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Exhibit R-2, RDT&E Budget Item Justification: PB 2012 Army **DATE:** February 2011

APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 5: <i>Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604622A: <i>Family of Heavy Tactical Vehicles</i>
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COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
Total Program Element	8.072	3.519	5.478	-	5.478	3.591	2.976	2.952	2.937	Continuing	Continuing
659: <i>FAMILY OF HVY TAC VEH</i>	5.538	2.135	-	-	-	-	-	-	-	0.000	7.673
65A: <i>MOVEMENT TRACKING SYSTEM (MTS)</i>	1.309	1.132	1.490	-	1.490	1.597	-	-	-	Continuing	Continuing
E50: <i>TRAILER DEVELOPMENT</i>	1.225	0.252	1.994	-	1.994	-	-	-	-	Continuing	Continuing
VR5: <i>TWV PROTECTION KITS</i>	-	-	1.994	-	1.994	1.994	2.976	2.952	2.937	0.000	12.853

Note

FY10 Funding decreased due to reprogramming of funds.
FY12 Funding increase for Tactical Wheeled Vehicles Protection Kits.

A. Mission Description and Budget Item Justification

This program element aligns system development and demonstration of Heavy Tactical Vehicles with Future Modular Force requirements to support combat and combat support missions. These missions include the following: line haul, local haul, and unit resupply. These trucks transport water, ammunition, and general cargo over all terrain and throughout the battle-space. Funding will also be used for developing the Army's next generation of tactical truck, as part of the Army's Tactical Wheeled Vehicle Modernization Strategy. Funding in Project 65A is for the development of the Movement Tracking System (MTS). Funding in Project E50 supports the continued modernization of the Army's trailer fleets and supports the continuous product improvements, technology insertion, and new capabilities for tactical trailers. Funding in Project VR5 supports periodic, evolutionary upgrade of survivability and crew protection for Heavy Tactical Vehicles as described in the Long Term Protection Strategy.

B. Program Change Summary (\$ in Millions)

	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012 Base</u>	<u>FY 2012 OCO</u>	<u>FY 2012 Total</u>
Previous President's Budget	9.826	3.519	3.454	-	3.454
Current President's Budget	8.072	3.519	5.478	-	5.478
Total Adjustments	-1.754	-	2.024	-	2.024
• Congressional General Reductions		-			
• Congressional Directed Reductions		-			
• Congressional Rescissions	-	-			
• Congressional Adds		-			
• Congressional Directed Transfers		-			
• Reprogrammings	-1.500	-			
• SBIR/STTR Transfer	-0.254	-			
• Adjustments to Budget Years	-	-	2.024	-	2.024

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COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
659: <i>FAMILY OF HVY TAC VEH</i>	5.538	2.135	-	-	-	-	-	-	-	0.000	7.673
Quantity of RDT&E Articles											

Note

Not applicable for this item.

A. Mission Description and Budget Item Justification

Not applicable for this item.

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

	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
<p>Title: Rocket Propelled Grenade (RPG) net optimization between HEMTT A2 and A4.</p> <p align="right">Articles:</p> <p>Description: Rocket Propelled Grenade (RPG) net optimization between HEMTT A2 and A4.</p> <p>FY 2010 Accomplishments: Integrate protection against Rocket Propelled Grenade (RPG) threats for HEMTT vehicles. Adapt proven RPG net technology to meet the protection requirements for HEMTT A4 and HEMTT A2. Integration effort requires panel sizing and attaching basketry with standoff hardware. Leverage TARDEC survivability expertise to perform the integration.</p>	0.383 0	-	-	-	-
<p>Title: HEMTT A3 performance and durability testing.</p> <p align="right">Articles:</p> <p>Description: HEMTT A3 performance and durability testing.</p> <p>FY 2010 Accomplishments: Perform durability and performance testing for direct comparison of the reliability, automotive performance and fuel consumption of the HEMTT A3 electric drive vehicle with the current production HEMTT A4.</p>	0.950 0	-	-	-	-
<p>Title: FHTV Technology Insertion</p> <p align="right">Articles:</p> <p>Description: FHTV Technology Insertion</p>	4.205 0	2.135 0	-	-	-

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
<p><i>FY 2010 Accomplishments:</i> Research and evaluate vehicle technology insertion candidates on HTV vehicle platforms to improve vehicle reliability, maintainability, safety, and efficiency. Incorporate vehicle change through an Engineering Change Proposal (ECP) process into FHTV production vehicles.</p> <p><i>FY 2011 Plans:</i> Continuation of HTV's research and evaluate vehicle technology insertion candidates on HTV vehicle platforms to improve vehicle reliability, maintainability, safety, and efficiency. Incorporate vehicle change through an Engineering Change Proposal (ECP) process into FHTV production vehicles.</p>					
Accomplishments/Planned Programs Subtotals	5.538	2.135	-	-	-

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

<u>Line Item</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012 Base</u>	<u>FY 2012 OCO</u>	<u>FY 2012 Total</u>	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>Cost To Complete</u>	<u>Total Cost</u>
• Family of Heavy Tactical Vehicles: <i>Family of Heavy Tactical Vehicles (FHTV) DA0500</i>	1,402.625	738.418	627.294	47.214	674.508		41.323	39.195	49.826	0.000	3,043.927

D. Acquisition Strategy
The Rocket Propelled Grenade integration will be accomplished within TARDEC and funded via Military Interdepartmental Purchase Request (MIPR). HEMTT A3 test and evaluation will be accomplished at Aberdeen Test Center and funded via MIPR. FHTV Technology insertion will be accomplished as tasks against a pre-existing contract with Osh Kosh Corporation.

E. Performance Metrics
Performance metrics used in the preparation of this justification material may be found in the FY 2010 Army Performance Budget Justification Book, dated May 2010.

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Exhibit R-4, RDT&E Schedule Profile: PB 2012 Army **DATE:** February 2011

APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 5: <i>Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604622A: <i>Family of Heavy Tactical Vehicles</i>	PROJECT 659: <i>FAMILY OF HVY TAC VEH</i>
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	FY 2010				FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016			
	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

Reliability Study and Analysis	██████████
HEMTT A3 Performance and Durability Testing	██

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Exhibit R-4A, RDT&E Schedule Details: PB 2012 Army **DATE:** February 2011

APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 5: <i>Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604622A: <i>Family of Heavy Tactical Vehicles</i>	PROJECT 659: <i>FAMILY OF HVY TAC VEH</i>
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Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Reliability Study and Analysis	4	2010	2	2011
HEMTT A3 Performance and Durability Testing	1	2011	3	2012

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Army								DATE: February 2011			
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 5: <i>Development & Demonstration (SDD)</i>				R-1 ITEM NOMENCLATURE PE 0604622A: <i>Family of Heavy Tactical Vehicles</i>				PROJECT 65A: <i>MOVEMENT TRACKING SYSTEM (MTS)</i>			
COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
65A: <i>MOVEMENT TRACKING SYSTEM (MTS)</i>	1.309	1.132	1.490	-	1.490	1.597	-	-	-	Continuing	Continuing
Quantity of RDT&E Articles											

Note

Testing includes Information Assurance (IAVA), penetration testing, etc.

A. Mission Description and Budget Item Justification

Movement Tracking System (MTS) is a satellite based, asset visibility and situational awareness enabler that assists Combat Support/Combat Service Support (CS/CSS) commanders and their staffs. MTS identifies and tracks the location of vehicles, communicates with vehicle operators, and redirects missions on a worldwide, near real-time basis during peacetime operations and war. MTS provides the capability to link ground level operators conducting missions and commanders/managers that plan, direct, and control operations and allows for continuous CS/CSS asset visibility across the tactical area of operations. FY08/09 funding supported development of block modifications on the MTS. This block modification will develop and test required interfaces to Transportation Coordinator's Automated Information for Movement System (TC AIMS II) (direct electronic interface) and Global Combat Support System-Army (GCSS-Army) (direct electronic interface). FY12 funding continues interface development & testing.

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

	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Title: Movement Tracking System (MTS)	1.171	0.982	0.879	-	0.879
Articles:	0	0			
Description: Funding is provided for the following effort					
FY 2010 Accomplishments: Development of block modifications on the MTS system					
FY 2011 Plans: Continuous improvements to system.					
FY 2012 Base Plans: Will continue to provide improvements to the system					
Title: System Testing	0.138	0.150	0.611	-	0.611
Articles:	0	0			
Description: Funding is provided for the following effort					

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
<i>FY 2010 Accomplishments:</i> Provided system testing for the Movement Tracking System					
<i>FY 2011 Plans:</i> Continued System Testing					
<i>FY 2012 Base Plans:</i> Testing includes Information Assurance (IAVA) testing, penetration testing, etc.					
Accomplishments/Planned Programs Subtotals	1.309	1.132	1.490	-	1.490

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

Line Item	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
• D16103: <i>Movement Tracking System (MTS)</i>	78.377	93.736	55.147	32.000	87.147					Continuing	Continuing

D. Acquisition Strategy

RDTE efforts to support block development approach through a continuous series of overlapping modular development and integration testing to include multiple interface developments in support of follow-on production.

E. Performance Metrics

Performance metrics used in the preparation of this justification material may be found in the FY 2010 Army Performance Budget Justification Book, dated May 2010.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2012 Army **DATE:** February 2011

APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 5: <i>Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604622A: <i>Family of Heavy Tactical Vehicles</i>	PROJECT 65A: <i>MOVEMENT TRACKING SYSTEM (MTS)</i>
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Product Development (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total				
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract	
Software development, engineering, testing, program management	C/FP	Comtech Mobile Datacom Corp: Germantown, MD	12.827	0.982		1.340		-		1.340	Continuing	Continuing	Continuing	
Subtotal			12.827	0.982		1.340		-		1.340				

Remarks
A full and open competition Request for Proposal release is imminent. Comtech Datacom Corporation is the current contractor under a contract extension.

Test and Evaluation (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total				
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract	
Software Testing	TBD	TBD:TBD	2.761	0.150		0.150		-		0.150	Continuing	Continuing	0.000	
Subtotal			2.761	0.150		0.150		-		0.150			0.000	

Remarks
Prototype testing.

	Total Prior Years Cost	FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	15.588	1.132		1.490		-		1.490			

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2012 Army		DATE: February 2011
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	FY 2010				FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016			
	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
MTS Full Deployment																												
Sustainment																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2012 Army		DATE: February 2011
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Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
MTS Full Deployment	3	2013	3	2013
Sustainment	1	2011	3	2016

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COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
E50: <i>TRAILER DEVELOPMENT</i>	1.225	0.252	1.994	-	1.994	-	-	-	-	Continuing	Continuing
Quantity of RDT&E Articles											

A. Mission Description and Budget Item Justification

This program element supports continued modernization of the Army's trailer fleet. The FY 2012 funds support development and integration of emerging state of the art technology improvements and new capabilities. FY 2012 funding will develop, design and build prototype to meet Army operational capability gaps identified by CASCOM, and also will support continued insertion of new technology to the current fleet, including testing. Other on-going technologies being reviewed are corrosion prevention and modularity and transportability enhancements such as improved suspension. Modernized trailers are better able to match the capabilities of today's improved tactical wheeled vehicles and tractors.

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

	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
<p>Title: Program Management</p> <p style="text-align: right;">Articles:</p> <p>Description: Program Management</p> <p>FY 2011 Plans: Funds will provide Program Management to support the system</p>	-	0.252 0	-	-	-
<p>Title: Trailer enhancements.</p> <p style="text-align: right;">Articles:</p> <p>Description: Funding is provided for the following effort.</p> <p>FY 2010 Accomplishments: Trailer enhancements.</p> <p>FY 2012 Base Plans: Semitrailer enhancements to increase loading and off-loading efficiency and increase the range of Engineer Construction Equipment (ECE) that can be transported on the M870A3. Development efforts will focus on modifications to the gooseneck and to the gooseneck/deck interface. Enhancements will leverage data obtained from the Army's operational experience with equipment transporter trailers, as well as the current state-of-the-art in commercial equipment transporter trailer design. Structural impacts and feasibility of hardware modifications necessary to incorporate enhancements will be evaluated using Modeling and Simulation, and will be verified</p>	0.450 0	-	1.994	-	1.994

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
through incorporation into a concept demonstration trailer which will be subjected to a 6,000 mile durability test. Increases in trailer loading efficiency and range of ECE transportable will be evaluated against an unmodified M870A3.					
Title: Mobile Power 30KW system power control unit development project. Description: Funding is provided for the following effort FY 2010 Accomplishments: Mobile Power 30KW system power control unit development project.	0.775 0	-	-	-	-
Articles:					
Accomplishments/Planned Programs Subtotals	1.225	0.252	1.994	-	1.994

C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
• D01500: <i>Semi-Trailer Flatbed 22.5T M871A3</i>	2.390									Continuing	Continuing
• D01600: <i>Semi-Trailer Flatbed 34T M872A4</i>	10.972									Continuing	Continuing

D. Acquisition Strategy
FY12 funds are expected to be executed via contract to Osh Kosh Truck Corporation for design, development and build of system trailer prototypes.

E. Performance Metrics
Performance metrics used in the preparation of this justification material may be found in the FY 2010 Army Performance Budget Justification Book, dated May 2010.

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Exhibit R-4, RDT&E Schedule Profile: PB 2012 Army **DATE:** February 2011

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	FY 2010				FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016			
	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

Design, develop, and build prototype demonstrator trailer	
Development and Integration Trailer	

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Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Design, develop, and build prototype demonstrator trailer	1	2012	4	2012
Development and Integration Trailer	4	2012	2	2013

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COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
VR5: <i>TWV PROTECTION KITS</i>	-	-	1.994	-	1.994	1.994	2.976	2.952	2.937	0.000	12.853
Quantity of RDT&E Articles											

A. Mission Description and Budget Item Justification

This program element supports periodic, evolutionary upgrade of survivability and crew protection for Heavy Tactical Vehicles as described in the Long Term Protection Strategy. The upgrades will leverage from Army Technology Objective's (ATO) survivability and Army Research Laboratory's (ARL) research and development activities to develop and evaluate kits to adapt and anticipate changing threat environments, protection gaps, or improve the operating performance, efficiency, and reliability of HTV systems with protection kits installed by application of weight reduction technology.

B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
<p>Title: Program Management</p> <p>Description: Funding is provided for the following effort</p> <p>FY 2012 Base Plans: Program Management support</p>	-	-	0.200	-	0.200
<p>Title: Design and Build Prototype Kits.</p> <p>Description: Design and build prototype kits Heavy Tactical Vehicle systems.</p> <p>FY 2012 Base Plans: Design and build prototype kits that represent production alternatives in terms of form, fit, and function sufficient to validate the required protection levels and the kit interfaces to the vehicle platform.</p>	-	-	1.594	-	1.594
<p>Title: Test and Evaluation.</p> <p>Description: Funding is provided for the following effort</p> <p>FY 2012 Base Plans: Test and evaluation of Tactical Wheel Vehicle protection kits consist of ballistic evaluations, automotive performance, and durability mileage sufficient to assess kit performance against established vehicle and ballistic requirements. Testing will determine capabilities and limitations of the protection kit as integration onto the vehicle platform.</p>	-	-	0.200	-	0.200
Accomplishments/Planned Programs Subtotals	-	-	1.994	-	1.994

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C. Other Program Funding Summary (\$ in Millions) N/A		
D. Acquisition Strategy FY12 funds are expected to be executed via Military Interdepartmental Purchase Request (MIPRs) to TARDEC and/or Army Research Laboratory (ARL) to support kit development efforts and to government test centers such as Aberdeen Proving Grounds (APG) or Yuma Proving Grounds (YPG) for testing. FY12 funds will produce prototype kits using a pre-existing contract with Osh Kosh Truck Corporation. The prototype kits will be installed and evaluated at a government test center.		
E. Performance Metrics Performance metrics used in the preparation of this justification material may be found in the FY 2010 Army Performance Budget Justification Book, dated May 2010.		

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Exhibit R-4, RDT&E Schedule Profile: PB 2012 Army		DATE: February 2011
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	FY 2010				FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016			
	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
Test and Evaluate Kit																												
Second - Test and Evaluation of Kits																												
Third - Test and Evaluation of Kits																												
Fourth - Test and Evaluation of Kits																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2012 Army		DATE: February 2011
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Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Test and Evaluate Kit	4	2012	1	2013
Second - Test and Evaluation of Kits	4	2013	1	2014
Third - Test and Evaluation of Kits	4	2014	1	2015
Fourth - Test and Evaluation of Kits	4	2015	1	2016