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<b>Missile Defense Agency (MDA) Exhibit R-2 RDT&amp;E Item Justification</b>	Date <b>February 2007</b>
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<b>APPROPRIATION/BUDGET ACTIVITY</b> <b>RDT&amp;E, DW/06 RDT&amp;E Management Support</b>	<b>R-1 NOMENCLATURE</b> <b>0605502C Small Business Innovative Research - MDA</b>
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COST (\$ in Thousands)	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Total Program Element (PE) Cost	133,105	0	0	0	0	0	0	0
0510 Statutory & Mandated Programs	133,105	0	0	0	0	0	0	0

**A. Mission Description and Budget Item Justification**

This project explores innovative concepts pursuant to Public Law 106-554 (Small Business Reauthorization Act of 2000) and Public Law 107-50 (Small Business Technology Transfer Program Reauthorization Act of 2001), which mandates a two-phase competition for small businesses with innovative technologies that can also be commercialized. The Small Business Innovation Research (SBIR) and Small Business Technology Transfer (STTR) programs will develop new dual-use technologies for possible future MDA BMDS needs. Dual-use means that the technologies will also be judged on their potential for future private sector investment both as a vehicle for reducing development time and cost, unit costs of new MDA BMDS technologies, and as a route to national economic growth through new commercial products. MDA will conduct the competition and will award and manage the contracts with assistance from our executing agents.

**Accomplishments/Planned Program**

	FY 2006	FY 2007	FY 2008	FY 2009
SBIR Awards	118,843	0	0	0

**FY06 Accomplishments:**

- Selected approximately 175 Phase I's (at about 100k each) and approximately 121 Phase II's (around 750k each) for award.
- These awards were in the following 21 research areas: insensitive munitions, electro-optics, laser technology, cryogenics, space target technology, manufacturing process, security/anti-tamper, batteries, composite materials, radiation hardening, radar systems technology, satellite components, discrimination, modeling and simulation, software development, sensor fusion/decision architecture, sustainment and logistics, investment planning, THAAD upgrades, communications and battle management, and propulsion.
- Implemented MDA Phase II Enhancement program (\$6M) to leverage matching, non-SBIR funds.
- Selections primarily based on assessment of transition plans offered by the applicants.

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	FY 2006	FY 2007	FY 2008	FY 2009
STTR Awards	14,262	0	0	0

**FY06 Accomplishments:**

- Selected approximately 26 Phase I's and approximately 16 Phase II's for award.
- The Phase I awards were in the following 9 research areas: insensitive munitions, electro-optics, laser technology, security/anti-tamper, radar systems, discrimination, software development, sensor fusion/decision architecture, and propulsion.

<b>B. Program Change Summary Table</b>	FY 2006	FY 2007	FY 2008	FY 2009
Previous President's Budget (FY 2007 PB)	0	0	0	0
Current President's Budget (FY 2008 PB)	133,105	0	0	0
Total Adjustments	133,105	0	0	0
Congressional Specific Program Adjustments	0	0	0	0
Congressional Undistributed Adjustments	0	0	0	0
Reprogrammings	0	0	0	0
SBIR/STTR Transfer	133,105	0	0	0
Adjustments to Budget Years	0	0	0	0

FY06 amount of \$133.105 includes the mandatory SBIR/STTR transfer.

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<b>C. Other Program Funding Summary</b>									
	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	Total Cost
PE 0603175C Ballistic Missile Defense Technology	147270	193307	118569	109540	116014	121008	127917	131291	1064916
PE 0603881C Ballistic Missile Defense Terminal Defense Segment	1120879	1092076	962585	1004282	924101	851213	678694	501147	7134977
PE 0603882C Ballistic Missile Defense Midcourse Defense Segment	2391246	3043058	2520064	2359665	2179602	1699963	1153082	1183003	16529683
PE 0603883C Ballistic Missile Defense Boost Defense Segment	455572	628958	548759	432432	448375	678913	829683	1026239	5048931
PE 0603884C Ballistic Missile Defense Sensors	284297	514129	778163	984963	939417	791701	723843	603585	5620098
PE 0603886C Ballistic Missile Defense System Interceptors	200446	356004	227499	393317	522388	730236	836029	570206	3836125
PE 0603888C Ballistic Missile Defense Test and Targets	610619	601782	586150	628364	662984	681511	696037	705210	5172657
PE 0603889C Ballistic Missile Defense Products	387402	0	0	0	0	0	0	0	387402
PE 0603890C Ballistic Missile Defense System Core	409993	429420	482016	511147	558746	579571	579316	588480.9	4138689.9
PE 0603891C Special Programs - MDA	271021	353031	323250	305409	369073	526966	789017	792271	3730038
PE 0603892C Ballistic Missile Defense Aegis	893040	1122669	1059103	1129425	1221650	1067587	1054753	1089078	8637305
PE 0603893C Space Tracking & Surveillance System	220048	322220	331525	347811	412623	501197	778067	981424	3894915
PE 0603894C Multiple Kill Vehicle	48370	144362	271151	352741	461179	618263	673477	842905	3412448
PE 0603895C BMD System Space Program	0	0	27666	35093	46849	56183	133617	157117	456525
PE 0603896C BMD C2BMC	0	246852	258913	294627	300847	282615	267275	269420	1920549
PE 0603897C BMD Hercules	0	49674	53658	54264	54405	55142	53355	54198	374696
PE 0603898C BMD Joint Warfighter Support	0	54935	48787	50428	54086	56603	58890	60206	383935
PE 0603904C BMD Joint National Integration Center (JNIC)	0	110629	104012	106985	111542	111947	113592	115287	773994
PE 0603905C BMD Concurrent Test and Operations	0	23159	0	0	0	0	0	0	23159
PE 0603906C Regarding Trench	0	0	2000	3000	5000	5000	9000	9000	33000
PE 0901585C Pentagon Reservation	14874	15527	6058	6376	4490	4725	4801	4877	61728
PE 0901598C Management Headquarters - MDA	98609	87059	85906	86453	70355	69855	69855	69855	637947

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