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| <b>Exhibit P-40, Budget Item Justification</b> | Date: |
|--|-------|

FEBRUARY 2010

|  |  |
|--|--|
| Appropriation Code/Budget Activity/Serial Number:<br>Procurement of Ammunition, Navy and Marine Corps/2/Ammunition | P-1 Item Nomenclature:<br>(150000) DEMOLITION MUNITIONS, ALL TYPES |
|--|--|

|                                   |                                |
|-----------------------------------|--------------------------------|
| Program Element for Code B Items: | Other Related Program Elements |
|-----------------------------------|--------------------------------|

|            | ID Code | FY 2009 | FY 2010 | Base FY 2011 | OCO FY 2011 | Total FY 2011 | FY 2012 | FY 2013 | FY 2014 | FY 2015 | To Complete | Total Program |
|------------|---------|---------|---------|--------------|-------------|---------------|---------|---------|---------|---------|-------------|---------------|
| Proc Qty   |         |         |         |              |             |               |         |         |         |         |             |               |
| Gross Cost | A       | 29.394  | 24.081  | 19.464       | 9.296       | 28.760        | 22.878  | 19.485  | 19.831  | 20.186  |             | 164.615       |
| Reserve    | A       | 0.000   | 0.000   | 0.000        | 0.000       | 0.000         | 0.000   | 0.000   | 0.000   | 0.000   |             | 0.000         |

**Base Appropriations Request:**

The Cap, Blasting Electric MK17 MOD 1-HERO SAFE- (DODIC DWFP) is used for initiating high explosives with a blasting machine or other suitable source of electric power. It is capable of detonating all standard military explosives.

The Charge, Demolition Block M118 2 Pound Pentaerythritol Tetranitrate (PETN) (DODIC M024) is a general-purpose demolition. It is suitable for underwater use and is particularly effective against steel, concrete, and timber. This sheet can be cut to any desired shape and may be quickly applied to irregular and curved surfaces. This charge may be detonated by electric blasting caps, non-electric blasting caps, or detonating cord. Each box of the M118 Demolition Blocks comes with 80 blasting cap holders.

The Charge, Demolition Cratering 40-Pound (DODIC M039) is an alternate to the standard ammonium nitrate cratering charge for the destruction of buildings, structures, and fortifications. The charge is composed of approximately 40-pound of H-6 explosive and a .43-pound A-5 composition booster. H-6 explosive is a highly brisant explosive derived from the HBX family. A semicircular handle is also located on the top of the container for handling the charge or for attaching a line when lowering the charge in a hole.

The Cap, Blasting Non-Electric Inert (DODIC M097) is used in training personnel in the correct procedures for safe handling of non-electric blasting caps. The DODIC M097 is approximately 2.3 inches long and .23 inches in diameter. There are two holes drilled through the cap to signify that the cap is inert. A fuse cavity is located in one end of the blasting cap to receive a time safety fuse. The cap is painted black.

The Cap, Blasting Electric Inert (DODIC M098) is used in training personnel in the correct procedures for safe handling of electric blasting caps. The blasting cap is approximately 2.3 inches long and .23-inches in diameter. There are two lead wires approximately 12 feet in length. There are two holes drilled through the cap to signify that the cap is inert. The cap is painted black.

The Cartridge, Impulse .50 Caliber (DODIC M174) is intended for use in Explosive Ordnance Disposal (EOD) tools and equipment. This cartridge is an electrically initiated gas producing device consisting of a MK1 Mod 2 electric squib containing diazodinitrophenol, potassium chlorate and black powder, and a main charge containing M-10 Single Base Propellant, black powder, and Type 1 Class 1 propellant.

The Charge, Demolition Shaped M3 Series 40-Pound (DODIC M421) is used for penetrating metal, concrete, earth or other materials. This charge consists of approximately 30 lbs. of 50/50 pentolite or 28.3 lbs. of Composition B with a 1.7 lbs. 50/50-pentolite booster. The explosive charge is enclosed in a sheet steel container with a metal cavity liner and a detachable standoff frame assembly. The standoff frame assembly has three legs and is about 15 inches tall.

**Exhibit P-40, Budget Item Justification, Continued**

Date: FEBRUARY 2010

Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition  
 P-1 Item Nomenclature: (150000) DEMOLITION MUNITIONS, ALL TYPES

Program Element for Code B Items: Other Related Program Elements

|            | ID Code | FY 2009 | FY 2010 | Base FY 2011 | OCO FY 2011 | Total FY 2011 | FY 2012 | FY 2013 | FY 2014 | FY 2015 | To Complete | Total Program |
|------------|---------|---------|---------|--------------|-------------|---------------|---------|---------|---------|---------|-------------|---------------|
| Proc Qty   |         |         |         |              |             |               |         |         |         |         |             |               |
| Gross Cost | A       | 29.394  | 24.081  | 19.464       | 9.296       | 28.760        | 22.878  | 19.485  | 19.831  | 20.186  |             | 164.615       |
| Reserve    | A       | 0.000   | 0.000   | 0.000        | 0.000       | 0.000         | 0.000   | 0.000   | 0.000   | 0.000   |             | 0.000         |

The Container, Demolition Charge MK7 Mod 7 (DODIC M483) is used as a form or mold in which plastic explosive can be pressed into a linear charge. The container consists of a mild steel body approximately 6.00 inches long and .75 inches wide. The container has a V-shaped cavity to mold the explosive linear charge. The charge is designed to snap together with other MK7 Mod 7 containers to form a charge of the required length.

The Charge, Assembly Demolition M183 Comp C-4 (DODIC M757) is used by assault demolition teams in general demolition operations such as reduction of small obstacles, cutting, breaching, and cratering. The M183 Charge Assembly consists of 16 M112 Demolition Blocks and 4 M15 Priming Assemblies. Each M112 block is composed of 1-1/4 pounds of Composition C-4. The M15 Priming Assembly is a 5-foot length of detonating cord with two plastic M1 Clips and 2 RDX boosters attached. The boosters, which are about 1/4" in diameter and 2-inches in length contain approximately 13.5 grains of RDX.

Charge Demolition Explosive Sheet, 38 ft (DODIC M980) is used in general demolition as a cutting or breaching charge. M980 permits pinpoint metal cutting with minimum explosive loading. The sheet can be cut to provide the length of charge needed.

The Charge, Demolition Explosive sheet, 9ft (DODIC M986) is used in general demolition as a cutting or breaching charge. M986 permits pinpoint metal cutting with minimum explosive loading. The sheet can be cut to provide the length of charge needed.

The Cutter, High Explosive MK23 Mod 0 (DODIC ML04) is used for cutting or disrupting techniques against ordnance items. The charge consists of a plastic case, stand, and a metal sight. The main charge is 70/30 octol. The charge can be set up for electrical or non-electrical initiation using standard blasting caps.

The Cutter, High Explosive MK24 Mod 0 (DODIC ML05) is used for cutting or disrupting techniques against ordnance items. The charge consists of a plastic case, stand, and a metal sight. The main charge is 70/30 octol. The charge can be set up for electrical or non-electrical initiation using standard blasting caps.

The Charge, Demolition Flexible Linear Shaped 300 Grains Per Foot (DODIC MM24) is designed for fast and reliable cutting of materials. The DODIC MM24 will cut steel up to 0.18-inches thick or aluminum up to 0.39-inches thick. MM24 is a continuous explosive core of CH-6 enclosed in a seamless lead sheath. The charge is shaped in the form of an inverted "V" to concentrate an explosive force in a linear cutting action.

The Charge, Demolition Flexible 20 Gram Pentaerythritol Tetranitrate (PETN) MK140 Mod 0 (DODIC MM30) is intended to be used as an individual charge, or can be used as a booster for other charges. This charge can be used in all applications where demolitions are required.

The Charge, Demolition Flexible Linear Shaped 30 Grains Per Foot (DODIC MM41) is designed for fast and reliable cutting of materials. The DODIC MM41 will cut steel up to 0.06-inches thick or aluminum up to 0.11-inches thick. MM41 is a continuous explosive core of CH-6 enclosed in a seamless lead sheath. The charge is shaped in the form of an inverted "V" to concentrate an explosive force in a linear cutting action.

**Exhibit P-40, Budget Item Justification, Continued** Date:

FEBRUARY 2010

Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition  
 P-1 Item Nomenclature: (150000) DEMOLITION MUNITIONS, ALL TYPES

Program Element for Code B Items: Other Related Program Elements

|            | ID Code | FY 2009 | FY 2010 | Base FY 2011 | OCO FY 2011 | Total FY 2011 | FY 2012 | FY 2013 | FY 2014 | FY 2015 | To Complete | Total Program |
|------------|---------|---------|---------|--------------|-------------|---------------|---------|---------|---------|---------|-------------|---------------|
| Proc Qty   |         |         |         |              |             |               |         |         |         |         |             |               |
| Gross Cost | A       | 29.394  | 24.081  | 19.464       | 9.296       | 28.760        | 22.878  | 19.485  | 19.831  | 20.186  |             | 164.615       |
| Reserve    | A       | 0.000   | 0.000   | 0.000        | 0.000       | 0.000         | 0.000   | 0.000   | 0.000   | 0.000   |             | 0.000         |

The Charge, Demolition Flexible Linear Shaped 40 Grains Per Foot (DODIC MM42) is designed for fast and reliable cutting of materials. The DODIC MM42 will cut steel up to 0.05 inches thick, or aluminum up to 0.14 inches thick. MM42 is a continuous explosive core of CH-6 enclosed in a seamless lead sheath. The charge is shaped in the form of an inverted "V" to concentrate an explosive force in a linear cutting action.

The Charge, Demolition Flexible Linear Shaped 75 Grains Per Foot (DODIC MM44) is designed for fast and reliable cutting of materials. The DODIC MM44 will cut steel up to 0.10-inches thick or aluminum up to 0.16-inches thick. The DODIC MM44 is a continuous explosive core of CH-6 enclosed in a seamless lead sheath. The charge is shaped in the form of an inverted "V" to concentrate an explosive force in a linear cutting action.

The Charge, Demolition Flexible Linear Shaped 125 Grains Per Foot (DODIC MM45) is designed for fast and reliable cutting of materials. The DODIC MM45 will cut steel up to 0.13-inches thick, or aluminum up to 0.21-inches thick. The charge is shaped in the form of an inverted "V" to concentrate an explosive force in a linear cutting action. The charge contains 125 grains per foot of CH-6. The lead sheathing is blue/gray in color and is 6-feet long.

The Charge, Demolition Flexible Linear Shaped 225 Grains Per Foot (DODIC MM46) is designed for fast and reliable cutting of materials. The DODIC MM46 will cut steel up to 0.18-inches thick, or aluminum up to 0.31-inches thick. MM46 is a continuous explosive core of CH-6 enclosed in a seamless lead sheath. The charge is shaped in the form of an inverted "V" to concentrate an explosive force in a linear cutting action.

The Charge, Demolition Flexible Linear Shaped 400 Grains Per Foot (DODIC MM47) is designed for fast and reliable cutting of materials. The DODIC MM47 will cut steel up to 0.20-inches thick or aluminum up to 0.41-inches thick. MM47 is a continuous explosive core of CH-6 enclosed in a seamless lead sheath. The charge is shaped in the form of an inverted "V" to concentrate an explosive force in a linear cutting action.

The Charge, Demolition Flexible Linear Shaped 600 Grains Per Foot (DODIC MM48) is designed for fast and reliable cutting of materials. The DODIC MM48 will cut steel up to 0.27-inches thick or aluminum up to 0.46-inches thick. MM48 is a continuous explosive core of CH-6 enclosed in a seamless lead sheath. The charge is shaped in the form of an inverted "V" to concentrate an explosive force in a linear cutting action.

The Charge, Demolition Low Hazard MK143 Mod 0 600 Grains Per Foot (DODIC MM51) is a continuous explosive core of plastic bonded explosive with a flexible copper-polymer liner. The charge is encased in lightweight olive drab polyethylene foam. The underside of the charge has an adhesive backed tape that adheres to most dry surfaces. This charge contains 600 grains per foot of a commercial plastic bonded explosive.

The Charge, Demolition Low Hazard MK144 Mod 0 1200 Grains Per Foot (DODIC MM52) is a continuous explosive core of plastic bonded explosive with a flexible copper-polymer liner. The charge is encased in lightweight olive drab polyethylene foam. The underside of the charge has an adhesive backed tape that adheres to most dry surfaces. This charge contains 1200 grains per foot of a commercial plastic bonded explosive.

The Charge, Demolition Low Hazard Mk145 Mod 0 2400 Grains Per Foot (DODIC MM53) is a continuous explosive core of plastic-bonded explosive with a flexible copper-polymer liner. The charge is encased in lightweight olive drab polyethylene foam. The underside of the charge has an adhesive backed tape that adheres to most dry surfaces. This charge contains 2400 grains per foot of a commercial plastic bonded explosive.

**Exhibit P-40, Budget Item Justification, Continued**

Date:  
FEBRUARY 2010

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P-1 Item Nomenclature: (150000) DEMOLITION MUNITIONS, ALL TYPES

Program Element for Code B Items: Other Related Program Elements

|            | ID Code | FY 2009 | FY 2010 | Base FY 2011 | OCO FY 2011 | Total FY 2011 | FY 2012 | FY 2013 | FY 2014 | FY 2015 | To Complete | Total Program |
|------------|---------|---------|---------|--------------|-------------|---------------|---------|---------|---------|---------|-------------|---------------|
| Proc Qty   |         |         |         |              |             |               |         |         |         |         |             |               |
| Gross Cost | A       | 29.394  | 24.081  | 19.464       | 9.296       | 28.760        | 22.878  | 19.485  | 19.831  | 20.186  |             | 164.615       |
| Reserve    | A       | 0.000   | 0.000   | 0.000        | 0.000       | 0.000         | 0.000   | 0.000   | 0.000   | 0.000   |             | 0.000         |

The Charge, Demolition Low Hazard Mk149 Mod 0 5400 Grains Per Foot (DODIC MM54) is a continuous explosive core of plastic bonded explosive with a flexible copper-polymer liner. The charge is encased in lightweight olive drab polyethylene foam. The underside of the charge has an adhesive backed tape that adheres to most dry surfaces. This charge contains 5400 grains per foot of a commercial plastic bonded explosive.

The Canine Explosive Scent Kit (DODIC MN01) is composed of different samples of common explosives used to train dogs to detect explosives. The samples are packaged in individual containers. The types of explosives can vary based on the type of training being conducted. These samples may be of dynamite, time-safety fuze, C4, TNT, detonating cord, smokeless powder, and water gel explosive.

The Firing Device, Demolition, Delay type, M147 (DODIC MN11) is intended for use with antipersonnel mines and when setting up booby-traps using demolition charges. The device provides a simple means of initiation of booby-traps. It is electronic and can be set to fire between 5 minutes to 30 days.

The Firing Device, Handheld (Inert) MK 54 MOD 0 (DODIC MN14) consists of two stainless steel cylindrical assemblies connected by a trigger mechanism. A secondary safety pin is inserted through the assemblies. The firing ends of the assemblies are internally threaded to receive the applicable pyrotechnic lead initiator. Each assembly contains a spring-loaded firing pin that can be recocked by the sear lever on the trigger mechanism. The MK 54 MOD 0 is used to initiate the MK23, MK24 and MK25 MODS pyrotechnic lead initiators.

The Detonator, four second delay (DODIC MN50) are used in military demolitions, explosive ordnance disposal, minefield clearing, and special applications. The detonator (DODIC MN50) is a linear signal transmission device designed to transmit an energetic signal through shock tube to a specific detonating output. This detonator is designed to be interoperable with munitions, cap wells, detonating cords, high explosives, and lead in lines.

The Detonator, Non-Electric MK154 (DODIC MN52) is used in place of the M7 Non-Electric Blasting Cap or the M6 Electric Blasting Cap. It is used where a non-electric waterproof application is desired. The system consists of a dual non-fragmenting 100-foot, co-extruded, olive drab, plastic polyethylene pyrotechnic lead (shock tube) containing less than 0.1 grains per foot of HMX with two factory crimped M7 Detonators.

The Booster, Demolition Charge, M152, (DODIC MN69) begin with five grain per foot PETN detonating cord that is figure-eight coiled and integrated to a booster charge containing 13.5 grains of PETN. The assemblies have J-hooks for fast, secure, and reliable connection to detonating cords. Initiation of assemblies is delivered from detonating cord or blasting caps.

**FY11 Overseas Contingency Operations Request (OCO)**

DODIC MM52, \$1.809. Lack of funding to replace training expenditures will further erode the USMC's War Reserve Munitions Requirement (WRMR) and training stockpile and negatively affect our ability to execute another MCO and/or prepare our Marines for war.

DODIC MM52, \$7.487. Lack of funding to replace combat expenditures will further erode the USMC's WRMR stockpile and negatively affect our ability to execute another MCO, if required.





| Exhibit P-5, Cost Analysis                                    |       | Weapon System |  |       | Date:         |         |       |        |          |
|---|-------|---------------|--|-------|---------------|---------|-------|--------|----------|
|   |       |               |  |       | FEBRUARY 2010 |         |       |        |          |
| Appropriation Code/Budget Activity/Serial Number:             |       | ID Code:      | P-1 Line Item Nomenclature:              |       |               |         |       |        |          |
| Procurement of Ammunition, Navy and Marine Corps/2/Ammunition |       | A             | (150000) DEMOLITION MUNITIONS, ALL TYPES |       |               |         |       |        |          |
| WBS COST ELEMENTS   | FY09  |               |  | FY10  |               |         | FY11  |        |          |
|   | Total | Unit          | Total                                    | Unit  | Total         | Unit    | Total | Unit   |          |
|   | Cost  | Qty           | Cost                                     | Qty   | Cost          | Qty     | Cost  | Qty    |          |
| <b>BASELINE</b>   |       |               |  |       |               |         |       |        |          |
| HARDWARE  |       |               |  |       |               |         |       |        |          |
| M024, CHG DEMO BLOCK PETN                                     |       |               |  |       |               |         |       |        |          |
| COMPLETE ROUND  | 0.200 | 3,148         | 63.53                                    | 0.757 | 10,017        | 75.62   | 0.018 | 177    | 99.14    |
| M039, CHARGE, DEMO 40 LB CRATERING                            |       |               |  |       |               |         |       |        |          |
| LOAD, ASSEMBLE & PACK (LAP)                                   | 0.400 | 1,047         | 381.75                                   | 3.462 | 8,176         | 423.47  |       |        |          |
| * COMP D-2 (LB)   | 0.200 | 3,333         | 60.00                                    | 0.313 | 18,805        | 16.64   |       |        |          |
| *COMP B TYPE I GRADE A(LB)                                    | 0.100 | 42,194        | 2.37                                     | 0.724 | 304,767       | 2.37    |       |        |          |
| ALUMINUM POWDER (LB)  | 0.050 | 27,322        | 1.83                                     | 0.194 | 84,295        | 2.30    |       |        |          |
| M097, CAP, BLASTING NON-ELEC INERT                            | 0.400 | 23,001        | 17.39                                    | 0.180 | 22,207        | 8.08    | 0.024 | 3,042  | 7.84     |
| COMPLETE ROUND  |       |               |  |       |               |         |       |        |          |
| M098, CAP, BLASTING ELECTRIC INERT                            |       |               |  |       |               |         |       |        |          |
| COMPLETE ROUND  | 0.500 | 54,764        | 9.13                                     | 0.200 | 21,574        | 9.27    | 0.200 | 21,231 | 9.42     |
| M174, CARTRIDGE, IMPULSE .50 CALIBER                          |       |               |  |       |               |         |       |        |          |
| COMPLETE ROUND  | 0.500 | 29,673        | 16.85                                    |       |               |         |       |        |          |
| M421, CHARGE, DEMO SHAPED 40 LB                               |       |               |  |       |               |         |       |        |          |
| LOAD, ASSEMBLE & PACK (LAP)                                   | 1.350 | 1,756         | 768.60                                   | 0.291 | 212           | 1370.30 | 0.212 | 153    | 1,386.74 |
| *COMP B TYPE I GRADE A(LB)                                    | 0.200 | 86,580        | 2.31                                     | 0.016 | 6,582         | 2.37    | 0.012 | 4,750  | 2.54     |
| COMP A-3 (LB)   | 0.080 | 34,632        | 2.31                                     | 0.001 | 24            | 2.34    | 0.001 | 18     | 2.37     |
| M483, EOD DEVICE, MK 7 MOD 7                                  |       |               |  |       |               |         |       |        |          |
| COMPLETE ROUND  | 0.375 | 11,671        | 32.13                                    |       |               |         |       |        |          |
| M757, CHARGE, ASSEMBLY DEMOLITION                             |       |               |  |       |               |         |       |        |          |
| LOAD, ASSEMBLE & PACK (LAP)                                   |       |               |  | 3.411 | 13,794        | 247.28  |       |        |          |
| COMP C-4 CLASS 3(LB)  |       |               |  | 5.646 | 291,330       | 19.38   |       |        |          |
| M980, CHG, DEMO EXPLOSIVE SHEET 38FT                          |       |               |  |       |               |         |       |        |          |
| LOAD, ASSEMBLE & PACK (LAP)                                   | 0.905 | 67,184        | 13.47                                    | 0.187 | 10,847        | 17.21   | 1.591 | 83,561 | 19.04    |
| M986, CHG, DEMO SHEET, 9FT PETN                               |       |               |  |       |               |         |       |        |          |
| COMPLETE ROUND  | 0.349 | 5,165         | 67.48                                    | 0.358 | 6,132         | 58.43   | 0.382 | 4,090  | 93.40    |
|   |       |               |  |       |               |         |       |        |          |
|   |       |               |  |       |               |         |       |        |          |
|   |       |               |  |       |               |         |       |        |          |
|   |       |               |  |       |               |         |       |        |          |
|   |       |               |  |       |               |         |       |        |          |

| Exhibit P-5, Cost Analysis<br>Continued  |               | Weapon System |               |   | Date:<br>FEBRUARY 2010 |           |               |         |           |
|--|---------------|---------------|---------------|---|------------------------|-----------|---------------|---------|-----------|
| Appropriation Code/Budget Activity/Serial Number:<br>Procurement of Ammunition, Navy and Marine Corps/2/Ammunition |               |               | ID Code:<br>A | P-1 Line Item Nomenclature:<br>(150000) DEMOLITION MUNITIONS, ALL TYPES |                        |           |               |         |           |
| WBS COST ELEMENTS  | FY09          |               |               | FY10  |                        |           | FY11          |         |           |
|  | Total Cost    | Qty           | Unit Cost     | Total Cost  | Qty                    | Unit Cost | Total Cost    | Qty     | Unit Cost |
| <b>BASELINE</b>  |               |               |               |   |                        |           |               |         |           |
| MM52, CHARGE, DEMO FLSC 1200 GR/FT   |               |               |               |   |                        |           |               |         |           |
| COMPLETE ROUND   | 0.893         | 37,130        | 24.05         | 0.400   | 16,632                 | 24.05     | 0.000         | 0       | 0.00      |
| MN52, DETONATOR, NON-ELECTRIC MK154  |               |               |               |   |                        |           |               |         |           |
| COMPLETE ROUND   | 8.236         | 189,988       | 43.35         | 5.091   | 117,439                | 43.35     | 4.776         | 110,173 | 43.35     |
| MN69, BOOSTER, DEMO CHARGE   |               |               |               |   |                        |           |               |         |           |
| COMPLETE ROUND   | 1.000         | 136,054       | 7.35          | 0.400   | 44,296                 | 9.03      | 0.400         | 43,431  | 9.21      |
| <b>Subtotal Baseline</b>   | <b>15.738</b> |               |               | <b>21.631</b>   |                        |           | <b>7.616</b>  |         |           |
| <b>FY11 OCO</b>  |               |               |               |   |                        |           |               |         |           |
| MM52, CHARGE, DEMO FLSC 1200 GR/FT   |               |               |               |   |                        |           |               |         |           |
| COMPLETE ROUND   |               |               |               |   |                        |           | 9.296         | 289,144 | 32.15     |
| <b>Subtotal FY11 OCO</b>   |               |               |               |   |                        |           | <b>9.296</b>  |         |           |
| <b>PRODUCT</b>   |               |               |               |   |                        |           |               |         |           |
| ACCEPTANCE TESTING   | 0.000         |               |               | 0.000   |                        |           | 0.000         |         |           |
| PRODUCTION ENGINEERING   | 0.173         |               |               | 0.610   |                        |           | 0.718         |         |           |
| QUALITY ASSURANCE  | 0.004         |               |               | 0.042   |                        |           | 0.017         |         |           |
| <b>NONRECURRING</b>  |               |               |               |   |                        |           |               |         |           |
| GOVERNMENT FURNISHED MATERIAL  | -0.458        |               |               | -0.570  |                        |           | -0.012        |         |           |
| PACKAGE, CRATING & HANDLING  | 0.000         |               |               | 0.005   |                        |           | 0.000         |         |           |
| PC&H F/AL POWDER   | 0.004         |               |               | 0.000   |                        |           | 0.000         |         |           |
| PC&H F/COMP B  | 0.064         |               |               | 0.000   |                        |           | 0.000         |         |           |
| SCREEN/REPACK COMP D-2   | 0.023         |               |               | 0.000   |                        |           | 0.000         |         |           |
| FIRST ARTICLE TESTING  | 0.241         |               |               | 0.015   |                        |           | 0.058         |         |           |
| NONRECURRING ENG   | 0.018         |               |               | 0.029   |                        |           | 0.000         |         |           |
| PRODUCIBILITY STUDY  | 0.092         |               |               | 0.000   |                        |           | 0.000         |         |           |
| TDP REVIEW F/M097 BLAST CAP  | 0.002         |               |               | 0.000   |                        |           | 0.000         |         |           |
| TDP UPDATE   | 0.012         |               |               | 0.000   |                        |           | 0.000         |         |           |
| <b>TOTAL</b>   | <b>15.913</b> |               |               | <b>21.762</b>   |                        |           | <b>17.693</b> |         |           |
| <b>ACTIVE</b>  | <b>15.913</b> |               |               | <b>21.762</b>   |                        |           | <b>17.693</b> |         |           |
| <b>RESERVE</b>   | <b>0.000</b>  |               |               | <b>0.000</b>  |                        |           | <b>0.000</b>  |         |           |



| Exhibit P-5a, Procurement History and Planning   |         |           |                      | Weapon System   |                          |                              | Date:      |                        |                          |                          |
|--|---------|-----------|----------------------|---|--------------------------|------------------------------|------------|------------------------|--------------------------|--------------------------|
| Appropriation Code/Budget Activity/Serial Number:<br>Procurement of Ammunition, Navy and Marine Corps/2/Ammunition |         |           |                      | P-1 Line Item Nomenclature:<br>(150000) DEMOLITION MUNITIONS, ALL TYPES |                          |                              |            |                        |                          |                          |
| WBS COST ELEMENTS  | Qty     | Unit Cost | Location of PCO      | RFP Issue Date  | Contract Method and Type | Contractor and Location      | Award Date | Date of First Delivery | Tech Data Available Now? | Date Revisions Available |
| M024, CHG DEMO BLOCK PETN  |         |           |                      |   |                          |                              |            |                        |                          |                          |
| COMPLETE ROUND   |         |           |                      |   |                          |                              |            |                        |                          |                          |
| FY 2009 Baseline   | 3,148   | 63.53     | JMC, ROCK ISLAND, IL | UNKNOWN   | C/FP                     | ENSIGN-BICKFORD, SIMSBURY CT | SEP 09     | SEP 10                 |                          |                          |
| FY 2010 Baseline   | 10,017  | 75.62     | JMC, ROCK ISLAND, IL | UNKNOWN   | C/OPTION                 | ENSIGN-BICKFORD, SIMSBURY CT | MAR 10     | DEC 10                 | YES                      |                          |
| FY 2011 Baseline   | 177     | 99.14     | JMC, ROCK ISLAND, IL | UNKNOWN   | C/OPTION                 | ENSIGN-BICKFORD, SIMSBURY CT | MAR 11     | DEC 11                 | YES                      |                          |
| M039, CHG, DEMO 40 LB CRATERING LOAD, ASSEMBLE & PACK (LAP)  |         |           |                      |   |                          |                              |            |                        |                          |                          |
| FY 2009 OCO  | 1,047   | 381.75    | JMC, ROCK ISLAND, IL | OCT 08  | C/FP                     | AMERICAN ORD LLC (IAAP)      | JAN 09     | JUN 10                 |                          |                          |
| FY 2010 Baseline   | 8,176   | 423.47    | JMC, ROCK ISLAND, IL | UNKNOWN   | C/OPTION                 | AMERICAN ORD LLC (IAAP)      | MAR 10     | JUN 11                 | YES                      |                          |
| * COMP D-2 (LB)  |         |           |                      |   |                          |                              |            |                        |                          |                          |
| FY 2009 OCO  | 3,333   | 60.00     | JMC, ROCK ISLAND, IL | UNKNOWN   | SS/FP                    | ORDNANCE SYS INC (HAAP)      | SEP 09     | MAR 10                 |                          |                          |
| FY 2010 Baseline   | 18,805  | 16.64     | JMC, ROCK ISLAND, IL | UNKNOWN   | SS/OPTION                | ORDNANCE SYS INC (HAAP)      | MAR 10     | SEP 10                 | YES                      |                          |
| *COMP B TYPE I GRADE A(LB)   |         |           |                      |   |                          |                              |            |                        |                          |                          |
| FY 2009 OCO  | 42,194  | 2.37      | JMC, ROCK ISLAND, IL | UNKNOWN   | N/A                      | STOCK ISSUE                  | N/A        | N/A                    |                          |                          |
| FY 2010 Baseline   | 304,767 | 2.37      | JMC, ROCK ISLAND, IL | UNKNOWN   | N/A                      | STOCK ISSUE                  | N/A        | N/A                    | YES                      |                          |
| ALUMINUM POWDER (LB)   |         |           |                      |   |                          |                              |            |                        |                          |                          |
| FY 2009 OCO  | 27,322  | 1.83      | JMC, ROCK ISLAND, IL | UNKNOWN   | C/OPTION                 | AMPAL INC, PALMERTON PA      | MAY 09     | SEP 09                 |                          |                          |
| FY 2010 Baseline   | 84,295  | 2.30      | JMC, ROCK ISLAND, IL | UNKNOWN   | C/FP                     | TO BE SELECTED               | MAR 10     | JUL 10                 | YES                      |                          |
| M097, CAP, BLAST NON-ELEC INERT  |         |           |                      |   |                          |                              |            |                        |                          |                          |
| COMPLETE ROUND   |         |           |                      |   |                          |                              |            |                        |                          |                          |
| FY 2009 Baseline   | 23,001  | 17.39     | JMC, ROCK ISLAND, IL | UNKNOWN   | C/FP                     | STRESAU LAB INC, SPOONER WI  | DEC 09     | DEC 10                 |                          |                          |
| FY 2010 Baseline   | 22,207  | 8.08      | JMC, ROCK ISLAND, IL | UNKNOWN   | C/OPTION                 | STRESAU LAB INC, SPOONER WI  | MAR 10     | DEC 10                 | YES                      |                          |
| FY 2011 Baseline   | 3,042   | 7.84      | JMC, ROCK ISLAND, IL | UNKNOWN   | C/OPTION                 | STRESAU LAB INC, SPOONER WI  | MAR 11     | DEC 11                 | YES                      |                          |
| M098, CAP, BLAST ELECTRIC INERT  |         |           |                      |   |                          |                              |            |                        |                          |                          |
| COMPLETE ROUND   |         |           |                      |   |                          |                              |            |                        |                          |                          |
| FY 2009 Baseline   | 54,764  | 9.13      | JMC, ROCK ISLAND, IL | UNKNOWN   | C/FP                     | TO BE SELECTED               | MAY 10     | DEC 10                 |                          |                          |
| FY 2010 Baseline   | 21,574  | 9.27      | JMC, ROCK ISLAND, IL | UNKNOWN   | C/OPTION                 | TO BE SELECTED               | MAY 10     | DEC 10                 | YES                      |                          |
| FY 2011 Baseline   | 21,231  | 9.42      | JMC, ROCK ISLAND, IL | UNKNOWN   | C/OPTION                 | TO BE SELECTED               | MAR 11     | SEP 11                 | YES                      |                          |
| M174, CARTRIDGE, IMPULSE .50 CAL   |         |           |                      |   |                          |                              |            |                        |                          |                          |
| COMPLETE ROUND   |         |           |                      |   |                          |                              |            |                        |                          |                          |
| FY 2009 Baseline   | 29,673  | 16.85     | JMC, ROCK ISLAND, IL | UNKNOWN   | C/FP                     | TO BE SELECTED               | MAY 10     | MAY 11                 | YES                      |                          |
| M421, CHARGE, DEMO SHAPED 40 LB LOAD, ASSEMBLE & PACK (LAP)  |         |           |                      |   |                          |                              |            |                        |                          |                          |
| FY 2009 OCO  | 1,756   | 768.60    | JMC, ROCK ISLAND, IL | UNKNOWN   | C/FP                     | TO BE SELECTED               | MAY 10     | NOV 11                 |                          |                          |
| FY 2010 Baseline   | 212     | 1370.30   | JMC, ROCK ISLAND, IL | UNKNOWN   | C/FP                     | TO BE SELECTED               | MAY 10     | NOV 11                 | YES                      |                          |
| FY 2011 Baseline   | 153     | 1386.74   | JMC, ROCK ISLAND, IL | UNKNOWN   | C/OPTION                 | TO BE SELECTED               | MAR 11     | JUN 12                 | YES                      |                          |
| *COMP B TYPE I GRADE A(LB)   |         |           |                      |   |                          |                              |            |                        |                          |                          |
| FY 2009 OCO  | 86,580  | 2.31      | JMC, ROCK ISLAND, IL | UNKNOWN   | N/A                      | STOCK ISSUE                  | N/A        | N/A                    |                          |                          |
| FY 2010 Baseline   | 6,582   | 2.37      | JMC, ROCK ISLAND, IL | UNKNOWN   | N/A                      | STOCK ISSUE                  | N/A        | N/A                    | YES                      |                          |
| FY 2011 Baseline   | 4,750   | 2.54      | JMC, ROCK ISLAND, IL | UNKNOWN   | N/A                      | STOCK ISSUE                  | N/A        | N/A                    | YES                      |                          |

| Exhibit P-5a, Procurement History and Planning   |         |           |                      | Weapon System   |                          | Date:                        |            |                        |                          |                          |               |  |
|--|---------|-----------|----------------------|---|--------------------------|------------------------------|------------|------------------------|--------------------------|--------------------------|---------------|--|
| Appropriation Code/Budget Activity/Serial Number:<br>Procurement of Ammunition, Navy and Marine Corps/2/Ammunition |         |           |                      | P-1 Line Item Nomenclature:<br>(150000) DEMOLITION MUNITIONS, ALL TYPES |                          |                              |            |                        |                          |                          | FEBRUARY 2010 |  |
| WBS COST ELEMENTS  | Qty     | Unit Cost | Location of PCO      | RFP Issue Date  | Contract Method and Type | Contractor and Location      | Award Date | Date of First Delivery | Tech Data Available Now? | Date Revisions Available |               |  |
| COMP A-3 (LB)  |         |           |                      |   |                          |                              |            |                        |                          |                          |               |  |
| FY 2009 OCO  | 34,632  | 2.31      | JMC, ROCK ISLAND, IL | UNKNOWN   | N/A                      | STOCK ISSUE                  | N/A        | N/A                    |                          |                          |               |  |
| FY 2010 Baseline   | 24      | 2.34      | JMC, ROCK ISLAND, IL | UNKNOWN   | N/A                      | STOCK ISSUE                  | N/A        | N/A                    | YES                      |                          |               |  |
| FY 2011 Baseline   | 18      | 2.37      | JMC, ROCK ISLAND, IL | UNKNOWN   | N/A                      | STOCK ISSUE                  | N/A        | N/A                    | YES                      |                          |               |  |
| M483, EOD DEVICE, MK 7 MOD 7<br>COMPLETE ROUND   |         |           |                      |   |                          |                              |            |                        |                          |                          |               |  |
| FY 2009 Baseline   | 11,671  | 32.13     | JMC, ROCK ISLAND, IL | UNKNOWN   | C/FP                     | TO BE SELECTED               | MAY 10     | DEC 10                 | YES                      |                          |               |  |
| M757, CHARGE, ASSEMBLY DEMOLITION<br>LOAD, ASSEMBLE & PACK (LAP)   |         |           |                      |   |                          |                              |            |                        |                          |                          |               |  |
| FY 2010 OCO  | 13,794  | 247.28    | JMC, ROCK ISLAND, IL | UNKNOWN   | SS/FP                    | CRANE AAA, CRANE IN          | MAR 10     | MAR 11                 | YES                      |                          |               |  |
| COMP C-4, CLASS 3 (LB)<br>FY 2010 OCO  | 291,330 | 19.38     | JMC, ROCK ISLAND, IL | UNKNOWN   | SS/FP                    | ORDNANCE SYS INC KINGSPO, TN | MAR 10     | JUL 10                 | YES                      |                          |               |  |
| M980, CHG, DEMO EXPL SHEET, 38FT<br>LOAD, ASSEMBLE & PACK (LAP)  |         |           |                      |   |                          |                              |            |                        |                          |                          |               |  |
| FY 2009 Baseline   | 7,184   | 13.47     | JMC, ROCK ISLAND, IL | UNKNOWN   | C/FP                     | ENSIGN-BICKFORK, SIMSBURY CT | SEP 09     | SEP 10                 |                          |                          |               |  |
| FY 2009 OCO  | 60,000  | 13.47     | JMC, ROCK ISLAND, IL | UNKNOWN   | C/FP                     | ENSIGN-BICKFORK, SIMSBURY CT | SEP 09     | SEP 10                 |                          |                          |               |  |
| FY 2010 Baseline   | 10,847  | 17.21     | JMC, ROCK ISLAND, IL | UNKNOWN   | C/OPTION                 | ENSIGN-BICKFORK, SIMSBURY CT | MAR 10     | DEC 10                 | YES                      |                          |               |  |
| FY 2011 Baseline   | 83,561  | 19.04     | JMC, ROCK ISLAND, IL | UNKNOWN   | C/OPTION                 | ENSIGN-BICKFORK, SIMSBURY CT | MAR 11     | DEC 11                 | YES                      |                          |               |  |
| M986, CHG, DEMO SHEET, 9FT PETN<br>COMPLETE ROUND  |         |           |                      |   |                          |                              |            |                        |                          |                          |               |  |
| FY 2009 Baseline   | 5,165   | 67.48     | JMC, ROCK ISLAND, IL | UNKNOWN   | C/FP                     | ENSIGN-BICKFORK, SIMSBURY CT | SEP 09     | SEP 10                 |                          |                          |               |  |
| FY 2010 Baseline   | 6,132   | 58.43     | JMC, ROCK ISLAND, IL | UNKNOWN   | C/OPTION                 | ENSIGN-BICKFORK, SIMSBURY CT | MAR 10     | DEC 10                 | YES                      |                          |               |  |
| FY 2011 Baseline   | 4,090   | 93.40     | JMC, ROCK ISLAND, IL | UNKNOWN   | C/OPTION                 | ENSIGN-BICKFORK, SIMSBURY CT | MAR 11     | DEC 11                 | YES                      |                          |               |  |
| MM52, CHARGE, DEMO FLSC 1200 GR/FT<br>COMPLETE ROUND   |         |           |                      |   |                          |                              |            |                        |                          |                          |               |  |
| FY 2009 Baseline   | 37,130  | 24.05     | CRANE, CRANE, IN     | UNKNOWN   | C/FP                     | ENSIGN-BICKFORK, GRAHAM KY   | MAR 10     | SEP 10                 | NO                       |                          |               |  |
| FY 2010 Baseline   | 16,632  | 24.05     | CRANE, CRANE, IN     | UNKNOWN   | C/FFP                    | ENSIGN-BICKFORK, GRAHAM KY   | MAR 10     | SEP 10                 | NO                       |                          |               |  |
| FY 2011 OCO  | 289,144 | 32.15     | CRANE, CRANE, IN     | UNKNOWN   | C/FFP                    | ENSIGN-BICKFORK, GRAHAM KY   | OCT 10     | APR 11                 | NO                       |                          |               |  |
| MN52, DETONATOR, NON-ELEC MK154<br>DETONATOR, WITH SHOCK TUBE  |         |           |                      |   |                          |                              |            |                        |                          |                          |               |  |
| FY 2009 Baseline   | 89,000  | 43.35     | CRANE, CRANE, IN     | UNKNOWN   | C/FFP                    | SHOCK TUBE INC., NOOSUP CT   | MAR 10     | SEP 10                 | NO                       |                          |               |  |
| FY 2009 OCO  | 100,988 | 43.35     | CRANE, CRANE, IN     | UNKNOWN   | C/FFP                    | SHOCK TUBE INC., NOOSUP CT   | MAR 10     | SEP 10                 | NO                       |                          |               |  |
| FY 2010 Baseline   | 117,439 | 43.35     | CRANE, CRANE, IN     | UNKNOWN   | C/FFP                    | SHOCK TUBE INC., NOOSUP CT   | SEP 10     | MAY 11                 | NO                       |                          |               |  |
| FY 2011 Baseline   | 110,173 | 43.35     | CRANE, CRANE, IN     | UNKNOWN   | C/FFP                    | SHOCK TUBE INC., NOOSUP CT   | SEP 11     | MAY 12                 | NO                       |                          |               |  |
| MN69, BOOSTER, DEMO CHARGE<br>COMPLETE ROUND   |         |           |                      |   |                          |                              |            |                        |                          |                          |               |  |
| FY 2009 Baseline   | 136,054 | 7.35      | PICATINNY, NJ        | UNKNOWN   | C/OPTION                 | TO BE SELECTED               | MAY 10     | DEC 10                 | YES                      |                          |               |  |
| FY 2010 Baseline   | 44,296  | 9.03      | PICATINNY, NJ        | UNKNOWN   | C/FP                     | TO BE SELECTED               | MAY 10     | DEC 10                 | YES                      |                          |               |  |
| FY 2011 Baseline   | 43,431  | 9.21      | PICATINNY, NJ        | UNKNOWN   | C/OPTION                 | TO BE SELECTED               | MAR 11     | MAR 12                 | YES                      |                          |               |  |

| Exhibit P-21, Production Schedule  |                                  |      |         |        |         |        |        |        |        |        |        |     |     |     |     |       |       | Date:<br>FEBRUARY 2010  |       |       |                    |                 |                 |                       |        |                 |        |        |        |                    |         |  |  |  |  |  |  |  |  |  |  |
|--|----------------------------------|------|---------|--------|---------|--------|--------|--------|--------|--------|--------|-----|-----|-----|-----|-------|-------|---|-------|-------|--------------------|-----------------|-----------------|-----------------------|--------|-----------------|--------|--------|--------|--------------------|---------|--|--|--|--|--|--|--|--|--|--|
| Appropriation Code/Budget Activity/Serial Number:<br>Procurement of Ammunition, Navy and Marine Corps/2/Ammunition |                                  |      |         |        |         |        |        |        |        |        |        |     |     |     |     |       |       | P-1 Line Item Nomenclature:<br>(150000) DODIC: MM52, CHARGE, DEMO FLSC 1200 GR/FT |       |       |                    |                 |                 |                       |        |                 |        |        |        |                    |         |  |  |  |  |  |  |  |  |  |  |
|  |                                  |      |         |        |         |        |        |        |        |        |        |     |     |     |     |       |       | PRODUCTION RATE   |       |       |                    |                 |                 | PROCUREMENT LEADTIMES |        |                 |        |        |        |                    |         |  |  |  |  |  |  |  |  |  |  |
| Item   | Manufacturer's Name and Location |      |         |        |         |        |        |        |        |        |        |     |     |     |     |       |       | MSR   | ECON  | MAX   | ALT Prior to Oct 1 | ALT After Oct 1 | Initial Mfg PLT | Reorder Mfg PLT       | Total  | Unit of Measure |        |        |        |                    |         |  |  |  |  |  |  |  |  |  |  |
| MM52   | 1 ENSIGN-BICKFORD, GRAHAM KY     |      |         |        |         |        |        |        |        |        |        |     |     |     |     |       |       | 0   | 0     | 0     | 6                  | 6               | 14              | 12                    | 19     | K               |        |        |        |                    |         |  |  |  |  |  |  |  |  |  |  |
|  |                                  |      |         |        |         |        |        |        |        |        |        |     |     |     |     |       |       | Fiscal Year 2010  |       |       |                    |                 |                 | Fiscal Year 2011      |        |                 |        |        |        |                    |         |  |  |  |  |  |  |  |  |  |  |
|  |                                  |      |         |        |         |        |        |        |        |        |        |     |     |     |     |       |       | Calendar Year 2010  |       |       |                    |                 |                 |                       |        |                 |        |        |        | Calendar Year 2011 |         |  |  |  |  |  |  |  |  |  |  |
| Item   | FY                               | SVCY | QTY     | DEL    | BAL     | OCVT   | NDVC   | JAN    | FEB    | MAR    | APR    | MAY | JUN | JUL | AUG | SEP   | OCT   | NOV   | DEC   | JAN   | FEB                | MAR             | APR             | MAY                   | JUN    | JUL             | AUG    | SEP    | OCT    | NOV                | DEC     |  |  |  |  |  |  |  |  |  |  |
| MM52   | PY                               | MC1  | 0.000   | 0.000  | 0.000   |        |        |        |        |        |        |     |     |     |     |       |       |   |       |       |                    |                 |                 |                       |        |                 |        |        |        |                    | 0.000   |  |  |  |  |  |  |  |  |  |  |
|  | 2009                             | MC1  | 37.130  | 0.000  | 37.130  |        |        |        |        | A      |        |     |     |     |     | 3.094 | 3.094 | 3.094   | 3.094 | 3.094 | 3.094              | 3.094           | 3.094           | 3.094                 | 3.094  | 3.094           | 3.094  | 3.094  | 3.096  |                    | 0.000   |  |  |  |  |  |  |  |  |  |  |
|  | 2010                             | MC1  | 16.632  | 0.000  | 16.632  |        |        |        |        | A      |        |     |     |     |     | 2.772 | 2.772 | 2.772   | 2.772 | 2.772 | 2.772              |                 |                 |                       |        |                 |        |        |        |                    | 0.000   |  |  |  |  |  |  |  |  |  |  |
|  | 2011                             | MC1  | 289.144 | 0.000  | 289.144 |        |        |        |        |        |        |     |     |     |     |       |       |   |       |       |                    |                 |                 | 24.095                | 24.095 | 24.095          | 24.095 | 24.095 | 24.095 | 24.095             | 144.574 |  |  |  |  |  |  |  |  |  |  |
|  |                                  |      |         |        |         |        |        |        |        |        |        |     |     |     |     |       |       | Fiscal Year 2012  |       |       |                    |                 |                 | Fiscal Year 2013      |        |                 |        |        |        |                    |         |  |  |  |  |  |  |  |  |  |  |
|  |                                  |      |         |        |         |        |        |        |        |        |        |     |     |     |     |       |       | Calendar Year 2012  |       |       |                    |                 |                 |                       |        |                 |        |        |        | Calendar Year 2013 |         |  |  |  |  |  |  |  |  |  |  |
| Item   | FY                               | SVCY | QTY     | DEL    | BAL     | OCVT   | NDVC   | JAN    | FEB    | MAR    | APR    | MAY | JUN | JUL | AUG | SEP   | OCT   | NOV   | DEC   | JAN   | FEB                | MAR             | APR             | MAY                   | JUN    | JUL             | AUG    | SEP    | OCT    | NOV                | DEC     |  |  |  |  |  |  |  |  |  |  |
| MM52   | PY                               | MC1  | 0.000   | 0.000  | 0.000   |        |        |        |        |        |        |     |     |     |     |       |       |   |       |       |                    |                 |                 |                       |        |                 |        |        |        |                    | 0.000   |  |  |  |  |  |  |  |  |  |  |
|  | 2009                             | MC1  | 37.130  | 37.130 | 0.000   |        |        |        |        |        |        |     |     |     |     |       |       |   |       |       |                    |                 |                 |                       |        |                 |        |        |        |                    | 0.000   |  |  |  |  |  |  |  |  |  |  |
|  | 2010                             | MC1  | 16.632  | 16.632 | 0.000   |        |        |        |        |        |        |     |     |     |     |       |       |   |       |       |                    |                 |                 |                       |        |                 |        |        |        |                    | 0.000   |  |  |  |  |  |  |  |  |  |  |
|  | 2011                             | MC1  | 289.144 | 144.57 | 144.574 | 24.095 | 24.095 | 24.095 | 24.095 | 24.095 | 24.099 |     |     |     |     |       |       |   |       |       |                    |                 |                 |                       |        |                 |        |        |        |                    | 0.000   |  |  |  |  |  |  |  |  |  |  |
|  |                                  |      |         |        |         |        |        |        |        |        |        |     |     |     |     |       |       | Fiscal Year 2012  |       |       |                    |                 |                 | Fiscal Year 2013      |        |                 |        |        |        |                    |         |  |  |  |  |  |  |  |  |  |  |
|  |                                  |      |         |        |         |        |        |        |        |        |        |     |     |     |     |       |       | Calendar Year 2012  |       |       |                    |                 |                 |                       |        |                 |        |        |        | Calendar Year 2013 |         |  |  |  |  |  |  |  |  |  |  |

REMARKS: