

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force										Date: February 2020		
Appropriation / Budget Activity / Budget Sub Activity: 3020F: Missile Procurement, Air Force / BA 03: Modification of Inservice Missiles / BSA 1: Class IV							P-1 Line Item Number / Title: M30MLG / MM III Modifications					
ID Code (A=Service Ready, B=Not Service Ready): A				Program Elements for Code B Items: 0101213F				Other Related Program Elements: 0101213F, 0303131F				
Line Item MDAP/MAIS Code: N/A												
Resource Summary	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	191.502	100.292	59.705	85.310	-	85.310	93.739	93.090	41.074	41.811	-	706.523
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	191.502	100.292	59.705	85.310	-	85.310	93.739	93.090	41.074	41.811	-	706.523
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	191.502	100.292	59.705	85.310	-	85.310	93.739	93.090	41.074	41.811	-	706.523
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	5.609	1.348	6.388	-	6.388	5.218	0.529	3.400	3.990	-	26.482
Flyaway Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:
 The FY 2020 funding request was reduced by \$19.776 million to account for the availability of prior year execution balances.

This line item funds modifications to the LGM-30, Minuteman III (MM III) Intercontinental Ballistic Missile (ICBM) weapon system. The MM III is a strategic missile capable of delivering special weapons against a wide range of targets. The purpose of the modifications budgeted in FY21 is to support the operational capability of the Minuteman III ICBM through fielding of GBSD. Funding may be used to address Diminishing Manufacturing Sources (DMS) issues.

The modifications being performed on LGM-30 include: Minuteman Minimum Essential Emergency Communications Network (MEECN) modification, LGM-30G Launch Control Center Block Upgrade (LCCBU), LGM-30G T-9 Launch Facility Trainer Conversion, LGM-30G Launch Control Center Break-In-Kit (LCCB), LGM-30G Arm/Disarm Switch Replacement (ADSR), LGM-30G Control Monitor Procedure Trainer (CMPT), LGM-30G Low Cost Modifications (LCM), LGM-30G Fast Rising B-Plug Service Life Extension (FRBP SLEP), LGM-30G ICBM Cryptography Upgrade II (ICU II), LGM-30G Automatic Switching Unit (ASU), and LGM-30G Remote Visual Assessment II (RVA II).

RDT&E funding for modifications other than MEECN is contained in PE 0101213F (PE 0604851F prior to FY15); MEECN is contained in PE 0303131F.

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Appropriation / Budget Activity / Budget Sub Activity: 3020F: Missile Procurement, Air Force / BA 03: Modification of Inservice Missiles / BSA 1: Class IV					P-1 Line Item Number / Title: M30MLG / MM III Modifications					
ID Code (A=Service Ready, B=Not Service Ready): A			Program Elements for Code B Items: 0101213F				Other Related Program Elements: 0101213F, 0303131F			
Line Item MDAP/MAIS Code: N/A										
Exhibits Schedule					Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	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-40a***	5910 / MINUTEMAN MEECN MODIFICATION (Capability Improvement)				- / 117.717	- / 11.411	- / -	- / -	- / -	- / -
P-40a***	5928 / T-9 Launch Facility Trainer Conversion (T-9) (Other)				- / 33.286	- / -	- / 2.230	- / 0.287	- / -	- / 0.287
P-40a***	5942 / LGM-30G Launch Control Center Break-In-Kit (LCCB) (Other)				- / 0.226	- / -	- / -	- / -	- / -	- / -
P-40a***	5947 / A/D Switch Replacement (Reliability & Maintainability)				- / -	- / -	- / -	- / 0.000	- / -	- / 0.000
P-40a***	5948 / CMPT upgrade (Other)				- / -	- / -	- / 0.859	- / 0.129	- / -	- / 0.129
P-40a***	5949 / Fast Rising B-Plug Service Extension Program (FRBP SLEP) (Service Life Extension)				- / -	- / 0.000	- / -	- / -	- / -	- / -
P-40a***	99999X / Low Cost Modifications (Other)				- / 7.238	- / -	- / 0.457	- / 0.000	- / -	- / 0.000
P-3a	5916 / ICBM Cryptography Upgrade Increment II (Capability Improvement)		A		- / 33.035	- / 50.591	- / 37.329	- / 31.907	- / 0.000	- / 31.907
P-3a	5921 / MM LCC Block Upgrades (Service Life Extension)		B		- / 0.000	- / 24.113	- / 17.246	- / 30.800	- / 0.000	- / 30.800
P-3a	5925 / MM III Auto Switching Unit (ASU) (Service Life Extension)		A		- / 0.000	- / 0.247	- / 0.565	- / 6.873	- / 0.000	- / 6.873
P-3a	5932 / LGM-30G Remote Visual Assessment Phase II (RVA II) (Other)		B		- / 0.000	- / 13.930	- / 1.019	- / 15.314	- / 0.000	- / 15.314
P-40	Total Gross/Weapon System Cost				- / 191.502	- / 100.292	- / 59.705	- / 85.310	- / -	- / 85.310
Exhibits Schedule					FY 2022	FY 2023	FY 2024	FY 2025	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	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-40a***	5910 / MINUTEMAN MEECN MODIFICATION (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / 129.128
P-40a***	5928 / T-9 Launch Facility Trainer Conversion (T-9) (Other)				- / -	- / -	- / -	- / -	- / -	- / 35.803
P-40a***	5942 / LGM-30G Launch Control Center Break-In-Kit (LCCB) (Other)				- / -	- / -	- / -	- / -	- / -	- / 0.226
P-40a***	5947 / A/D Switch Replacement (Reliability & Maintainability)				- / 4.534	- / 4.469	- / 0.000	- / -	- / -	- / 9.003
P-40a***	5948 / CMPT upgrade (Other)				- / -	- / -	- / -	- / -	- / -	- / 0.988
P-40a***	5949 / Fast Rising B-Plug Service Extension Program (FRBP SLEP) (Service Life Extension)				- / -	- / 17.809	- / 2.417	- / 18.000	- / -	- / 38.226
P-40a***	99999X / Low Cost Modifications (Other)				- / 0.000	- / 0.240	- / 12.767	- / 23.811	- / -	- / 44.513
P-3a	5916 / ICBM Cryptography Upgrade Increment II (Capability Improvement)		A		- / 7.812	- / 9.839	- / 0.000	- / -	- / -	- / 170.513
P-3a	5921 / MM LCC Block Upgrades (Service Life Extension)		B		- / 2.100	- / 0.000	- / -	- / -	- / -	- / 74.259
P-3a	5925 / MM III Auto Switching Unit (ASU) (Service Life Extension)		A		- / 50.547	- / 49.123	- / 25.890	- / 0.000	- / -	- / 133.245
P-3a	5932 / LGM-30G Remote Visual Assessment Phase II (RVA II) (Other)		B		- / 28.746	- / 11.610	- / 0.000	- / -	- / -	- / 70.619
P-40	Total Gross/Weapon System Cost				- / 93.739	- / 93.090	- / 41.074	- / 41.811	- / -	- / 706.523
*** Although this is an Exhibit P-40a item, the actual exhibit is not included since all of the required information for this item is already being shown here.										
*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.										

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Appropriation / Budget Activity / Budget Sub Activity: 3020F: Missile Procurement, Air Force / BA 03: Modification of Inservice Missiles / BSA 1: Class IV		P-1 Line Item Number / Title: M30MLG / MM III Modifications
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: 0101213F	Other Related Program Elements: 0101213F, 0303131F
Line Item MDAP/MAIS Code: N/A		
Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.		

Justification:
Where applicable, justification for individual modifications is provided in the P-3A exhibits.

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Exhibit P-3a, Individual Modification: PB 2021 Air Force						Date: February 2020					
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 03 / 1				P-1 Line Item Number / Title: M30MLG / MM III Modifications				Modification Number / Title: 5916 / ICBM Cryptography Upgrade Increment II			

ID Code (A=Service Ready, B=Not Service Ready) : A						MDAP/MAIS Code:					
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Resource Summary	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	33.035	50.591	37.329	31.907	0.000	31.907	7.812	9.839	0.000	-	-	170.513
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	33.035	50.591	37.329	31.907	0.000	31.907	7.812	9.839	0.000	-	-	170.513
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	33.035	50.591	37.329	31.907	0.000	31.907	7.812	9.839	0.000	-	-	170.513
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (<i>\$ in Millions</i>)	8.869	5.609	-	1.936	-	1.936	3.794	-	-	-	-	20.208
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

LGM-30G MM Crypto Mods / ICBM Cryptography Upgrade II (ICU II) procures and fields upgraded A4 Drawers that implement KS-60 Remote Key/Code Change (RCC), Irreversible Transformation (IT) and Continuous Signal Lockout (CSLO) capabilities that increases code security and prevents widespread loss of status monitoring. Cryptography modifications will increase security during code changes by reducing the frequency of open sites by 75 days annually while reducing associated labor costs.

Milestone/Development Status

ICU II Engineering & Manufacturing Development for A4 Drawer will conclude 2QFY2020.

Key production activities include:

ICU II Milestone C: Aug 18
 ICU II Production Unfinalized Contract Action: Oct 18
 ICU II Production Finalization and Contract Award: Aug 19
 ICU II Production and Deployment Phase: 1QFY2019 - 4QFY2024
 ICU II IOC: 3QFY2022
 ICU II FOC: 2QFY2024

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Appropriation / Budget Activity / Budget Sub Activity: 3020F / 03 / 1				P-1 Line Item Number / Title: M30MLG / MM III Modifications				Modification Number / Title: 5916 / ICBM Cryptography Upgrade Increment II					
ID Code (A=Service Ready, B=Not Service Ready) : A							MDAP/MAIS Code:						
Models of Systems Affected: LGM-30G				Modification Type: Capability Improvement				Related RDT&E PEs: 0101213F					
Financial Plan	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: A4 Drawer Replacement													
B Kits													
Recurring													
A4 Drawer Replacement:EQUIPMENT Group B (Active)													
- / 24.57626 / 50.257200 / 31.192231 / 15.410- / -231 / 15.410- / - - / - - / - - / - - / -457 / 121.435													
Subtotal: Recurring													
- / 24.576- / 50.257- / 31.192- / 15.410- / - - / 15.410- / - - / - - / - - / - - / 121.435													
Subtotal: A4 Drawer Replacement													
- / 24.576- / 50.257- / 31.192- / 15.410- / - - / 15.410- / - - / - - / - - / 121.435													
Subtotal: Procurement, All Modification Items													
- / 24.576- / 50.257- / 31.192- / 15.410- / - - / 15.410- / - - / - - / - - / 121.435													
Support (All Modification Items)													
GROUP B: TOTAL NONRECURRING													
- / 7.378- / - - / - - / - - / - - - / - - / - - / - - / - / 7.378													
OTHER GOVT													
- / - - / - - / 4.113- / 6.150- / - - / 6.150- / 3.050- / 1.940- / - - / - - / - / 15.253													
SUPPORT-EQUIP													
- / - - / 0.133- / 0.000- / 3.185- / - - / 3.185- / 0.000- / - - / - - - / 3.318													
Change Orders													
- / - - / - - / 1.327- / 4.238- / - - / 4.238- / 1.619- / 4.598- / - - / - / 11.782													
A&AS													
- / 1.025- / - - / 0.000- / 1.443- / - - / 1.443- / 1.519- / 1.519- / - - / - / 5.506													
PMA - Other Gov't Costs													
- / 0.056- / 0.201- / 0.697- / 1.481- / - - / 1.481- / 1.624- / 1.782- / - - / - / 5.841													
Subtotal: Support													
- / 8.459- / 0.334- / 6.137- / 16.497- / - - / 16.497- / 7.812- / 9.839- / - - / - / 49.078													
Installation													
Subtotal: Installation													
- / - - / - - / - - - / - - / - - - / - - - / - - - / - / -													
Total													
Total Cost (Procurement + Support + Installation)													
33.03550.59137.32931.9070.00031.9077.8129.8390.000- -170.513													

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Exhibit P-3a, Individual Modification: PB 2021 Air Force					Date: February 2020		
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 03 / 1			P-1 Line Item Number / Title: M30MLG / MM III Modifications			Modification Number / Title: 5916 / ICBM Cryptography Upgrade Increment II	
ID Code (A=Service Ready, B=Not Service Ready) : A				MDAP/MAIS Code:			
Modification Item 1 of 1: A4 Drawer Replacement							
Manufacturer Information							
Manufacturer Name: The Boeing Company				Manufacturer Location: Heath, OH			
Administrative Leadtime (in Months): 0				Production Leadtime (in Months): 26			
Dates	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025
Contract Dates	Aug 2019	Oct 2019	Oct 2020				
Delivery Dates	Oct 2021	Dec 2021	Dec 2022				
Installation Information							
Method of Implementation (Organic): Org/Intermediate					Installation Quantity: 457		

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Exhibit P-3a, Individual Modification: PB 2021 Air Force		Date: February 2020
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 03 / 1	P-1 Line Item Number / Title: M30MLG / MM III Modifications	Modification Number / Title: 5921 / MM LCC Block Upgrades

ID Code (A=Service Ready, B=Not Service Ready) : B						MDAP/MAIS Code:						
Resource Summary	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	24.113	17.246	30.800	0.000	30.800	2.100	0.000	-	-	-	74.259
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	24.113	17.246	30.800	0.000	30.800	2.100	0.000	-	-	-	74.259
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	24.113	17.246	30.800	0.000	30.800	2.100	0.000	-	-	-	74.259
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (<i>\$ in Millions</i>)	-	-	1.348	3.696	-	3.696	-	-	-	-	-	5.044
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The LCCBU program addresses several elements within the LCC experiencing supportability issues. Each component will be procured once development has been completed and installed at each LCC based on availability. It will consist of Journal Memory Loader (JML), Flash Data Drive (FDD), Weapon System Control Console (WSCC) Printer, Oxygen Regeneration Unit (ORU), and associated Trainers and support equipment.

All LCCBU efforts will support 45 operational LCCs, 12 trainers, 2 Integration Facilities, 2 Test Launch Facilities, additional support and test equipment for maintenance locations.

The current number of Production units for deployment includes 49 operational units and 12 trainer units. However, LCCBU is currently funded for 21 units.

Once complete, the 4 production items will be combined for deployment to the 45 LCCs, remaining production items will be distributed to test, training and support facilities as required.

RDT&E efforts are included in PE 0101213F. Development for applicable components concludes and transitions to production in FY20.

Milestone/Development Status

Key production activities include:

LCC Block Upgrades Milestone C: 2QFY2020

LCC Block Upgrades Production and Deployment:2QFY2020 - 4QFY2023

LCC Block Upgrades RAA: 4QFY2023

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Exhibit P-3a, Individual Modification: PB 2021 Air Force										Date: February 2020			
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 03 / 1					P-1 Line Item Number / Title: M30MLG / MM III Modifications					Modification Number / Title: 5921 / MM LCC Block Upgrades			
ID Code (A=Service Ready, B=Not Service Ready) : B							MDAP/MAIS Code:						
Models of Systems Affected: LGM-30G				Modification Type: Service Life Extension				Related RDT&E PEs: 0101213F					
Financial Plan	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
RDT&E PE #													
0101213F	- / 37.489	- / 9.887	- / 2.718	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 50.094	
Procurement													
Modification Item 1 of 1: Modification Kit													
B Kits													
Recurring													
Modification Kit:EQUIPMENT Group B (Active)	- / -	- / 21.802	21 / 13.824	40 / 23.684	- / -	40 / 23.684	- / -	- / -	- / -	- / -	- / -	61 / 59.310	
<i>Subtotal: Recurring</i>	- / -	- / 21.802	- / 13.824	- / 23.684	- / -	- / 23.684	- / -	- / -	- / -	- / -	- / -	- / 59.310	
<i>Subtotal: Modification Kit</i>	- / -	- / 21.802	- / 13.824	- / 23.684	- / -	- / 23.684	- / -	- / -	- / -	- / -	- / -	- / 59.310	
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / 21.802	- / 13.824	- / 23.684	- / -	- / 23.684	- / -	- / -	- / -	- / -	- / -	- / 59.310	
Support (All Modification Items)													
PMA - Other Gov't Costs	- / -	- / 1.375	- / 0.491	- / 0.584	- / -	- / 0.584	- / 0.449	- / -	- / -	- / -	- / -	- / 2.899	
A&AS	- / -	- / 0.936	- / 0.203	- / 0.280	- / -	- / 0.280	- / 0.148	- / -	- / -	- / -	- / -	- / 1.567	
OTHER GOVT	- / -	- / -	- / 0.720	- / 0.019	- / -	- / 0.019	- / -	- / -	- / -	- / -	- / -	- / 0.739	
Change Orders	- / -	- / -	- / 2.008	- / 0.660	- / -	- / 0.660	- / -	- / -	- / -	- / -	- / -	- / 2.668	
Mod of Spares	- / -	- / -	- / -	- / 4.173	- / -	- / 4.173	- / -	- / -	- / -	- / -	- / -	- / 4.173	
<i>Subtotal: Support</i>	- / -	- / 2.311	- / 3.422	- / 5.716	- / -	- / 5.716	- / 0.597	- / -	- / -	- / -	- / -	- / 12.046	
Installation													
Modification Item 1 of 1: Modification Kit	- / -	- / -	- / -	21 / 1.400	- / -	21 / 1.400	40 / 1.503	- / -	- / -	- / -	- / -	61 / 2.903	
<i>Subtotal: Installation</i>	- / -	- / -	- / -	21 / 1.400	- / -	21 / 1.400	40 / 1.503	- / -	- / -	- / -	- / -	61 / 2.903	
Total													
Total Cost (Procurement + Support + Installation)	0.000	24.113	17.246	30.800	0.000	30.800	2.100	0.000	-	-	-	74.259	

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Appropriation / Budget Activity / Budget Sub Activity: 3020F / 03 / 1											P-1 Line Item Number / Title: M30MLG / MM III Modifications											Modification Number / Title: 5921 / MM LCC Block Upgrades										
ID Code (A=Service Ready, B=Not Service Ready) : B																MDAP/MAIS Code:																
Modification Item 1 of 1: Modification Kit																																
Manufacturer Information																																
Manufacturer Name: Northrop Grumman														Manufacturer Location: TBD																		
Administrative Leadtime <i>(in Months)</i> : 1														Production Leadtime <i>(in Months)</i> : 10																		
Dates		FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				FY 2024				FY 2025						
Contract Dates						Mar 2020				Nov 2021																						
Delivery Dates						Jan 2021				Sep 2022																						
Installation Information																																
Method of Implementation: Contract Field Team																																
Installation Cost		Prior Years		FY 2019		FY 2020		FY 2021 Base		FY 2021 OCO		FY 2021 Total		FY 2022		FY 2023		FY 2024		FY 2025		To Complete		Total								
		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)								
Prior Years		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -						
FY 2019		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -						
FY 2020		- / -		- / -		- / -		21 / 1.400		- / -		21 / 1.400		- / -		- / -		- / -		- / -		- / -		- / -		21 / 1.400						
FY 2021		- / -		- / -		- / -		- / -		- / -		- / -		40 / 1.503		- / -		- / -		- / -		- / -		- / -		40 / 1.503						
FY 2022		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -						
FY 2023		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -						
FY 2024		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -						
FY 2025		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -						
To Complete		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -						
Total		- / -		- / -		- / -		21 / 1.400		- / -		21 / 1.400		40 / 1.503		- / -		- / -		- / -		- / -		- / -		61 / 2.903						
Installation Schedule																																
	PYS	FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	0	-	-	-	-	-	-	-	-	-	7	7	7	10	10	10	10	-	-	-	-	-	-	-	-	-	-	-	-	0	61	
Out	0	-	-	-	-	-	-	-	-	-	7	7	7	10	10	10	10	-	-	-	-	-	-	-	-	-	-	-	-	0	61	

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Exhibit P-3a, Individual Modification: PB 2021 Air Force		Date: February 2020
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 03 / 1	P-1 Line Item Number / Title: M30MLG / MM III Modifications	Modification Number / Title: 5925 / MM III Auto Switching Unit (ASU)

ID Code (A=Service Ready, B=Not Service Ready) : A							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	0.000	0.247	0.565	6.873	0.000	6.873	50.547	49.123	25.890	0.000	-	133.245
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	0.000	0.247	0.565	6.873	0.000	6.873	50.547	49.123	25.890	0.000	-	133.245
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	0.000	0.247	0.565	6.873	0.000	6.873	50.547	49.123	25.890	0.000	-	133.245
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	0.650	-	-	-	-	0.650
Gross/Weapon System Unit Cost <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The ASU Program will replace the obsolete Automatic Switching Unit, Diesel Electric Unit, and Minuteman Power Processor with modern commercial off-the-shelf components to improve reliability and supportability. All Launch Facilities and Missile Alert Facilities will be impacted by this program at all missile wings. The ASU program will also modify Minuteman trainers and facilities at Vandenberg. The new equipment is expected to have a design life of 10 years and will replace equipment that has exceeded its original design life.

Milestone/Development Status

Key production activities include:

ASU Milestone C: May 19

Production and Deployment Phase: 2QFY2021 - 4QFY2024

ASU RAA: Sep 24

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Exhibit P-3a, Individual Modification: PB 2021 Air Force								Date: February 2020					
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 03 / 1				P-1 Line Item Number / Title: M30MLG / MM III Modifications				Modification Number / Title: 5925 / MM III Auto Switching Unit (ASU)					
ID Code (A=Service Ready, B=Not Service Ready) : A							MDAP/MAIS Code:						
Models of Systems Affected: LGM-30G			Modification Type: Service Life Extension					Related RDT&E PEs: 0101213F					
Financial Plan	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: Auto Switching Unit													
B Kits													
Recurring													
Auto Switching Unit:EQUIPMENT Group B (Active)	- / -	- / -	- / -	22 / 4.113	- / -	22 / 4.113	252 / 30.899	170 / 23.900	56 / 13.340	- / -	- / -	500 / 72.252	
Subtotal: Recurring	- / -	- / -	- / -	- / 4.113	- / -	- / 4.113	- / 30.899	- / 23.900	- / 13.340	- / -	- / -	- / 72.252	
Subtotal: Auto Switching Unit	- / -	- / -	- / -	- / 4.113	- / -	- / 4.113	- / 30.899	- / 23.900	- / 13.340	- / -	- / -	- / 72.252	
Subtotal: Procurement, All Modification Items	- / -	- / -	- / -	- / 4.113	- / -	- / 4.113	- / 30.899	- / 23.900	- / 13.340	- / -	- / -	- / 72.252	
Support (All Modification Items)													
PMA - Other Gov't Costs	- / -	- / -	- / 0.040	- / 0.600	- / -	- / 0.600	- / 0.616	- / 0.631	- / 0.646	- / -	- / -	- / 2.533	
OTHER GOVT	- / -	- / -	- / -	- / 0.153	- / -	- / 0.153	- / 0.275	- / 0.250	- / 0.139	- / -	- / -	- / 0.817	
A&AS	- / -	- / 0.247	- / 0.525	- / 0.535	- / -	- / 0.535	- / 0.543	- / 0.550	- / 0.557	- / -	- / -	- / 2.957	
Subtotal: Support	- / -	- / 0.247	- / 0.565	- / 1.288	- / -	- / 1.288	- / 1.434	- / 1.431	- / 1.342	- / -	- / -	- / 6.307	
Installation													
Modification Item 1 of 1: Auto Switching Unit	- / -	- / -	- / -	2 / 1.472	- / -	2 / 1.472	172 / 18.214	235 / 23.792	91 / 11.208	- / -	- / -	500 / 54.686	
Subtotal: Installation	- / -	- / -	- / -	2 / 1.472	- / -	2 / 1.472	172 / 18.214	235 / 23.792	91 / 11.208	- / -	- / -	500 / 54.686	
Total													
Total Cost (Procurement + Support + Installation)	0.000	0.247	0.565	6.873	0.000	6.873	50.547	49.123	25.890	0.000	-	133.245	

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Exhibit P-3a, Individual Modification: PB 2021 Air Force										Date: February 2020																					
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 03 / 1										P-1 Line Item Number / Title: M30MLG / MM III Modifications										Modification Number / Title: 5925 / MM III Auto Switching Unit (ASU)											
ID Code (A=Service Ready, B=Not Service Ready) : A															MDAP/MAIS Code:																
Modification Item 1 of 1: Auto Switching Unit																															
Manufacturer Information																															
Manufacturer Name: Northrop Grumman															Manufacturer Location: Ogden, UT																
Administrative Leadtime <i>(in Months)</i> : 1															Production Leadtime <i>(in Months)</i> : 3																
Dates		FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				FY 2024				FY 2025					
Contract Dates										Mar 2021				Dec 2021				Dec 2022				Dec 2023									
Delivery Dates										Jun 2021				Mar 2022				Mar 2023				Mar 2024									
Installation Information																															
Method of Implementation: Contract Field Team																															
Installation Cost		Prior Years		FY 2019		FY 2020		FY 2021 Base		FY 2021 OCO		FY 2021 Total		FY 2022		FY 2023		FY 2024		FY 2025		To Complete		Total							
		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)							
Prior Years		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
FY 2019		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
FY 2020		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
FY 2021		- / -		- / -		- / -		2 / 1.472		- / -		2 / 1.472		- / -		- / -		- / -		- / -		- / -		- / -		2 / 1.472					
FY 2022		- / -		- / -		- / -		- / -		- / -		- / -		172 / 18.214		- / -		- / -		- / -		- / -		- / -		172 / 18.214					
FY 2023		- / -		- / -		- / -		- / -		- / -		- / -		- / -		235 / 23.792		- / -		- / -		- / -		- / -		235 / 23.792					
FY 2024		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		91 / 11.208		- / -		- / -		- / -		91 / 11.208					
FY 2025		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
To Complete		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
Total		- / -		- / -		- / -		2 / 1.472		- / -		2 / 1.472		172 / 18.214		235 / 23.792		91 / 11.208		- / -		- / -		- / -		500 / 54.686					
Installation Schedule																															
	PYS	FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	0	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	172	-	-	-	235	-	-	-	91	-	-	-	-	0	500
Out	0	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	172	-	-	-	235	-	-	-	91	-	-	-	-	0	500

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Exhibit P-3a, Individual Modification: PB 2021 Air Force								Date: February 2020				
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 03 / 1				P-1 Line Item Number / Title: M30MLG / MM III Modifications				Modification Number / Title: 5932 / LGM-30G Remote Visual Assessment Phase II (RVA II)				
ID Code (A=Service Ready, B=Not Service Ready) : B							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	0.000	13.930	1.019	15.314	0.000	15.314	28.746	11.610	0.000	-	-	70.619
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	0.000	13.930	1.019	15.314	0.000	15.314	28.746	11.610	0.000	-	-	70.619
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	0.000	13.930	1.019	15.314	0.000	15.314	28.746	11.610	0.000	-	-	70.619
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (\$ in Millions)	-	-	0.000	0.756	-	0.756	0.774	0.529	-	-	-	2.059
Gross/Weapon System Unit Cost (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Description:												
RVA II will provide enhanced situational awareness by providing the current remote camera feed to responding security vehicles and helicopters. RVA II will also increase backup power time to current remote visual equipment, increase video archival storage, and implement auto-activation of outer and inner zone alarms [Improved Minuteman Physical Security System (IMPSS) alarm]. RVA II will also implement changes required to meet DoD Cyber Security requirements.												
The RVA system consists of real-time video surveillance, display, and data transmission elements. During an intrusion, this system works in conjunction with the existing nuclear-certified intrusion detection system to report LF assessment information to monitoring locations.												
Milestone/Development Status												
• RVA EMD: 2QFY2017-1QFY2020 • RVA II PDR: Oct 17 • RVA II CDR: Feb 19 • RVA II Milestone C: Dec 19 • Production and Development: 3QFY2020-4QFY2023 • RVA II IOC: Aug 21 • RVA II FOC: Jul 23												
EMD contract awarded in FY17 and completed in 1QFY20.												
First lot (1squadron) will be installed at Malmstrom AFB. These units will be used for completing OT&E and then declared operational and turned over to the wing for daily use. OT&E testing associated with this effort and units themselves will be paid for with procurement funds.												

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Exhibit P-3a, Individual Modification: PB 2021 Air Force										Date: February 2020			
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 03 / 1					P-1 Line Item Number / Title: M30MLG / MM III Modifications					Modification Number / Title: 5932 / LGM-30G Remote Visual Assessment Phase II (RVA II)			
ID Code (A=Service Ready, B=Not Service Ready) : B								MDAP/MAIS Code:					
Models of Systems Affected: LGM-30G				Modification Type: Other				Related RDT&E PEs: 0101213F					
Financial Plan	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
RDT&E PE #													
0101213F	- / 4.824	- / 6.521	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 11.345	
Procurement													
<i>Modification Item 1 of 1:</i> RVA II													
B Kits													
Recurring													
RVA II:EQUIPMENT Group B (Active)	- / -	- / 13.414	- / 0.811	3 / 11.830	- / -	3 / 11.830	6 / 19.877	0 / 2.832	- / -	- / -	- / -	9 / 48.764	
<i>Subtotal: Recurring</i>	- / -	- / 13.414	- / 0.811	- / 11.830	- / -	- / 11.830	- / 19.877	- / 2.832	- / -	- / -	- / -	- / 48.764	
<i>Subtotal: RVA II</i>	- / -	- / 13.414	- / 0.811	- / 11.830	- / -	- / 11.830	- / 19.877	- / 2.832	- / -	- / -	- / -	- / 48.764	
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / 13.414	- / 0.811	- / 11.830	- / -	- / 11.830	- / 19.877	- / 2.832	- / -	- / -	- / -	- / 48.764	
Support (All Modification Items)													
PMA - Other Gov't Costs	- / -	- / 0.516	- / 0.208	- / 1.670	- / -	- / 1.670	- / 1.613	- / 1.522	- / -	- / -	- / -	- / 5.529	
<i>Subtotal: Support</i>	- / -	- / 0.516	- / 0.208	- / 1.670	- / -	- / 1.670	- / 1.613	- / 1.522	- / -	- / -	- / -	- / 5.529	
Installation													
<i>Modification Item 1 of 1:</i> RVA II	- / -	- / -	- / -	1 / 1.814	- / -	1 / 1.814	4 / 7.256	4 / 7.256	- / -	- / -	- / -	9 / 16.326	
<i>Subtotal: Installation</i>	- / -	- / -	- / -	1 / 1.814	- / -	1 / 1.814	4 / 7.256	4 / 7.256	- / -	- / -	- / -	9 / 16.326	
Total													
Total Cost (Procurement + Support + Installation)	0.000	13.930	1.019	15.314	0.000	15.314	28.746	11.610	0.000	-	-	70.619	

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Exhibit P-3a, Individual Modification: PB 2021 Air Force										Date: February 2020																					
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 03 / 1										P-1 Line Item Number / Title: M30MLG / MM III Modifications										Modification Number / Title: 5932 / LGM-30G Remote Visual Assessment Phase II (RVA II)											
ID Code (A=Service Ready, B=Not Service Ready) : B															MDAP/MAIS Code:																
Modification Item 1 of 1: RVA II																															
Manufacturer Information																															
Manufacturer Name: TBD															Manufacturer Location: TBD																
Administrative Leadtime (in Months): 0															Production Leadtime (in Months): 6																
Dates		FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				FY 2024				FY 2025					
Contract Dates										Oct 2020				Oct 2021																	
Delivery Dates										Apr 2021				Apr 2022																	
Installation Information																															
Method of Implementation: Contract Field Team																															
Installation Cost		Prior Years	FY 2019		FY 2020		FY 2021 Base		FY 2021 OCO		FY 2021 Total		FY 2022		FY 2023		FY 2024		FY 2025		To Complete		Total								
		<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>		<i>Qty (Each) / Total Cost (\$ M)</i>		<i>Qty (Each) / Total Cost (\$ M)</i>		<i>Qty (Each) / Total Cost (\$ M)</i>		<i>Qty (Each) / Total Cost (\$ M)</i>		<i>Qty (Each) / Total Cost (\$ M)</i>		<i>Qty (Each) / Total Cost (\$ M)</i>		<i>Qty (Each) / Total Cost (\$ M)</i>		<i>Qty (Each) / Total Cost (\$ M)</i>		<i>Qty (Each) / Total Cost (\$ M)</i>		<i>Qty (Each) / Total Cost (\$ M)</i>								
Prior Years		-	/	-	-	/	-	-	/	-	-	/	-	-	/	-	-	/	-	-	/	-	-	/	-						
FY 2019		-	/	-	-	/	-	-	/	-	-	/	-	-	/	-	-	/	-	-	/	-	-	/	-						
FY 2020		-	/	-	-	/	-	-	/	-	-	/	-	-	/	-	-	/	-	-	/	-	-	/	-						
FY 2021		-	/	-	-	/	-	1 / 1.814	-	/	-	1 / 1.814	2 / 3.628	-	/	-	-	/	-	-	/	-	-	/	-						
FY 2022		-	/	-	-	/	-	-	/	-	-	/	-	2 / 3.628	4 / 7.256	-	/	-	-	/	-	-	/	-							
FY 2023		-	/	-	-	/	-	-	/	-	-	/	-	-	/	-	-	/	-	-	/	-	-	/	-						
FY 2024		-	/	-	-	/	-	-	/	-	-	/	-	-	/	-	-	/	-	-	/	-	-	/	-						
FY 2025		-	/	-	-	/	-	-	/	-	-	/	-	-	/	-	-	/	-	-	/	-	-	/	-						
To Complete		-	/	-	-	/	-	-	/	-	-	/	-	-	/	-	-	/	-	-	/	-	-	/	-						
Total		-	/	-	-	/	-	1 / 1.814	-	/	-	1 / 1.814	4 / 7.256	4 / 7.256	-	/	-	-	/	-	-	/	-	-	/	-					
Installation Schedule																															
	PYS	FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4						
In	0	-	-	-	-	-	-	-	-	-	-	1	-	1	1	2	-	2	2	-	-	-	-	-	-	0	9				
Out	0	-	-	-	-	-	-	-	-	-	-	-	1	-	1	1	2	-	2	2	-	-	-	-	-	0	9				