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Exhibit R-2, RDT&E Budget Item Justification						Date: February 2006
APPROPRIATION/BUDGET ACTIVITY RDT&E, Defense-Wide/Basic Research – BA1						R-1 ITEM NOMENCLATURE: DTRA Basic Research Initiative; 0601000BR

Cost (\$ in Millions)	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Total 0601000BR Cost	0.000	0.000	5.000	5.000	5.000	5.000	5.000
BT - Basic Research for WMD Knowledge Gaps	0.000	0.000	5.000	5.000	5.000	5.000	5.000

A. Mission Description and Budget Item Justification:

This program element funds broad-based scientific and technology basic research in technologies critical to mitigating current, emergent, and future WMD threats. Key thrust areas for this research will be in physics, materials, structures, biology, chemistry, and detection technology. This investment will seek to leverage the \$1B annual DoD investment in technology and apply this to the WMD Defeat and Defense challenges.

These efforts are closely coordinated with the chem-bio technology portfolio which executes a basic research program under the joint Chem-Bio Defense Program. Agency research interests are coordinated with those of DARPA and Service basic research programs through the Defense Basic Research Advisory Group. DTRA will review its research interests at least annually to focus on those technology areas not clearly addressed by other basic research efforts.

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B. Program Change Summary:

(\$ in Millions)	FY 2005	FY 2006	FY 2007
Previous President's Budget	0.000	0.000	0.000
Current President's Budget	0.000	0.000	5.000
Total Adjustment	0.000	0.000	5.000
Congressional program reductions			
Congressional reductions			
Congressional increases			
Reprogramming	0.000	0.000	5.000
SBIR/STTR Transfer			
Other program adjustments			

Change Summary Explanation:

- This project is initiated by an internal transfer of funding within DTRA research and development resources to create a Basic Research program to support areas that are critical to defeating the emerging WMD threat.

C. Other Program Funding Summary: See Exhibit R-2a.**D. Acquisition Strategy:** Not Applicable.

E. Performance Metrics: Research performance is monitored through annual peer review of merit and measures of publications, significant awards, and transition efforts. Research relevance is monitored through assessment by the operational and applied research communities likely to benefit from basic research efforts.

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Exhibit R-2a, RDT&E Project Justification						Date: February 2006
APPROPRIATION/BUDGET ACTIVITY RDT&E, Defense-Wide/Basic Research – BA1				PROJECT NAME AND NUMBER: 0601000BR Project BT – Basic Research for WMD Knowledge Gaps		

Cost (\$ in Millions)	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Project BT-Basic Research for WMD Knowledge Gaps	0.000	0.000	5.000	5.000	5.000	5.000	5.000

A. Mission Description and Budget Item Justification:

Program provides for the discovery and development of fundamental knowledge and understanding by research performers drawn primarily from academia and world-class research institutions in government and industry. This leverages DoD's \$1 billion annual investment in basic research by ensuring a motivation within the scientific community to conduct research benefiting WMD-related defense missions and by improving agency knowledge of other research efforts of potential benefit to DTRA's non-proliferation, counterproliferation and consequence management efforts.

These efforts are closely coordinated with the chem-bio technology portfolio which executes a basic research program under the joint Chem-Bio Defense Program. Agency research interests are coordinated with those of DARPA and Service basic research programs through the Defense Basic Research Advisory Group. DTRA will review its research interests at least annually to focus on those technology areas not clearly addressed by other basic research efforts.

B. Accomplishments/Planned Program:

Cost (\$ in Millions)	FY 2005	FY 2006	FY 2007
Basic Research for WMD Knowledge Gaps	0.000	0.000	5.000

FY 2005 Accomplishments:

- Not Applicable.

FY 2006 Plans:

- Not Applicable.

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FY 2007 Plans:

- Initiate basic research efforts, as funding permits, the interest areas of transport models, equipment/personnel protection methods, effects of ionizing radiation, counter WMD weapons effects models, novel sensor materials, threat attribution, and mission impact to complex systems.

C. Other Program Funding Summary: Not Applicable.

D. Acquisition Strategy: Procurement methods include in-scope award through DTRA University Strategic Partnership, collaborative funding through other organizations, and competitive award through Broad Agency Announcement.

E. Major Performers: Not Applicable.