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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 60: Generators	P-1 Line Item Number / Title: R42501 / Tactical Electric Power Recapitalization
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	4	66	14	14	Continuing	Continuing
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	-	11.505	7.867	-	7.867	4.436	23.407	6.437	6.567	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	-	11.505	7.867	-	7.867	4.436	23.407	6.437	6.567	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	-	11.505	7.867	-	7.867	4.436	23.407	6.437	6.567	Continuing	Continuing

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	1,109.000	354.652	459.786	469.071	Continuing	Continuing

Description:

This effort supports the recapitalization of the MEP-PU-810A/B, Deployable Power Generation & Distribution System (DPGDS) Prime Power Unit (PPU). The DPGDS PPU is the U.S. Army's current prime power mobile electric power generating asset. The DPGDS PPU is a wheel-mounted, diesel engine driven, prime power (Type II), utility (Class 2A), Mode I unit that produces 840 kilowatts (kW), 4160 volts line-to-line at 60Hz and 700kW, 3800 volts line-to-line at 50Hz with an 0.8 power factor, lagging. The MEP-PU-810 has two variants, the MEP-PU-810A, a towed trailer configuration capable of being air transported by a C-130 aircraft, and the MEP-PU-810B, a 5th wheel configuration Department of Transportation (DOT) approved for over the road use at 55 miles per hour. Throughout the Department of Defense there are 165 'A' Models and 66 'B' Models supporting numerous missions, such as supporting the nation's Ballistic Missile Defense System.

FY 2016 and FY 2017 are first article build/test years. Upon contract award the vendor will take possession of Government Furnished Equipment first article units, three (3) each MEP-PU-810A and MEP-PU-810B, and proceed to create the Modification Work Order to Recapitalize a MEP-PU-810 A to a MEP-PU-810C and a MEP-PU-810B to a MEP-PU-810D. Upon successful completion of the MWO on the first article units, first article testing will commence. Consequently, there are no quantities listed.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army									
	Quantity	-	-	-	-	4	66	14	14
	Total Obligation Authority	-	11.505	7.867	-	4.436	23.407	6.437	6.567
Total:	Quantity	-	-	-	-	4	66	14	14
Secondary Distribution	Total Obligation Authority	-	11.505	7.867	-	4.436	23.407	6.437	6.567

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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	R42511 / RECAP of DPGDS (840k)			- / -	- / -	- / 11.505	- / 7.867	- / -	- / 7.867
P-40	Total Gross/Weapon System Cost			- / -	- / -	- / 11.505	- / 7.867	- / -	- / 7.867

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:
 FY17 Base procurement dollars in the amount of \$7.867 million supports the DPGDS PPU Recapitalization. IAW Army Regulation 70-1, Army Acquisition Policy, Recapitalization is a key element in the modernization and sustainment of the Army's current force. The goals of recapitalization are to extend service life, stabilize the rate of growth of operating and support costs, improve reliability, maintainability, safety, and the efficiency of recapitalized systems. Further, recapitalization is expected to reduce the logistics footprint, as well as enhance warfighting capabilities for selected recapitalized systems. Hence, the recapitalization of the existing DPGDS PPUs is required to extend their economic useful life and to prevent a capability gap from emerging. Units currently requiring this capability include the 249th Engineer Battalion (Prime Power), the Joint Land Attack Cruise Missile Defense Elevated Netted Sensor System (JLENS), and the Missile Defense Agency/U.S. Army Space and Missile Defense Command forward based mode radar sites. This effort will streamline the logistical support requirements, capitalize on advancements in technology and afford the capability to the force for an estimated additional fifteen (15) years.

In accordance with Section 1815 of the FY2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 03 / 60	P-1 Line Item Number / Title: R42501 / Tactical Electric Power Recapitalization	Item Number / Title [DODIC]: R42511 / RECAP of DPGDS (840k)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	-	11.505	7.867	-	7.867
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	-	11.505	7.867	-	7.867
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	-	11.505	7.867	-	7.867

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
Engineering Support	-	-	-	-	-	-	-	-	3.800	-	-	1.951	-	-	-	-	-	1.951
Engineering Change Orders	-	-	-	-	-	-	-	-	1.000	-	-	0.050	-	-	-	-	-	0.050
Testing	-	-	-	-	-	-	-	-	0.500	-	-	4.872	-	-	-	-	-	4.872
Logistics Support	-	-	-	-	-	-	-	-	3.800	-	-	0.500	-	-	-	-	-	0.500
Data	-	-	-	-	-	-	-	-	0.750	-	-	0.050	-	-	-	-	-	0.050
PM Management Support	-	-	-	-	-	-	-	-	1.655	-	-	0.444	-	-	-	-	-	0.444
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	11.505	-	-	7.867	-	-	-	-	-	7.867
<i>Subtotal: Flyaway Cost</i>	-	-	-	-	-	-	-	-	11.505	-	-	7.867	-	-	-	-	-	7.867
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	11.505	-	-	7.867	-	-	-	-	-	7.867

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army					
Quantity	-	-	-	-	-
Total Obligation Authority	-	11.505	7.867	-	7.867
Total: Secondary Distribution					
Quantity	-	-	-	-	-
Total Obligation Authority	-	11.505	7.867	-	7.867

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