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Exhibit R-2, RDT&E Budget Item Justification: PB 2020 Air Force										Date: February 2019		
Appropriation/Budget Activity					R-1 Program Element (Number/Name)							
3600: Research, Development, Test & Evaluation, Air Force I BA 2: Applied Research					PE 0602298F I Science and Technology Management - Major Headquarters Activities							
COST (\$ in Millions)	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost
Total Program Element	-	8.353	8.288	7.968	0.000	7.968	8.101	8.271	8.445	8.622	Continuing	Continuing
622520: Science and Technology Management - Major HQ	-	8.353	8.288	7.968	0.000	7.968	8.101	8.271	8.445	8.622	Continuing	Continuing

## A. Mission Description and Budget Item Justification

The Air Force Research Laboratory (AFRL) is a global technical enterprise, boasting some of the best and brightest leaders in the world. It provides revolutionary, relevant, and responsive science and technology (S&T) to the Warfighter. AFRL's mission is to lead the discovery, development, and integration of affordable warfighting technologies for the global air, space, and cyberspace force.

In FY 2018, PE 0602298F, Science and Technology Management - Major Headquarters Activities, Project 622520, Science and Technology Management - Major HQ, was established to provide increased transparency to Congress on personnel in Major Headquarters Activities (MHA). A portion of HQ AFRL civilian manpower was transferred into this PE from the following Air Force S&T RDT&E PEs: 0601102F, Basic Research; 0602102F, Materials; 0602201F, Aerospace Vehicle Technologies; 0602203F, Aerospace Propulsion; 0602204F, Aerospace Sensors; 0602601F, Space Technology; 0602602F, Conventional Munitions; 0602605F, Directed Energy Technology; and 0602788F, Dominant Information Sciences and Methods. This was an administrative realignment and not a new start. Prior year funding in this exhibit was previously budgeted in the Air Force S&T RDT&E PEs listed above.

This program element includes necessary civilian pay expenses required to manage, execute, and deliver science & technology capabilities. The use of program funds in this PE would be in addition to the civilian pay expenses budgeted in program elements 0601102F, 0602102F, 0602201F, 0602202F, 0602203F, 0602204F, 0602602F, 0602605F, 0602788F, and 1206601F.

As directed in the FY 2018 NDAA, Sec 825, amendment to PL 114-92 FY 2016 NDAA, Sec 828 Penalty for Cost Overruns, the FY 2018 Air Force penalty total is \$14.373M. The calculated percentage reduction to each research, development, test and evaluation and procurement account will be allocated proportionally from all programs, projects, or activities under such account.

This program is in Budget Activity 2, Applied Research because this budget activity includes studies, investigations, and non-system specific technology efforts directed toward general military needs with a view toward developing and evaluating the feasibility and practicality of proposed solutions and determining their parameters.

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B. Program Change Summary (\$ in Millions)	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
Previous President's Budget	8.353	8.288	8.302	0.000	8.302
Current President's Budget	8.353	8.288	7.968	0.000	7.968
Total Adjustments	0.000	0.000	-0.334	0.000	-0.334
• Congressional General Reductions	0.000	0.000			
• Congressional Directed Reductions	0.000	0.000			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds	0.000	0.000			
• Congressional Directed Transfers	0.000	0.000			
• Reprogrammings	0.000	0.000			
• SBIR/STTR Transfer	0.000	0.000			
• Other Adjustments	0.000	0.000	-0.334	0.000	-0.334

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Exhibit R-2A, RDT&E Project Justification: PB 2020 Air Force										Date: February 2019		
Appropriation/Budget Activity 3600 / 2					R-1 Program Element (Number/Name) PE 0602298F / Science and Technology Management - Major Headquarters Activities				Project (Number/Name) 622520 / Science and Technology Management - Major HQ			
COST (\$ in Millions)	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost
622520: Science and Technology Management - Major HQ	-	8.353	8.288	7.968	0.000	7.968	8.101	8.271	8.445	8.622	Continuing	Continuing
A. Mission Description and Budget Item Justification												
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In FY 2018, PE 0602298F, Science and Technology Management - Major Headquarters Activities, Project 622520, Science and Technology Management - Major HQ, was established to provide increased transparency to Congress on personnel in Major Headquarters Activities (MHA). A portion of HQ AFRL civilian manpower was transferred into this PE from the following Air Force S&T RDT&E PEs: 0601102F, Basic Research; 0602102F, Materials; 0602201F, Aerospace Vehicle Technologies; 0602203F, Aerospace Propulsion; 0602204F, Aerospace Sensors; 0602601F, Space Technology; 0602602F, Conventional Munitions; 0602605F, Directed Energy Technology; and 0602788F, Dominant Information Sciences and Methods. This was an administrative realignment and not a new start.												
B. Accomplishments/Planned Programs (\$ in Millions)									FY 2018	FY 2019	FY 2020	
Title: AFRL - Major Headquarters Activities									8.353	8.288	7.968	
Description: Provide professional government civilian workforce in support of all AFRL programs and activities.												
FY 2019 Plans: Provide professional government civilian workforce in support of all AFRL programs and activities.												
FY 2020 Plans: Continue to provide professional government civilian workforce in support of all AFRL programs and activities.												
FY 2019 to FY 2020 Increase/Decrease Statement: FY 2020 decreased compared to FY 2019 by \$0.320 million. Funding decreased due to civilian pay reprice adjustment.												
Accomplishments/Planned Programs Subtotals									8.353	8.288	7.968	
C. Other Program Funding Summary (\$ in Millions)												
N/A												
Remarks												

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<b>D. Acquisition Strategy</b> N/A		
<b>E. Performance Metrics</b> Please refer to the Performance Base Budget Overview Book for information on how Air Force resources are applied and how those resources are contributing to Air Force performance goals and most importantly, how they contribute to our mission.		