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| <b>Exhibit R-2, RDT&amp;E Budget Item Justification:</b> PB 2016 Army | <b>Date:</b> February 2015 |
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| <b>Appropriation/Budget Activity</b><br>2040: <i>Research, Development, Test &amp; Evaluation, Army / BA 5: System Development &amp; Demonstration (SDD)</i> | <b>R-1 Program Element (Number/Name)</b><br>PE 0604604A / <i>Medium Tactical Vehicles</i> |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|

| COST (\$ in Millions)             | Prior Years | FY 2014 | FY 2015 | FY 2016 Base | FY 2016 OCO | FY 2016 Total | FY 2017 | FY 2018 | FY 2019 | FY 2020 | Cost To Complete | Total Cost |
|-----------------------------------|-------------|---------|---------|--------------|-------------|---------------|---------|---------|---------|---------|------------------|------------|
| Total Program Element             | -           | 2.068   | 0.210   | -            | -           | -             | 0.170   | 0.112   | -       | -       | Continuing       | Continuing |
| H07: <i>Family Of Med Tac Veh</i> | -           | 2.068   | 0.210   | -            | -           | -             | 0.170   | 0.112   | -       | -       | Continuing       | Continuing |

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

This Program Element (PE) supports continued modernization of the Army's medium truck and trailer fleet and the Armored Security Vehicle (ASV).

In the medium fleet, the Family of Medium Tactical Vehicles (FMTV) replaces aging M35 2 1/2-ton trucks, and M809 and M900 Series 5-ton trucks that are beyond their economic useful life of 15-20 years. FMTV fills 2 1/2-ton Light Medium Tactical Vehicle (LMTV) and 5-ton truck Medium Tactical Vehicle (MTV) requirements, and includes companion trailers, performing over 55 percent of the Army's local and line haul, and unit resupply missions, and operates throughout the theater as multi-purpose transportation vehicles in combat, combat support, and combat service support units.

The ASV is an all-wheel drive armored vehicle that provides ballistic protection, overhead protection, and protection against landmines. It is used by the Military Police to perform missions of area security, maneuver, and mobility support.

This PE funds government technical insertion initiatives that will feed into implementation of the Tactical Wheeled Vehicle (TWV) Modernization Strategy and the TWV Armoring Strategy as a bridge to future tactical vehicle efforts. This PE allows the Project Manager (PM) to leverage technology and address capability gaps in performance and reliability as identified by the user community and reported in the field.

The FY16 funding request was reduced for \$0.141 million to account for the availability of prior year execution balances.

| <b>B. Program Change Summary (\$ in Millions)</b> | <b>FY 2014</b> | <b>FY 2015</b> | <b>FY 2016 Base</b> | <b>FY 2016 OCO</b> | <b>FY 2016 Total</b> |
|---------------------------------------------------|----------------|----------------|---------------------|--------------------|----------------------|
| Previous President's Budget                       | 2.139          | 0.210          | 0.282               | -                  | 0.282                |
| Current President's Budget                        | 2.068          | 0.210          | -                   | -                  | -                    |
| Total Adjustments                                 | -0.071         | -              | -0.282              | -                  | -0.282               |
| • Congressional General Reductions                | -              | -              |                     |                    |                      |
| • Congressional Directed Reductions               | -              | -              |                     |                    |                      |
| • Congressional Rescissions                       | -              | -              |                     |                    |                      |
| • Congressional Adds                              | -              | -              |                     |                    |                      |
| • Congressional Directed Transfers                | -              | -              |                     |                    |                      |
| • Reprogrammings                                  | -              | -              |                     |                    |                      |
| • SBIR/STTR Transfer                              | -              | -              |                     |                    |                      |
| • Adjustments to Budget Years                     | -0.071         | -              | -0.282              | -                  | -0.282               |

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| Exhibit R-2A, RDT&E Project Justification: PB 2016 Army |             |         |         |              |                                                                             |               |         |         |                                                      | Date: February 2015 |                  |            |
| Appropriation/Budget Activity<br>2040 / 5               |             |         |         |              | R-1 Program Element (Number/Name)<br>PE 0604604A / Medium Tactical Vehicles |               |         |         | Project (Number/Name)<br>H07 / Family Of Med Tac Veh |                     |                  |            |
| COST (\$ in Millions)                                   | Prior Years | FY 2014 | FY 2015 | FY 2016 Base | FY 2016 OCO                                                                 | FY 2016 Total | FY 2017 | FY 2018 | FY 2019                                              | FY 2020             | Cost To Complete | Total Cost |
| H07: Family Of Med Tac Veh                              | -           | 2.068   | 0.210   | -            | -                                                                           | -             | 0.170   | 0.112   | -                                                    | -                   | Continuing       | Continuing |
| Quantity of RDT&E Articles                              | -           | -       | -       | -            | -                                                                           | -             | -       | -       | -                                                    | -                   |                  |            |

**Note**

Not Applicable.

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

This Program Element (PE) supports continued modernization of the Army's medium truck and trailer fleet and the Armored Security Vehicle (ASV).

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The ASV is an all-wheel drive armored vehicle that provides ballistic protection, overhead protection, and protection against landmines. It is used by the Military Police to perform missions of area security, maneuver, and mobility support.

This PE funds government technical insertion initiatives that will feed into implementation of the Tactical Wheeled Vehicle (TWV) Modernization Strategy and the TWV Armoring Strategy as a bridge to future tactical vehicle efforts. This PE allows the PM to leverage technology and address capability gaps in performance and reliability as identified by the user community and reported in the field. FY17-18 RDT&E funding will be used to continue Technological Evaluation, Testing and Insertion of the FMTV.

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

|                                                                                                                    | <b>FY 2014</b> | <b>FY 2015</b> | <b>FY 2016 Base</b> | <b>FY 2016 OCO</b> | <b>FY 2016 Total</b> |
|--------------------------------------------------------------------------------------------------------------------|----------------|----------------|---------------------|--------------------|----------------------|
| <b>Title:</b> Automotive Technological Evaluation, Testing & Insertion                                             | 0.749          | 0.082          | -                   | -                  | -                    |
| <b>Description:</b> Funding is provided for the following effort                                                   |                |                |                     |                    |                      |
| <b>FY 2014 Accomplishments:</b><br>Continuation with FMTV Automotive Technological Evaluation, Testing & Insertion |                |                |                     |                    |                      |
| <b>FY 2015 Plans:</b><br>Continuation with FMTV Automotive Technological Evaluation, Testing, & Insertion          |                |                |                     |                    |                      |
| <b>Title:</b> Armor Spiral Development                                                                             | 0.613          | -              | -                   | -                  | -                    |

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|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------|-------------------------|-------------------------------------------------------------------------------------------|--------------------------|----------------|----------------|--------------------------------------------------------------------|----------------|-----------------------------|------------------------|--------------------------|
| <b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2016 Army                                                                                                      |                |                |                         |                                                                                           |                          |                |                | <b>Date:</b> February 2015                                         |                |                             |                        |                          |
| <b>Appropriation/Budget Activity</b><br>2040 / 5                                                                                                                        |                |                |                         | <b>R-1 Program Element (Number/Name)</b><br>PE 0604604A / <i>Medium Tactical Vehicles</i> |                          |                |                | <b>Project (Number/Name)</b><br>H07 / <i>Family Of Med Tac Veh</i> |                |                             |                        |                          |
| <b>B. Accomplishments/Planned Programs (\$ in Millions)</b>                                                                                                             |                |                |                         |                                                                                           |                          |                |                | <b>FY 2014</b>                                                     | <b>FY 2015</b> | <b>FY 2016<br/>Base</b>     | <b>FY 2016<br/>OCO</b> | <b>FY 2016<br/>Total</b> |
| <b>Description:</b> Funding is provided for the following effort                                                                                                        |                |                |                         |                                                                                           |                          |                |                |                                                                    |                |                             |                        |                          |
| <b>FY 2014 Accomplishments:</b><br>Improvements to occupant survivability                                                                                               |                |                |                         |                                                                                           |                          |                |                |                                                                    |                |                             |                        |                          |
| <b>Title:</b> Fuel Economy                                                                                                                                              |                |                |                         |                                                                                           |                          |                |                | 0.706                                                              | -              | -                           | -                      | -                        |
| <b>Description:</b> Funding is provided for the following effort                                                                                                        |                |                |                         |                                                                                           |                          |                |                |                                                                    |                |                             |                        |                          |
| <b>FY 2014 Accomplishments:</b><br>Continued Fuel Economy Improvements                                                                                                  |                |                |                         |                                                                                           |                          |                |                |                                                                    |                |                             |                        |                          |
| <b>Title:</b> FMTV Force Protection Improvements                                                                                                                        |                |                |                         |                                                                                           |                          |                |                | -                                                                  | 0.128          | -                           | -                      | -                        |
| <b>Description:</b> Funding provided for the following effort:                                                                                                          |                |                |                         |                                                                                           |                          |                |                |                                                                    |                |                             |                        |                          |
| <b>FY 2015 Plans:</b><br>Improvements to occupant survivability.                                                                                                        |                |                |                         |                                                                                           |                          |                |                |                                                                    |                |                             |                        |                          |
| <b>Accomplishments/Planned Programs Subtotals</b>                                                                                                                       |                |                |                         |                                                                                           |                          |                |                | 2.068                                                              | 0.210          | -                           | -                      | -                        |
| <b>C. Other Program Funding Summary (\$ in Millions)</b>                                                                                                                |                |                |                         |                                                                                           |                          |                |                |                                                                    |                |                             |                        |                          |
| <b>Line Item</b>                                                                                                                                                        | <b>FY 2014</b> | <b>FY 2015</b> | <b>FY 2016<br/>Base</b> | <b>FY 2016<br/>OCO</b>                                                                    | <b>FY 2016<br/>Total</b> | <b>FY 2017</b> | <b>FY 2018</b> | <b>FY 2019</b>                                                     | <b>FY 2020</b> | <b>Cost To<br/>Complete</b> | <b>Total Cost</b>      |                          |
| • OPA 1 D15500: <i>Family of Medium Tactical Vehicles D15500</i>                                                                                                        | 305.650        | 195.624        | 90.040                  | 243.998                                                                                   | 334.038                  | 192.812        | 210.923        | 247.798                                                            | 247.798        | Continuing                  | Continuing             |                          |
| <b>Remarks</b>                                                                                                                                                          |                |                |                         |                                                                                           |                          |                |                |                                                                    |                |                             |                        |                          |
| <b>D. Acquisition Strategy</b><br>FMTV - Technological Evaluation, Testing and Insertion efforts will be accomplished by a Cost Plus Fixed Fee (Level of Effort) basis. |                |                |                         |                                                                                           |                          |                |                |                                                                    |                |                             |                        |                          |
| <b>E. Performance Metrics</b><br>N/A                                                                                                                                    |                |                |                         |                                                                                           |                          |                |                |                                                                    |                |                             |                        |                          |

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| Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 Army |                        |                                         |             |         |            |                                                                                    |            |                 |            |                                                             |            | Date: February 2015 |                  |            |                          |
|--------------------------------------------------------|------------------------|-----------------------------------------|-------------|---------|------------|------------------------------------------------------------------------------------|------------|-----------------|------------|-------------------------------------------------------------|------------|---------------------|------------------|------------|--------------------------|
| Appropriation/Budget Activity<br>2040 / 5              |                        |                                         |             |         |            | R-1 Program Element (Number/Name)<br>PE 0604604A / <i>Medium Tactical Vehicles</i> |            |                 |            | Project (Number/Name)<br>H07 / <i>Family Of Med Tac Veh</i> |            |                     |                  |            |                          |
| Product Development (\$ in Millions)                   |                        |                                         |             | FY 2014 |            | FY 2015                                                                            |            | FY 2016<br>Base |            | FY 2016<br>OCO                                              |            | FY 2016<br>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 |
| FMTV Automotive Technological Evaluation and Insertion | C/CPFF                 | Oshkosh Truck Corporation : Oshkosh, WI | 10.470      | 0.749   | Mar 2014   | -                                                                                  |            | -               |            | -                                                           |            | -                   | Continuing       | Continuing | Continuing               |
| FMTV Armor Spiral Development                          | C/CPFF                 | Oshkosh Truck Corporation : Oshkosh, WI | 4.851       | 0.613   | Mar 2014   | -                                                                                  |            | -               |            | -                                                           |            | -                   | Continuing       | Continuing | Continuing               |
| FMTV Fuel Economy                                      | C/CPFF                 | Oshkosh Truck Corporation : Oshkosh, WI | 1.916       | 0.706   | Mar 2014   | -                                                                                  |            | -               |            | -                                                           |            | -                   | Continuing       | Continuing | Continuing               |
| FMTV Automotive Technological Evaluation and Insertion | C/CPFF                 | TBD : TBD                               | 0.082       | -       |            | 0.082                                                                              |            | -               |            | -                                                           |            | -                   | Continuing       | Continuing | Continuing               |
| FMTV Force Protection Improvements                     | C/CPFF                 | TBD : TBD                               | 0.128       | -       |            | 0.128                                                                              |            | -               |            | -                                                           |            | -                   | Continuing       | Continuing | Continuing               |
| ASV Mission Enhancement Package (MEP)                  | MIPR                   | Various Locations : Various Locations   | 1.844       | -       |            | -                                                                                  |            | -               |            | -                                                           |            | -                   | Continuing       | Continuing | Continuing               |
| Subtotal                                               |                        |                                         | 19.291      | 2.068   |            | 0.210                                                                              |            | -               |            | -                                                           |            | -                   | -                | -          | -                        |
| Test and Evaluation (\$ in Millions)                   |                        |                                         |             | FY 2014 |            | FY 2015                                                                            |            | FY 2016<br>Base |            | FY 2016<br>OCO                                              |            | FY 2016<br>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 |
| FMTV Automotive Technological Evaluation and Insertion | Various                | Various : Various                       | 0.351       | -       |            | -                                                                                  |            | -               |            | -                                                           |            | -                   | Continuing       | Continuing | Continuing               |
| FMTV Armor Spiral Development Testing                  | MIPR                   | TARDEC : Warren, MI                     | 0.319       | -       |            | -                                                                                  |            | -               |            | -                                                           |            | -                   | Continuing       | Continuing | Continuing               |
| FMTV Fuel Economy Testing                              | MIPR                   | TARDEC : Warren, MI                     | 0.319       | -       |            | -                                                                                  |            | -               |            | -                                                           |            | -                   | Continuing       | Continuing | Continuing               |
| Subtotal                                               |                        |                                         | 0.989       | -       |            | -                                                                                  |            | -               |            | -                                                           |            | -                   | -                | -          | -                        |

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| Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 Army |                |         |  |         |                                                                             |                 |  |                |  | Date: February 2015                                  |                     |               |                                |  |
| Appropriation/Budget Activity<br>2040 / 5              |                |         |  |         | R-1 Program Element (Number/Name)<br>PE 0604604A / Medium Tactical Vehicles |                 |  |                |  | Project (Number/Name)<br>H07 / Family Of Med Tac Veh |                     |               |                                |  |
|                                                        | Prior<br>Years | FY 2014 |  | FY 2015 |                                                                             | FY 2016<br>Base |  | FY 2016<br>OCO |  | FY 2016<br>Total                                     | Cost To<br>Complete | Total<br>Cost | Target<br>Value of<br>Contract |  |
| Project Cost Totals                                    | 20.280         | 2.068   |  | 0.210   |                                                                             | -               |  | -              |  | -                                                    | -                   | -             | -                              |  |
| Remarks                                                |                |         |  |         |                                                                             |                 |  |                |  |                                                      |                     |               |                                |  |

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| <b>Exhibit R-4, RDT&amp;E Schedule Profile: PB 2016 Army</b> | <b>Date:</b> February 2015 |
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|                                                  |                                                                                           |                                                                    |
|--------------------------------------------------|-------------------------------------------------------------------------------------------|--------------------------------------------------------------------|
| <b>Appropriation/Budget Activity</b><br>2040 / 5 | <b>R-1 Program Element (Number/Name)</b><br>PE 0604604A / <i>Medium Tactical Vehicles</i> | <b>Project (Number/Name)</b><br>H07 / <i>Family Of Med Tac Veh</i> |
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| Event Name                                    | FY 2014                                  |   |   |   | FY 2015    |   |   |   | FY 2016 |   |   |   | FY 2017 |   |   |   | FY 2018 |   |   |   | FY 2019 |   |   |   | FY 2020 |   |   |   |
|-----------------------------------------------|------------------------------------------|---|---|---|------------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|
|                                               | 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 |
| FMTV Technology Insertion                     | Technology Insertion                     |   |   |   |            |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
|                                               |                                          |   |   |   |            |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| FMTV Armor Technology Insertion               | Technology Insertion                     |   |   |   |            |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
|                                               |                                          |   |   |   |            |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| FMTV Fuel Economy                             | Fuel Economy                             |   |   |   |            |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
|                                               |                                          |   |   |   |            |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| FMTV Force Protection Improvements            |                                          |   |   |   | Force Prot |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
|                                               |                                          |   |   |   |            |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| FMTV Competitive Rebuy & Follow-on Production | Competitive Rebuy & Follow-on Production |   |   |   |            |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
|                                               |                                          |   |   |   |            |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| FMTV FY16-20 Competition                      |                                          |   |   |   |            |   |   |   | FY16-20 |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
|                                               |                                          |   |   |   |            |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |

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| <b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2016 Army |                                                                                           |                                                                    | <b>Date:</b> February 2015 |
| <b>Appropriation/Budget Activity</b><br>2040 / 5              | <b>R-1 Program Element (Number/Name)</b><br>PE 0604604A / <i>Medium Tactical Vehicles</i> | <b>Project (Number/Name)</b><br>H07 / <i>Family Of Med Tac Veh</i> |                            |

Schedule Details

| Events                                        | Start   |      | End     |      |
|-----------------------------------------------|---------|------|---------|------|
|                                               | Quarter | Year | Quarter | Year |
| FMTV Technology Insertion                     | 1       | 2008 | 4       | 2015 |
| FMTV Armor Technology Insertion               | 1       | 2010 | 4       | 2015 |
| FMTV Fuel Economy                             | 1       | 2010 | 4       | 2015 |
| FMTV Force Protection Improvements            | 2       | 2015 | 4       | 2015 |
| FMTV Competitive Rebuy & Follow-on Production | 2       | 2010 | 4       | 2016 |
| FMTV FY16-20 Competition                      | 2       | 2016 | 4       | 2020 |