

OSD RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit)

Date: February 2007

APPROPRIATION/ BUDGET ACTIVITY
RDT&E/ Defense Wide BA# 3

PE NUMBER AND TITLE

06030000D8Z - Insensitive Munitions Advanced Technology

Cost (\$ in Millions)	FY 2006 Actual	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Total Program Element (PE) Cost	0.000	0.000	6.000	16.000	21.000	18.000	23.000	25.000
P300 Insensitive Munitions AT	0.000	0.000	6.000	16.000	21.000	18.000	23.000	25.000

A. Mission Description and Budget Item Justification: (U) This program addresses advanced technology development associated with improving the lethality, reliability, safety and survivability of munitions and weapon systems. The goal is to develop joint enabling technologies that can be used by the Program Managers as they develop their specific weapon programs. The program invests in and demonstrates technologies from a Joint Service perspective thus insuring the development of technology with the broadest applicability.

(U) This effort will demonstrate enabling technologies needed to develop weapons in compliance with Insensitive Munitions (IM) requirements established in Title 10, United States Code, DoDI 5000.1, and CJCSI 3170.01C. This effort will take promising technologies demonstrated at the laboratory scale and transition them into demonstration programs utilizing generic hardware based on priority munitions identified in the Program Executive Office IM Strategic Plans. In this way promising formulations, ingredients, case technologies, liners and coatings can be integrated into a munition configuration and its ability to improve the IM response can be validated. Program Managers can then transition mature demonstrated IM technology, decreasing their program costs and schedule risk, and hopefully facilitating their spin-off into other non-compliant munitions within their portfolios.

B. Program Change Summary	FY 2006	FY 2007	FY 2008	FY 2009
Previous President's Budget (FY 2007)				
Current BES/President's Budget (FY 2008/2009)	0.000	0.000	6.000	16.000
Total Adjustments	0.000	0.000	6.000	16.000
Congressional Program Reductions				
Congressional Rescissions				
Congressional Increases				
Reprogrammings				
SBIR/STTR Transfer				
Other			6.000	16.000

C. Other Program Funding Summary: Not Applicable.

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D. Acquisition Strategy: Not Applicable.

E. Performance Metrics: Not Applicable.

OSD RDT&E PROJECT JUSTIFICATION (R2a Exhibit)

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PE NUMBER AND TITLE

06030000D8Z - Insensitive Munitions Advanced TechnologyPROJECT
P300

Cost (\$ in Millions)	FY 2006 Actual	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
P300 Insensitive Munitions AT	0.000	0.000	6.000	16.000	21.000	18.000	23.000	25.000

A. Mission Description and Project Justification: This RDT&E effort will demonstrate enabling technologies needed to develop weapons in compliance with Insensitive Munitions (IM) requirements established in Title 10, United States Code, DoDI 5000.1, and CJCSI 3170.01C. This effort will take promising technologies demonstrated at the laboratory scale and transition them into demonstration programs utilizing generic hardware based on priority munitions identified in the Program Executive Office (PEO) IM Strategic Plans. PEOs can then transition mature demonstrated IM technology, decreasing their program costs and schedule risk, and hopefully facilitating spin-offs to other non-compliant munitions within their portfolios.

B. Accomplishments/Planned Program:

Accomplishment/Planned Program Title	FY 2006	FY 2007	FY 2008	FY 2009
Insensitive Munitions Advanced Technology Development	0.000	0.000	6.000	16.000

FY2008 Plans: Using PEO IM Strategic Plans, identify candidate munitions configurations for generic IM testing. Design and manufacture generic hardware for utilization in technology demonstration tests. Fabricate a generic small diameter rocket motor to demonstrate minimum smoke rocket motor technology which may include new propellant formulations, coatings or case design concepts. Fabricate a generic artillery round to demonstrate blast/fragmentation warhead technology which may include new energetic ingredients and binders, novel formulations, liners and coatings or case design concepts. Fabricate a generic 1st generation anti-armor warhead to demonstrate anti-armor technology which may include new energetic ingredients and binders, novel formulations, liners and coatings or case design concepts. Conduct coordinated test programs which demonstrate the range of effectiveness of these new IM technologies against the IM threats of slow and fast heating, bullet and fragment impact, sympathetic reaction, and shaped charge jet impact.

FY2009 Plans: In FY2009, in addition to those efforts already underway, fabricate a generic small diameter rocket motor to demonstrate high performance rocket motor technology which may include new propellant formulations, coatings or case design concepts. Demonstrate large caliber gun propulsion technology which may include novel ingredients or formulations, case designs, or liners and coatings. Demonstrate the use of a reactive liner concept in a generic blast/fragmentation warhead concept. Conduct coordinated IM test programs which demonstrate the range of effectiveness of these new technologies against the IM threats of slow and fast heating, bullet and fragment impact, sympathetic reaction, and shaped charge jet impact.

C. Other Program Funding Summary: Not Applicable.

D. Acquisition Strategy: Not Applicable.

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E. Major Performers Not Applicable.