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**Exhibit R-2, RDT&E Budget Item Justification:** PB 2015 Missile Defense Agency **Date:** March 2014

<b>Appropriation/Budget Activity</b> 0400: <i>Research, Development, Test &amp; Evaluation, Defense-Wide / BA 4: Advanced Component Development &amp; Prototypes (ACD&amp;P)</i>	<b>R-1 Program Element (Number/Name)</b> PE 0603913C / <i>Israeli Cooperative Programs</i>
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COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
Total Program Element	607.454	246.881	283.782	96.803	-	96.803	103.940	106.020	107.929	110.627	Continuing	Continuing
MD20: <i>Israeli Upper Tier</i>	176.204	68.637	74.707	54.368	-	54.368	55.660	56.773	57.795	59.240	Continuing	Continuing
MD26: <i>Israeli ARROW Program</i>	164.178	40.753	44.363	10.701	-	10.701	11.142	11.365	11.570	11.859	Continuing	Continuing
MD34: <i>Short Range Ballistic Missile Defense (SRBMD)</i>	267.072	137.491	149.712	31.734	-	31.734	37.138	37.882	38.564	39.528	Continuing	Continuing
MD83: <i>Iron Dome</i>	-	-	15.000	-	-	-	-	-	-	-	-	15.000

**MDAP/MAIS Code:** 362

# The FY 2015 OCO Request will be submitted at a later date.

**Note**

Content supports expected contributions from Israel per international agreements.

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

Since 1986, the United States and the State of Israel have cooperated on missile defense. Currently Missile Defense Agency (MDA) has four major projects with Israel to develop and improve their indigenous capability to defend against short and medium range ballistic missiles. These include Upper Tier Interceptors (MD20), the Iron Dome Program (MD83), the Arrow Weapon System (MD26), and the Short-Range Ballistic Missile Defense, also known as the David's Sling Weapon System (MD34). Within these projects MDA develops and produces weapon systems, conducts tests, and exercises interoperability between U.S. BMDs and the Israeli Missile Defense Architecture.

U.S.-Israel Cooperative Programs consist of the following major efforts:

Israeli Upper Tier Interceptor Project (UTI)(MD20):

The Upper Tier Program provides the Arrow 3 missile, increasing the system's capability against advanced medium range threats by providing approximately four times the current Arrow-2 battle space. The primary near term objective is to complete and demonstrate Upper Tier design and continue acquisition for Long Lead Initial Lot Production (ILP) with first unit delivery in FY 2016.

Iron Dome (ID)(MD83):

Iron Dome is a mobile all-weather air defense system developed by Rafael Advanced Defense Systems. The system is designed to intercept and destroy short-range rockets and artillery shells whose trajectory would take them to a populated area.

FY 2014 funding is for non-recurring engineering costs in connection with the establishment of a capacity for co-production in the United States. Industry of the United States shall produce parts and components for the Iron Dome short-range rocket defense program. Congressional language also states "That funds made available

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<b>Appropriation/Budget Activity</b> 0400: <i>Research, Development, Test &amp; Evaluation, Defense-Wide I BA 4: Advanced Component Development &amp; Prototypes (ACD&amp;P)</i>	<b>R-1 Program Element (Number/Name)</b> PE 0603913C / <i>Israeli Cooperative Programs</i>
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under this provision for production of missiles and missile components may be transferred to appropriations available for the procurement of weapons and equipment, to be merged with and to be available for the same time period and the same purposes as the appropriation to which transferred: Provided further, That the transfer authority provided under this provision is in addition to any other transfer authority contained in this Act."

**Israeli Arrow Weapon System (AWS)(MD26):**

The Arrow System Improvement Program (ASIP) includes block upgrades to the Arrow Weapon System that enhances capabilities against more stressing evolving medium range threats by increasing the total defended area by approximately 50 percent. ASIP elements include the Arrow-2 missile and launcher, Citron Tree Battle Management Center (BMC), Green Pine (GP) and Super Green Pine (SGP) Radars, and the Hazelnut Tree Launcher Control Center (LCC). Also included is the integration of Block 5 assets which include the Arrow-3 missile and launcher. Arrow Block 5, under the ASIP agreement will also incorporate a Long Range Detection suite that consists of an unmanned aerial vehicle Airborne Early Warning System (ABEWS) and a S-Band Silver Oak radar for increased sensor range, early detection and enhanced raid size capacity. The program also includes the continued development of Arrow's interoperability with U.S. Ballistic Missile Defense Systems (BMDS). Related activities include the Israeli Test Bed (ITB) and the Israeli Systems Architecture and Integration (ISA&I) study that assesses requirements and growth paths for the 2025 Israel Missile Defense Architecture.

**Short Range Ballistic Missile Defense (SRBMD)(MD34):**

SRBMD, also known as The David's Sling Weapon System (DSWS), is designed to counter short range rockets and missiles and will be integrated into the Israeli Missile Defense Architecture adding another layer of defense to the current Arrow System. Block 1 capability will enhance the short range rocket and missile defense capability. Block 2 will add capability to defend against medium range and cruise missiles. Block 3 will provide robust defense capability and add significant detection capability to the Israeli Air Defense Architecture The David's Sling Weapon System (DSWS) includes the Stunner Interceptor, Missile Firing Unit (MFU), Multi-Mission Radar (MMR), Launch Site Controller (LSC) and the Golden Almond Battle Management Center (BMC). The near term objectives are completion of Block 1 development, demonstrate system capability and flight test, and procure material of Initial Lot Production (ILP) utilizing RDT&E funding and field the system to the Israeli Air Force for first unit delivery in 2015.

<b>B. Program Change Summary (\$ in Millions)</b>	<b><u>FY 2013</u></b>	<b><u>FY 2014</u></b>	<b><u>FY 2015 Base</u></b>	<b><u>FY 2015 OCO</u></b>	<b><u>FY 2015 Total</u></b>
Previous President's Budget	99.836	95.782	96.803	-	96.803
Current President's Budget	246.881	283.782	96.803	-	96.803
Total Adjustments	147.045	188.000	-	-	-
• Congressional General Reductions	-0.355	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	168.900	188.000			
• Congressional Directed Transfers	-	-			
• Reprogrammings	0.054	-			
• SBIR/STTR Transfer	-	-			
• Other Adjustment	-21.554	-	-	-	-

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**Exhibit R-2, RDT&E Budget Item Justification:** PB 2015 Missile Defense Agency **Date:** March 2014

<b>Appropriation/Budget Activity</b> 0400: <i>Research, Development, Test &amp; Evaluation, Defense-Wide</i> / BA 4: <i>Advanced Component Development &amp; Prototypes (ACD&amp;P)</i>	<b>R-1 Program Element (Number/Name)</b> PE 0603913C / <i>Israeli Cooperative Programs</i>
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**Change Summary Explanation**

N/A

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**Exhibit R-2A, RDT&E Project Justification:** PB 2015 Missile Defense Agency **Date:** March 2014

<b>Appropriation/Budget Activity</b> 0400 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0603913C / <i>Israeli Cooperative Programs</i>	<b>Project (Number/Name)</b> MD20 / <i>Israeli Upper Tier</i>
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COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
MD20: <i>Israeli Upper Tier</i>	176.204	68.637	74.707	54.368	-	54.368	55.660	56.773	57.795	59.240	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

# The FY 2015 OCO Request will be submitted at a later date.

**Note**

This project code encompasses the Missile Defense Agency's (MDA) U.S.-Israeli cooperative program for the Israeli Upper Tier Program.

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

This project provides funding for the Upper Tier component of the Arrow Weapon System (AWS) development. The Upper Tier Interceptor will enhance Israel's indigenous capability to defend against short and medium range ballistic missiles by increasing the battle space by a factor of four. The scope of the Upper Tier Program covers interceptor development, testing, material procurement to include initial lot production, and integration of spiral software development for Block 5 AWS. The United States through the cooperative effort gains knowledge and experience of the Israeli Defense Forces operation of a multi-layered defense architecture. This project also includes the procurement of the Silver Sparrow Air-Launched Target which is necessary to validate the performance of the Arrow 3 Missile and related Block 5 spiral development activities.

The Upper-Tier Interceptor Project Agreement was signed in 2010. This agreement states that the project will be jointly managed by the U.S. Missile Defense Agency and the Israeli Missile Defense Organization. The agreement also documents the U.S.-Israeli cost share, in which the development costs will be equitable between the U.S. and Israel.

**B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)**

	FY 2013	FY 2014	FY 2015
<p><b>Title:</b> Upper Tier Interceptor</p> <p style="text-align: right;"><b>Articles:</b></p> <p><b>Description:</b> N/A</p> <p><b>FY 2013 Accomplishments:</b></p> <ul style="list-style-type: none"> <li>-Conducted Arrow-3 Fly-Out #1 which demonstrated the fundamental performance of the Arrow-3 energetics, validating kinematic performance while also collecting data against the new Electro-Optical Seeker.</li> <li>-Conducted 4 Element Level Knowledge Point (KP) demonstrations (35% of KPs completed to date) to provide critical data to assess viability of component design.</li> <li>-Conducted test preparations for second interceptor fly-out test of the Arrow-3 Interceptor.</li> <li>-Completed data reduction and analysis for the first interceptor fly-out test of the Arrow-3 Interceptor.</li> <li>-Conducted algorithm design review for Interceptor fly-out Test #2 to verify requirements.</li> </ul>	<p>68.637</p> <p>-</p>	<p>74.707</p> <p>-</p>	<p>54.368</p> <p>-</p>

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2015 Missile Defense Agency		<b>Date:</b> March 2014
<b>Appropriation/Budget Activity</b> 0400 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0603913C / <i>Israeli Cooperative Programs</i>	<b>Project (Number/Name)</b> MD20 / <i>Israeli Upper Tier</i>

<b>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>
-Conducted Silver Sparrow Long Range Target fly out test.			
<b><i>FY 2014 Plans:</i></b>			
-Conduct Interceptor Fly-out Test #2 of the Arrow-3 Interceptor.			
-Complete data reduction and analysis for the Interceptor Fly-out Test #2 of the Arrow-3 Interceptor.			
-Conduct algorithm design review for Intercept Test Number #1 to verify requirements.			
-Conduct Hardware in the Loop (HWIL) testing to demonstrate electronic optical seeker Knowledge Points.			
-Conduct lab testing to demonstrate discrimination Knowledge Points.			
-Conduct preparation activities for Arrow 3 Intercept Test Number #1.			
-Conduct Arrow-3 Component Production Readiness reviews for Initial Lot Production.			
-Initiate procurement of Initial Lot Production assets.			
<b><i>FY 2015 Plans:</i></b>			
-Conduct Interceptor Intercept Test #1 of the Arrow-3 Interceptor.			
-Conduct 4 Element Level Knowledge Point demonstrations to provide critical data to assess viability of component design.			
-Conduct algorithm design review for Intercept Test Number #2 to verify requirements.			
-Continue procurement of Initial Lot Production assets.			
<b>Accomplishments/Planned Programs Subtotals</b>	68.637	74.707	54.368

**C. Other Program Funding Summary (\$ in Millions)**

N/A

**Remarks**

**D. Acquisition Strategy**

The Upper-Tier Interceptor Project Agreement under the Research, Development, Test and Evaluation (RDT&E) Framework agreement between the U.S. and Israel creates a joint program office to manage this program. Missile Defense Agency (MDA) and the Israeli Ministry of Defense (IMoD) continue to implement management practices that allow for the more effective use of program management tools to ensure risk is adequately managed to include Knowledge Points that assess Israel's development progress. The DoD U.S. Israeli Cooperative Program Office jointly manages the Upper Tier program with IMoD to ensure that all systems are delivered on time, on budget, and meet the needs of the warfighter. The program is equitably funded between the U.S. and Israel. A portion of the Israeli cost share comes from non-financial contributions such as previously completed work prior to joint program initiation. Contracts are awarded by IMoD or MDA dependent on what is most advantageous to the Joint Governments. In regard to the Upper Tier Interceptor, IMoD will contract with Israel Aerospace Industries (IAI). IAI subcontracts with Israeli and U.S. companies.

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2015 Missile Defense Agency		<b>Date:</b> March 2014
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**E. Performance Metrics**

Earned Value Management System (EVMS)

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**Exhibit R-3, RDT&E Project Cost Analysis: PB 2015 Missile Defense Agency** **Date:** March 2014

<b>Appropriation/Budget Activity</b> 0400 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0603913C / <i>Israeli Cooperative Programs</i>	<b>Project (Number/Name)</b> MD20 / <i>Israeli Upper Tier</i>
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<b>Product Development (\$ in Millions)</b>				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Upper Tier Interceptor - Upper Tier Interceptor	C/CPFF	Israel Aerospace Industries (IAI) : Israel	176.204	68.637		74.707	Dec 2013	54.368	Dec 2014	-		54.368	Continuing	Continuing	Continuing
<b>Subtotal</b>			176.204	68.637		74.707		54.368		-		54.368	-	-	-

**Remarks**  
N/A

<b>Support (\$ in Millions)</b>				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
<b>Subtotal</b>			-	-		-		-		-		-	-	-	-

**Remarks**  
N/A

<b>Test and Evaluation (\$ in Millions)</b>				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
<b>Subtotal</b>			-	-		-		-		-		-	-	-	-

**Remarks**  
N/A

<b>Management Services (\$ in Millions)</b>				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
<b>Subtotal</b>			-	-		-		-		-		-	-	-	-

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**Exhibit R-3, RDT&E Project Cost Analysis:** PB 2015 Missile Defense Agency **Date:** March 2014

<b>Appropriation/Budget Activity</b> 0400 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0603913C / <i>Israeli Cooperative Programs</i>	<b>Project (Number/Name)</b> MD20 / <i>Israeli Upper Tier</i>
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<b>Management Services (\$ in Millions)</b>				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			

**Remarks**  
N/A

	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total	Cost To Complete	Total Cost	Target Value of Contract
<b>Project Cost Totals</b>	176.204	68.637	74.707	54.368	-	54.368	-	-	-

**Remarks**  
Contract cost reflect U.S. contribution only. Funding in the All Prior Years column represents a summary of Prior Years Total Costs for active contracts, Military Interdepartmental Purchase Requests, and civilian salaries on the R-3.

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<b>Exhibit R-4, RDT&amp;E Schedule Profile: PB 2015 Missile Defense Agency</b>		<b>Date:</b> March 2014
<b>Appropriation/Budget Activity</b> 0400 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0603913C / <i>Israeli Cooperative Programs</i>	<b>Project (Number/Name)</b> MD20 / <i>Israeli Upper Tier</i>

Significant Event Complete ▲    Milestone Decision Complete ★    Element Test Complete ◆    System Level Test Complete ●    Complete Activity ✦  
 Significant Event Planned △    Milestone Decision Planned ☆    Element Test Planned ◇    System Level Test Planned ○    Planned Activity ✧

	FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Israeli Cooperative Intercept Flight Test - FY 2013	✦	✦	✦	✦																								
Complete Data Reduction and Analysis of Fly-Out	✦	✦	✦	✦																								
Arrow-3 Production Readiness Review (PRR)	✦	✦	✦	✦																								
Conduct Hardware in the Loop (HWIL) Testing					✦	✦	✦	✦																				
Arrow-3 Component Production Readiness Reviews for Initial Lot Production					✦	✦	✦	✦																				
Israeli Cooperative Arrow 3 Interceptor Flight Test #2 - FY 2014					✦	✦	✦	✦																				
Israeli Cooperative Arrow 3 Intercept Test #1- FY 2015									✦	✦	✦	✦																
Israeli Cooperative Arrow 3 Intercept Test #2- FY 2016													✦	✦	✦	✦												
Israeli Cooperative Arrow 3 Intercept Test #3- FY 2017																	✦	✦	✦	✦								
Israeli Cooperative Arrow 3 Intercept Test #4- FY 2018																					✦	✦	✦	✦				
Israeli Cooperative Arrow 3 Intercept Test #5- FY 2019																									✦	✦	✦	✦

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2015 Missile Defense Agency		<b>Date:</b> March 2014
<b>Appropriation/Budget Activity</b> 0400 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0603913C / <i>Israeli Cooperative Programs</i>	<b>Project (Number/Name)</b> MD20 / <i>Israeli Upper Tier</i>

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Israeli Cooperative Intercept Flight Test - FY 2013	1	2013	4	2013
Complete Data Reduction and Analysis of Fly-Out	1	2013	4	2013
Arrow-3 Production Readiness Review (PRR)	1	2013	4	2013
Conduct Hardware in the Loop (HWIL) Testing	1	2014	4	2014
Arrow-3 Component Production Readiness Reviews for Initial Lot Production	1	2014	4	2014
Israeli Cooperative Arrow 3 Interceptor Flight Test #2 - FY 2014	1	2014	4	2014
Israeli Cooperative Arrow 3 Intercept Test #1- FY 2015	1	2015	4	2015
Israeli Cooperative Arrow 3 Intercept Test #2- FY 2016	1	2016	4	2016
Israeli Cooperative Arrow 3 Intercept Test #3- FY 2017	1	2017	4	2017
Israeli Cooperative Arrow 3 Intercept Test #4- FY 2018	1	2018	4	2018
Israeli Cooperative Arrow 3 Intercept Test #5- FY 2019	1	2019	4	2019

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**Exhibit R-2A, RDT&E Project Justification:** PB 2015 Missile Defense Agency **Date:** March 2014

<b>Appropriation/Budget Activity</b> 0400 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0603913C / <i>Israeli Cooperative Programs</i>	<b>Project (Number/Name)</b> MD26 / <i>Israeli ARROW Program</i>
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COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
MD26: <i>Israeli ARROW Program</i>	164.178	40.753	44.363	10.701	-	10.701	11.142	11.365	11.570	11.859	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

# The FY 2015 OCO Request will be submitted at a later date.

**Note**  
N/A

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

This project includes funding for the Arrow Weapon Improvement System (ASIP), Israeli Test Bed (ITB) and the Israeli Systems Architecture and Integration (ISA&I).

The Arrow Weapon System (AWS) continues development of Block 4. Also included is the integration of Block 5 assets which consists of the Arrow-3 missile, launcher and the Long Range Detection Suite (LRDS). The LRDS consists of an unmanned aerial vehicle Airborne Early Warning System (ABEWS) and an S-Band Silver Oak radar for increased sensor range and early detection and enhanced salvo engagement capability. The AWS provides Israel an indigenous capability to defend against short and medium range ballistic missiles. The ASIP effort will enhance the performance of the AWS to defeat longer-range and more robust ballistic missile threats expected to be introduced in the Middle East in the near future. ASIP elements include the Arrow-2 missile and launcher, Citron Tree Battle Management Center (BMC), Green Pine (GP) and Super Green Pine (SGP) Radars, and the Hazelnut Tree Launcher Control Center (LCC). The ASIP also ensures AWS interoperability via Joint Tactical Information Data System (JTIDS) Link-16 common communication architecture with the U.S. Ballistic Missile Defense System elements such as Terminal High Altitude Area Defense (THAAD), AEGIS, Command, Control, Battle Management and Communications (C2BMC), Army Navy/Transportable Radar Surveillance and Control (AN/TPY-2), and Phased Array Tracking Intercept of Target (PATRIOT) through ground tests, flight tests, and operational exercises.

The Israeli Test Bed (ITB) provides experiments to evaluate Human-In-The-Loop (HIL) battle management. Israeli Systems Architecture and Integration (ISA&I) conducts studies to assess Israel's future 2025 Missile Defense Architecture. The ITB and ISA&I efforts will continue to support AWS development as well as to define future missile defense architectures and growth paths.

**B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)**

	FY 2013	FY 2014	FY 2015
<b>Title:</b> Arrow System Improvement Program	34.391	38.001	4.339
<b>Articles:</b>	-	-	-
<b>Description:</b> N/A			
<b>FY 2013 Accomplishments:</b>			
-Completed data reduction and analysis for flight test in Israel to validate models and simulations.			
-Conducted interoperability Combatant Command (COCOM) Exercise test with European Command (EUCOM).			

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<b>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</b>		<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>
<p>-Conducted Block 5 Preliminary Design Review.</p> <p>-Fielded Block 4.1 and Super Green Pine with improved Discrimination capability to the Israeli Air Force.</p> <p>-Conducted Silver Sparrow Target Flight Test to further validate the capabilities of the Super Green Pine and Green Pine discrimination and the new target in preparation for future Arrow-2 and Arrow-3 intercept tests.</p> <p><b>FY 2014 Plans:</b></p> <p>-Conduct Block 4.2 Critical Design Review.</p> <p>-Conduct Juniper Cobra 14 interoperability COCOM Exercise test with EUCOM</p> <p>-Conduct Intercept Test with improved discrimination capability to verify Block 4.1.</p> <p>-Continue Long Range Detection Suite Development</p> <p>-Continue Block 5 Arrow Weapon System Integration</p> <p><b>FY 2015 Plans:</b></p> <p>-Continue Block 5 Arrow Weapon System integration.</p>				
<p><b>Title:</b> Israeli Test Bed (ITB)</p> <p><b>Description:</b> N/A</p> <p><b>FY 2013 Accomplishments:</b></p> <p>-Conducted Human in the Loop (HIL) experiment on regional defense concepts.</p> <p>-Conducted HIL experiment Arrow 2/3 and related Block 5 Integration including integration of external sensors and battle management.</p> <p><b>FY 2014 Plans:</b></p> <p>-Conduct HIL experiment with warfighters to further define Techniques, Tactics and Procedures (TTPs) and CONOPS</p> <p>-Conduct exercise with warfighters to further refine TTPs and Concept of Operations (CONOPS).</p> <p><b>FY 2015 Plans:</b></p> <p>-Conduct HIL experiment with warfighters to integrate David's Sling Weapon System (DSWS) and Iron Dome into Lower Tier Techniques, Tactics and Procedures (TTPs) and CONOPS.</p> <p>-Conduct HIL experiment with warfighters to integrate Block 5 Arrow Weapon System Techniques, Tactics and Procedures (TTPs) and CONOPS.</p> <p>-Conduct Austere Challenge 15 interoperability test</p>		<p><b>Articles:</b></p> <p>3.535</p> <p>-</p>	<p>3.535</p> <p>-</p>	<p>3.535</p> <p>-</p>
<p><b>Title:</b> Israeli Systems Architecture and Integration (ISA&amp;I)</p>		<p><b>Articles:</b></p> <p>2.827</p> <p>-</p>	<p>2.827</p> <p>-</p>	<p>2.827</p> <p>-</p>

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2015 Missile Defense Agency		<b>Date:</b> March 2014
<b>Appropriation/Budget Activity</b> 0400 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0603913C / <i>Israeli Cooperative Programs</i>	<b>Project (Number/Name)</b> MD26 / <i>Israeli ARROW Program</i>

<b>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>
<p><b>Description:</b> N/A</p> <p><b>FY 2013 Accomplishments:</b> -Continued to develop U.S.-Israeli operational exercise design and assessment, and interoperability special studies on regional threats and growth path options.</p> <p><b>FY 2014 Plans:</b> -Conduct studies and analysis to identify the preferred missile defense architecture and reference threat for 10-15 year future epoch and interoperability special studies on regional threats and growth path options.</p> <p><b>FY 2015 Plans:</b> - Conduct studies and analysis to identify the preferred missile defense architecture and reference threat for 10-15 year future epoch and interoperability special studies on regional threats and growth path options.</p>			
<b>Accomplishments/Planned Programs Subtotals</b>	40.753	44.363	10.701

**C. Other Program Funding Summary (\$ in Millions)**

N/A

**Remarks**

**D. Acquisition Strategy**

The DoD U.S. Israeli Cooperative Program Office jointly manages the Arrow Program with Israel Ministry of Defense (IMoD) to ensure that all systems are delivered with quality on time, on budget, and meet the needs of the warfighter. The program funding is equitably funded between the U.S. and Israel with Israel providing matching contributions. However, a portion of the Israeli cost share comes from non-financial contributions such as previously completed work prior to joint program initiation. Contracts are awarded by IMoD or MDA dependent on what is most advantageous to the Joint Governments. In regard to Arrow System Improvement Program (ASIP), IMoD contracts on behalf of U.S. government with Israel Aerospace Industries (IAI). IAI subcontracts with Israeli and U.S. companies. For the Israeli Test Bed, the Missile Defense Agency (MDA) contracts directly with Elbit Systems, Ltd. while IMoD provides an equitable share of the funding to the U.S. Finally, MDA contracts directly with WALES, Ltd for the Israeli System Architecture and Integration program.

**E. Performance Metrics**

N/A

**UNCLASSIFIED**

**Exhibit R-3, RDT&E Project Cost Analysis: PB 2015 Missile Defense Agency** **Date:** March 2014

<b>Appropriation/Budget Activity</b> 0400 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0603913C / <i>Israeli Cooperative Programs</i>	<b>Project (Number/Name)</b> MD26 / <i>Israeli ARROW Program</i>
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<b>Product Development (\$ in Millions)</b>				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Arrow System Improvement Program - Arrow System Improvement Program (ASIP)	C/CPFF	Israel Aerospace Industries (IAI) : Israel	141.460	34.391		38.001	Dec 2013	4.339	Dec 2014	-		4.339	Continuing	Continuing	Continuing
Israeli Test Bed (ITB) - Israeli Test Bed	C/FFP	Elbit Systems : Israel	14.140	3.535		3.535	Oct 2013	3.535	Oct 2014	-		3.535	Continuing	Continuing	Continuing
Israeli Systems Architecture and Integration (ISA&I) - ISA&I	C/FFP	Wales LTD : Israel	8.578	2.827		2.827	Oct 2013	2.827	Oct 2014	-		2.827	Continuing	Continuing	Continuing
<b>Subtotal</b>			164.178	40.753		44.363		10.701		-		10.701	-	-	-

**Remarks**  
N/A

<b>Support (\$ in Millions)</b>				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
<b>Subtotal</b>			-	-		-		-		-		-	-	-	-

**Remarks**  
N/A

<b>Test and Evaluation (\$ in Millions)</b>				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
<b>Subtotal</b>			-	-		-		-		-		-	-	-	-

**Remarks**  
N/A

**UNCLASSIFIED**

**Exhibit R-3, RDT&E Project Cost Analysis:** PB 2015 Missile Defense Agency **Date:** March 2014

<b>Appropriation/Budget Activity</b> 0400 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0603913C / <i>Israeli Cooperative Programs</i>	<b>Project (Number/Name)</b> MD26 / <i>Israeli ARROW Program</i>
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<b>Management Services (\$ in Millions)</b>				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
<b>Subtotal</b>			-	-		-		-		-		-	-	-	-

**Remarks**  
N/A

	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total	Cost To Complete	Total Cost	Target Value of Contract
<b>Project Cost Totals</b>	164.178	40.753	44.363	10.701	-	10.701	-	-	-

**Remarks**  
Contract cost reflect U.S. contribution only.

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<b>Exhibit R-4, RDT&amp;E Schedule Profile: PB 2015 Missile Defense Agency</b>		<b>Date:</b> March 2014
<b>Appropriation/Budget Activity</b> 0400 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0603913C / <i>Israeli Cooperative Programs</i>	<b>Project (Number/Name)</b> MD26 / <i>Israeli ARROW Program</i>

Significant Event Complete ▲    Milestone Decision Complete ★    Element Test Complete ◆    System Level Test Complete ●    Complete Activity ✦  
 Significant Event Planned △    Milestone Decision Planned ☆    Element Test Planned ◇    System Level Test Planned ○    Planned Activity ✧

	FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Three Israeli Test Bed Experiments FY 2013	✦	✦	✦	✦																								
Israeli Test Bed Exercise FY 2013	✦	✦	✦	✦																								
Israeli Test Bed Human in the Loop Experiment with Warfighter					✧	✧	✧	✧																				
Intercept Test with Arrow 2					✧	✧	✧	✧																				
Israeli Test Bed Exercise with Warfighter					✧	✧	✧	✧																				
Israeli Test Bed Exercise to include Ground Test (GT) Support FY 2015									✧	✧	✧	✧																
Israeli Test Bed Experiments FY 2015									✧	✧	✧	✧																
Israeli Test Bed Experiments FY 2016													✧	✧	✧	✧												
Israeli Test Bed Exercise to include Ground Test (GT) Support FY 2016													✧	✧	✧	✧												
Israeli Test Bed Exercise to include Ground Test (GT) Support FY 2017																	✧	✧	✧	✧								
Israeli Test Bed Experiments FY 2017																	✧	✧	✧	✧								
Israeli Test Bed Exercise to include Ground Test (GT) Support FY 2018																					✧	✧	✧	✧				
Israeli Test Bed Experiments FY2018																					✧	✧	✧	✧				
Israeli Test Bed Exercise to include Ground Test (GT) Support FY 2019																									✧	✧	✧	✧
Israeli Test Bed Experiments FY2019																									✧	✧	✧	✧

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2015 Missile Defense Agency		<b>Date:</b> March 2014
<b>Appropriation/Budget Activity</b> 0400 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0603913C / <i>Israeli Cooperative Programs</i>	<b>Project (Number/Name)</b> MD26 / <i>Israeli ARROW Program</i>

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Three Israeli Test Bed Experiments FY 2013	1	2013	4	2013
Israeli Test Bed Exercise FY 2013	1	2013	4	2013
Israeli Test Bed Human in the Loop Experiment with Warfighter	1	2014	4	2014
Intercept Test with Arrow 2	1	2014	4	2014
Israeli Test Bed Exercise with Warfighter	1	2014	4	2014
Israeli Test Bed Exercise to include Ground Test (GT) Support FY 2015	1	2015	4	2015
Israeli Test Bed Experiments FY 2015	1	2015	4	2015
Israeli Test Bed Experiments FY 2016	1	2016	4	2016
Israeli Test Bed Exercise to include Ground Test (GT) Support FY 2016	1	2016	4	2016
Israeli Test Bed Exercise to include Ground Test (GT) Support FY 2017	1	2017	4	2017
Israeli Test Bed Experiments FY 2017	1	2017	4	2017
Israeli Test Bed Exercise to include Ground Test (GT) Support FY 2018	1	2018	4	2018
Israeli Test Bed Experiments FY2018	1	2018	4	2018
Israeli Test Bed Exercise to include Ground Test (GT) Support FY 2019	1	2019	4	2019
Israeli Test Bed Experiments FY2019	1	2019	4	2019

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2015 Missile Defense Agency										<b>Date:</b> March 2014		
<b>Appropriation/Budget Activity</b> 0400 / 4					<b>R-1 Program Element (Number/Name)</b> PE 0603913C / <i>Israeli Cooperative Programs</i>				<b>Project (Number/Name)</b> MD34 / <i>Short Range Ballistic Missile Defense (SRBMD)</i>			
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015 Base</b>	<b>FY 2015 OCO #</b>	<b>FY 2015 Total</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
MD34: <i>Short Range Ballistic Missile Defense (SRBMD)</i>	267.072	137.491	149.712	31.734	-	31.734	37.138	37.882	38.564	39.528	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

# The FY 2015 OCO Request will be submitted at a later date.

**Note**

Funding in the All Prior Years column represents a summary of Prior Years Total Costs for active contracts, Military Interdepartmental Purchase Requests, and civilian salaries on the R-3.

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

The 2006 summer conflict between Israel and Hezbollah underscored the strategic effect of short-range, inexpensive ballistic missile attacks on civilian populations. The goal of the Israeli Short Range Ballistic Missile Defense (SRBMD) program is to provide an affordable SRBM and large caliber rocket defense capability. In March 2005 the U.S. and Israel initiated a joint feasibility study of a low-cost SRBMD capability that will complement the existing Arrow Weapon System. The David's Sling Weapon System (DSWS) was selected in May of 2006. The current Program Agreement for Block 1 utilizes RDT&E funding to procure material for Initial Lot Production (ILP). Block 1 will provide capability against large caliber rockets and short range ballistic missiles. The DSWS is comprised of the Stunner Interceptor, Golden Almond Battle Management Center, the Multi-Mission Radar, Launch Site Controller and the Missile Firing Unit.

Under the U.S.-Israeli Project Agreement signed in September 2008. The DSWS Program is jointly managed by the U.S. Missile Defense Agency and the Israeli Missile Defense Organization. Responsibilities and cost share are specified in the Project Agreement. Development costs are equitably shared between the U.S. and Israel.

**B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)**

	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>
<b>Title:</b> SRBMD Program	137.491	149.712	31.734
<b>Articles:</b>	-	-	-
<b>Description:</b> N/A			
<b>FY 2013 Accomplishments:</b>			
-Completed David's Sling Test-1 (DST-1) Flight Test.			
-Completed Radar Field Test #2.			
-Completed data analysis of intercept test to validate Block 1 functionality.			
-Completed Test Events for 2 Knowledge Points (33% of KPs completed to date) which provide critical data to assess viability of subsystem and system design and intercept cost.			
-Continued Block 2 Development which expands the DSWS threat set.			

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2015 Missile Defense Agency		<b>Date:</b> March 2014		
<b>Appropriation/Budget Activity</b> 0400 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0603913C / <i>Israeli Cooperative Programs</i>	<b>Project (Number/Name)</b> MD34 / <i>Short Range Ballistic Missile Defense (SRBMD)</i>		
<b>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</b>		<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>
<ul style="list-style-type: none"> <li>-Continued Block 3 Development which enables the engagement of an expanded threat set.</li> <li>-Completed 3 Rocket Pulse Motor (RPM) ground testing.</li> <li>-Completed critical design review of RF seeker.</li> <li>-Delivered the first Missile Fire Unit.</li> <li>-Delivered the second Multi Mission Radar.</li> <li>-Delivered the first launch site controller.</li> <li>-Completed missile canister validation in Safe Separation Test 3 (SST-3).</li> <li>-Completed production readiness review of the booster assembly.</li> <li>-Completed production readiness review of the guidance electronic unit.</li> <li>-Completed production readiness review of the stunner ignition safety device.</li> <li>-Completed production readiness review of the detonation cord and manifold.</li> <li>-Completed production readiness review of the booster ignition safety device.</li> </ul> <p><b>FY 2014 Plans:</b></p> <ul style="list-style-type: none"> <li>-Conduct Radar Field Test #3.</li> <li>-Conduct ground test and simulations to validate missile and system performance to complete 4 Knowledge points and provide data to assess subsystem and system design robustness.</li> <li>-Complete production readiness review of the David's Sling Weapon System Sub-Components.</li> <li>-Conduct 1 Block One system intercept test with production representative interceptor to validate the Block 1 system performance.</li> <li>-Complete Initial Lot Production (ILP) delivery of first Battle Management Center.</li> <li>-Complete Block 2 System Preliminary Design Review (PDR).</li> </ul> <p><b>FY 2015 Plans:</b></p> <ul style="list-style-type: none"> <li>-Complete production readiness review of the David's Sling Weapon System Sub-Components.</li> <li>-Deliver Initial Lot Production (ILP) Interceptors to the Israeli Air Force.</li> <li>-Deliver Battle Management and Sensor capability to the Israeli Air Force.</li> <li>-Conduct 1 Block One system intercept test with production representative interceptor to validate the Block 1 system performance.</li> </ul>				
<b>Accomplishments/Planned Programs Subtotals</b>		137.491	149.712	31.734
<b>C. Other Program Funding Summary (\$ in Millions)</b>				
N/A				
<b>Remarks</b>				

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2015 Missile Defense Agency		<b>Date:</b> March 2014
<b>Appropriation/Budget Activity</b> 0400 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0603913C / <i>Israeli Cooperative Programs</i>	<b>Project (Number/Name)</b> MD34 / <i>Short Range Ballistic Missile Defense (SRBMD)</i>

**D. Acquisition Strategy**

The Short Range Ballistic Missile Defense (SRBMD) Project Agreement under the Research, Development, Test and Evaluation (RDT&E) Framework agreement between the U.S. and Israel creates a joint program office to manage this program. Missile Defense Agency (MDA) and the Israeli Ministry of Defense (IMoD) continue to implement management practices that allow for the more effective use of program management tools to ensure risk is adequately managed to include Knowledge Points that assess Israel's development progress. The DoD U.S. Israeli Cooperative Program Office jointly manages the SRBMD program with IMoD to ensure that all systems are delivered on time, on budget, and meet the needs of the warfighter. The program is equitably funded between the U.S. and Israel. A portion of the Israeli cost share comes from non-financial contributions such as previously completed work prior to joint program initiation. Contracts are awarded by IMoD or MDA dependent on what is most advantageous to the Joint Governments. For the Stunner Interceptor, Rafael Advanced Systems (an Israeli company), subcontracts to Raytheon Missile Systems for Stunner interceptor components.

**E. Performance Metrics**

Earned Value Management System (EVMS)

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<b>Exhibit R-3, RDT&amp;E Project Cost Analysis: PB 2015 Missile Defense Agency</b>												<b>Date:</b> March 2014				
<b>Appropriation/Budget Activity</b> 0400 / 4				<b>R-1 Program Element (Number/Name)</b> PE 0603913C / Israeli Cooperative Programs				<b>Project (Number/Name)</b> MD34 / Short Range Ballistic Missile Defense (SRBMD)								
<b>Product Development (\$ in Millions)</b>				<b>FY 2013</b>		<b>FY 2014</b>		<b>FY 2015 Base</b>		<b>FY 2015 OCO</b>		<b>FY 2015 Total</b>				
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Prior Years</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>	
SRBMD Program - SRBMD Program	C/CPFF	Rafael : Israel	267.072	137.491		149.712	Dec 2013	31.734	Dec 2014	-		31.734	Continuing	Continuing	Continuing	
<b>Subtotal</b>			267.072	137.491		149.712		31.734		-		31.734	-	-	-	
<b>Remarks</b> N/A																
<b>Support (\$ in Millions)</b>				<b>FY 2013</b>		<b>FY 2014</b>		<b>FY 2015 Base</b>		<b>FY 2015 OCO</b>		<b>FY 2015 Total</b>				
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Prior Years</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>	
<b>Subtotal</b>			-	-		-		-		-		-	-	-	-	
<b>Remarks</b> N/A																
<b>Test and Evaluation (\$ in Millions)</b>				<b>FY 2013</b>		<b>FY 2014</b>		<b>FY 2015 Base</b>		<b>FY 2015 OCO</b>		<b>FY 2015 Total</b>				
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Prior Years</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>	
<b>Subtotal</b>			-	-		-		-		-		-	-	-	-	
<b>Remarks</b> N/A																
<b>Management Services (\$ in Millions)</b>				<b>FY 2013</b>		<b>FY 2014</b>		<b>FY 2015 Base</b>		<b>FY 2015 OCO</b>		<b>FY 2015 Total</b>				
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Prior Years</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>	
<b>Subtotal</b>			-	-		-		-		-		-	-	-	-	

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**Exhibit R-3, RDT&E Project Cost Analysis:** PB 2015 Missile Defense Agency **Date:** March 2014

<b>Appropriation/Budget Activity</b> 0400 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0603913C / <i>Israeli Cooperative Programs</i>	<b>Project (Number/Name)</b> MD34 / <i>Short Range Ballistic Missile Defense (SRBMD)</i>
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Management Services (\$ in Millions)				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			

**Remarks**  
N/A

	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total	Cost To Complete	Total Cost	Target Value of Contract
<b>Project Cost Totals</b>	267.072	137.491	149.712	31.734	-	31.734	-	-	-

**Remarks**  
Contract cost reflect U.S. contribution only.

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**Exhibit R-4, RDT&E Schedule Profile: PB 2015 Missile Defense Agency** **Date:** March 2014

<b>Appropriation/Budget Activity</b> 0400 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0603913C / <i>Israeli Cooperative Programs</i>	<b>Project (Number/Name)</b> MD34 / <i>Short Range Ballistic Missile Defense (SRBMD)</i>
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Significant Event Complete ▲    Milestone Decision Complete ★    Element Test Complete ◆    System Level Test Complete ●    Complete Activity ✦  
 Significant Event Planned △    Milestone Decision Planned ☆    Element Test Planned ◇    System Level Test Planned ○    Planned Activity ☆

	FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
System Flight Test #3 FY 2013	✦	✦	✦	✦																								
System Flight Test #4 FY 2013	✦	✦	✦	✦																								
Block 2.0 Critical Design Review	✦	✦	✦	✦																								
System Flight Test #5 FY 2014					✦	✦	✦	✦																				
System Flight Test #6 FY 2015									✦	✦	✦	✦																
System Flight Test #7 FY 2016													✦	✦	✦	✦												
System Flight Test #8 FY 2017																	✦	✦	✦	✦								
System Flight Test #9 FY 2018																					✦	✦	✦	✦				
System Flight Test #10 FY 2019																									✦	✦	✦	✦

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2015 Missile Defense Agency		<b>Date:</b> March 2014
<b>Appropriation/Budget Activity</b> 0400 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0603913C / <i>Israeli Cooperative Programs</i>	<b>Project (Number/Name)</b> MD34 / <i>Short Range Ballistic Missile Defense (SRBMD)</i>

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
System Flight Test #3 FY 2013	1	2013	4	2013
System Flight Test #4 FY 2013	1	2013	4	2013
Block 2.0 Critical Design Review	1	2013	4	2013
System Flight Test #5 FY 2014	1	2014	4	2014
System Flight Test #6 FY 2015	1	2015	4	2015
System Flight Test #7 FY 2016	1	2016	4	2016
System Flight Test #8 FY 2017	1	2017	4	2017
System Flight Test #9 FY 2018	1	2018	4	2018
System Flight Test #10 FY 2019	1	2019	4	2019

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**Exhibit R-2A, RDT&E Project Justification:** PB 2015 Missile Defense Agency **Date:** March 2014

<b>Appropriation/Budget Activity</b> 0400 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0603913C / <i>Israeli Cooperative Programs</i>	<b>Project (Number/Name)</b> MD83 / <i>Iron Dome</i>
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COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
MD83: <i>Iron Dome</i>	-	-	15.000	-	-	-	-	-	-	-	-	15.000
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

# The FY 2015 OCO Request will be submitted at a later date.

**Note**

N/A

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

The Iron Dome defense system was built by Rafael Advanced Systems funded by the Israeli Ministry of Defense (IMoD). Iron Dome was declared operational and initially deployed in March 2011 and successfully intercepted a Grad rocket launched from Gaza in April 2011. In 2011, the United States of America provided \$203M in procurement funds to spur the production and deployment of additional Iron Dome Batteries. In addition to the initial funding, \$70M was provided in 2012 and \$196M was provided in 2013.

**B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)**

	FY 2013	FY 2014	FY 2015
<b>Title:</b> Iron Dome	-	15.000	-
<b>Articles:</b>	-	-	-
<b>Description:</b> N/A			
<b>FY 2013 Accomplishments:</b> N/A			
<b>FY 2014 Plans:</b> - Establish a capacity for co-production in the United States by industry of the United States of parts and components for the Iron Dome short-range rocket defense program			
<b>FY 2015 Plans:</b> N/A			
<b>Accomplishments/Planned Programs Subtotals</b>	-	15.000	-

**C. Other Program Funding Summary (\$ in Millions)**

N/A

**Remarks**

**UNCLASSIFIED**

<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2015 Missile Defense Agency		<b>Date:</b> March 2014
<b>Appropriation/Budget Activity</b> 0400 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0603913C / <i>Israeli Cooperative Programs</i>	<b>Project (Number/Name)</b> MD83 / <i>Iron Dome</i>

**D. Acquisition Strategy**

The Iron Dome project is an agreement between the U.S. and Israel creates a joint program office to manage this program. The DoD U.S. Israeli Cooperative Program Office jointly manages the Iron Dome program with IMoD to ensure that all systems are delivered on time, on budget, and meet the needs of the warfighter.

**E. Performance Metrics**

N/A