEDDO to procure critical C-IED training equipment, export training capabilities to multiple locations, provide pre-deployment C-IED training to service members, and fuse IED defeat training efforts across the Services in an integrated approach that supports a joint operating environment. JIEDDO sponsors C-IED training for military personnel at each of the Services' major training centers that is designed for the entire chain of command from individual warfighter to senior leader, to include unit collective training. Training support consists of seminars and practical exercises, covering topics such as the theater-specific IED threat and countermeasures, device components, types of attacks, route reconnaissance and clearing, and current in-theater trends. The training is supported by seasoned C-IED instructors with recent in-theater experience and occurs at both home station and Service training centers. Training personnel are continually rotated in and out of theater to ensure that deploying warfighters are receiving information on current theater trends and combat proven C-IED tactics, techniques, and procedures (TTPs). For pre-deployment training, units use C-IED surrogate equipment replicating actual equipment found in theater. All embedded Coalition training teams (Military, Border, Police, etc) must undergo C-IED training prior to deployment. Specialized units such as the Explosive Ordnance Disposal (EOD) and route clearance teams constantly refine their techniques and procedures against IEDs with the assistance of JIEDDO personnel.

Line of Operation 4: Staff and Infrastructure (\$121.6M)

Staff and Infrastructure Base Budget Request (\$121.6M)

The FY 2010 Base Budget request reflects JIEDDO's enduring mission to defeat the global and long-term IED threat by migrating the funding for its Staff and Infrastructure to the Department's Base funding. The request supports JIEDDO's critical support structure in terms of civilian salaries, contractor support services, information technology, travel, supplies, building and vehicle leases, and other operating expenses that are necessary to the success of the Attack the Network, Defeat the Device, and Train the Force lines of operation.