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Exhibit R-2, RDT&E Budget Item Justification: PB 2012 Air Force **DATE:** February 2011

| APPROPRIATION/BUDGET ACTIVITY | | | | R-1 ITEM NOMENCLATURE | | | | | | | |
|-------------------------------------------------------------------------------------------------------------------|----------------|----------------|---------------------|--------------------------------------------------|----------------------|----------------|----------------|----------------|----------------|-------------------------|-------------------|
| 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 6: <i>RDT&E Management Support</i> | | | | PE 0604256F: <i>Threat Simulator Development</i> | | | | | | | |
| COST (\$ in Millions) | FY 2010 | FY 2011 | FY 2012 Base | FY 2012 OCO | FY 2012 Total | FY 2013 | FY 2014 | FY 2015 | FY 2016 | Cost To Complete | Total Cost |
| Total Program Element | 25.375 | 21.245 | 22.420 | - | 22.420 | 23.234 | 22.379 | 20.592 | 19.923 | Continuing | Continuing |
| 662907: <i>Electronic Combat Intel Support</i> | 2.197 | 2.215 | 2.243 | - | 2.243 | 2.274 | 2.204 | 2.135 | 2.066 | Continuing | Continuing |
| 663321: <i>Electronic Warfare Ground Test Resources</i> | 15.593 | 11.441 | 12.502 | - | 12.502 | 13.700 | 13.608 | 12.663 | 12.251 | Continuing | Continuing |
| 667500: <i>Foreign Materiel Acquisition/Analysis</i> | 7.585 | 7.589 | 7.675 | - | 7.675 | 7.260 | 6.567 | 5.794 | 5.606 | Continuing | Continuing |

A. Mission Description and Budget Item Justification

This PE provides funding for the elements necessary to support the Air Force Electronic Warfare (EW) Test Process, including Directed Energy (DE). This test process provides a scientific methodology to ensure the effective disciplined and efficient testing of EW and avionics systems. Each capability or facility improvement is pursued in concert with the others to avoid duplicate capabilities while at the same time producing the proper mix of test resources needed to support the AF EW Test Process and testing of EW systems which can be used in any action involving the use of electromagnetic and DE to control the electromagnetic spectrum or to attack the enemy. This PE provides funding for the management and technical oversight of implementation activities, development and improvement of digital EW models, measurement facilities improvements, hardware-in-the-loop test facilities improvements, and installed system test facility improvements. This PE also provides funding for planning, budgetary management, and technical support of the Air Force for corporate-level implementation of the EW Test Process, improvement and modernization (I&M) activities and application of the test and evaluation (T&E) infrastructure. Support includes requirements definition and analysis, project planning, programming and budgeting, technical oversight, and application of T&E facility I&M. Products include studies, analyses, and related documentation. Additionally, this PE provides funding to support the acquisition and analysis efforts of the Foreign Materiel Program and EW intelligence efforts.

Budget Activity Justification: This program is in Budget Activity 6, RDT&E Management Support, because this budget activity includes research, development, test and evaluation efforts and funds to sustain and/or modernize the installations or operations required for general research, development, test and evaluation.

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| Exhibit R-2, RDT&E Budget Item Justification: PB 2012 Air Force | DATE: February 2011 |
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| APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 6: <i>RDT&E Management Support</i> | R-1 ITEM NOMENCLATURE PE 0604256F: <i>Threat Simulator Development</i> |
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| B. Program Change Summary (\$ in Millions) | <u>FY 2010</u> | <u>FY 2011</u> | <u>FY 2012 Base</u> | <u>FY 2012 OCO</u> | <u>FY 2012 Total</u> |
|---------------------------------------------------|-----------------------|-----------------------|----------------------------|---------------------------|-----------------------------|
| Previous President's Budget | 23.331 | 21.245 | 22.495 | - | 22.495 |
| Current President's Budget | 25.375 | 21.245 | 22.420 | - | 22.420 |
| Total Adjustments | 2.044 | - | -0.075 | - | -0.075 |
| • Congressional General Reductions | | - | | | |
| • Congressional Directed Reductions | | - | | | |
| • Congressional Rescissions | - | - | | | |
| • Congressional Adds | | - | | | |
| • Congressional Directed Transfers | | - | | | |
| • Reprogrammings | 2.044 | - | | | |
| • SBIR/STTR Transfer | - | - | | | |
| • Other Adjustments | - | - | -0.075 | - | -0.075 |

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| Exhibit R-2A, RDT&E Project Justification: PB 2012 Air Force | | | | | | | | | DATE: February 2011 | | |
| APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 6: RDT&E Management Support | | | | R-1 ITEM NOMENCLATURE PE 0604256F: Threat Simulator Development | | | | PROJECT 662907: Electronic Combat Intel Support | | | |
| COST (\$ in Millions) | FY 2010 | FY 2011 | FY 2012 Base | FY 2012 OCO | FY 2012 Total | FY 2013 | FY 2014 | FY 2015 | FY 2016 | Cost To Complete | Total Cost |
| 662907: Electronic Combat Intel Support | 2.197 | 2.215 | 2.243 | - | 2.243 | 2.274 | 2.204 | 2.135 | 2.066 | Continuing | Continuing |
| Quantity of RDT&E Articles | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |

A. Mission Description and Budget Item Justification

This project provides funding to support Foreign Materiel Operational Test and Evaluation (FMOT&E), which ensures the ability of operational commands to test and develop effective Electronic Attack/Electronic Protection (EA/EP) techniques and tactics. Funds are required for: deployment of blue systems to test facilities; travel of personnel to the test sites to evaluate and validate test results; range and laboratory costs; test consumables; costs for instrumentation of blue systems; and contracted engineering support for the conduct of tests and subsequent reporting. Funding for this program is required to prevent future aircraft losses due to improper and inaccurate aircrew tactics (e.g., lack of evasive action or proper tactics training to avoid missile attack).

Budget Activity Justification: This program is in Budget Activity 6, RDT&E Management Support, because this budget activity includes research, development, test and evaluation efforts and funds to sustain and/or modernize the installations or operations required for general research, development, test and evaluation.

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

| | FY 2010 | FY 2011 | FY 2012 Base | FY 2012 OCO | FY 2012 Total |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------|---------------------|--------------------|----------------------|
| Title: FMOT&E | 2.197 | 2.215 | 2.243 | - | 2.243 |
| Description: Supports Foreign Materiel Operational Test and Evaluation (FMOT&E) | | | | | |
| FY 2010 Accomplishments: Conduct foreign materiel operational analysis (FMOA) for fighter and bomber testing; mobility/special operations transport/helicopter testing; classified operational assessments; and extensive evaluations and reporting of blue system effectiveness. | | | | | |
| FY 2011 Plans: Continue to conduct foreign materiel operational analysis (FMOA) for fighter and bomber testing; mobility/special operations transport/helicopter testing; classified operational assessments; and extensive evaluations and reporting of blue system effectiveness. | | | | | |
| FY 2012 Base Plans: | | | | | |

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| Exhibit R-2A, RDT&E Project Justification: PB 2012 Air Force | | | | DATE: February 2011 | |
| APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 6: <i>RDT&E Management Support</i> | | R-1 ITEM NOMENCLATURE PE 0604256F: <i>Threat Simulator Development</i> | | PROJECT 662907: <i>Electronic Combat Intel Support</i> | |

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| B. Accomplishments/Planned Programs (\$ in Millions) | FY 2010 | FY 2011 | FY 2012 Base | FY 2012 OCO | FY 2012 Total |
| Continue to conduct foreign materiel operational analysis (FMOA) for fighter and bomber testing; mobility/special operations transport/helicopter testing; classified operational assessments; and extensive evaluations and reporting of blue system effectiveness. | | | | | |
| <i>FY 2012 OCO Plans:</i> Not applicable | | | | | |
| Accomplishments/Planned Programs Subtotals | 2.197 | 2.215 | 2.243 | - | 2.243 |

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|----------------------------------------------------------|----------------|----------------|-------------------------|------------------------|--------------------------|----------------|----------------|----------------|----------------|-----------------------------|-------------------|
| C. Other Program Funding Summary (\$ in Millions) | | | | | | | | | | | |
| Line Item | FY 2010 | FY 2011 | FY 2012 Base | FY 2012 OCO | FY 2012 Total | FY 2013 | FY 2014 | FY 2015 | FY 2016 | Cost To Complete | Total Cost |
| • N/A: <i>Not Applicable</i> | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | Continuing | Continuing |

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| D. Acquisition Strategy Not applicable. |
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| E. Performance Metrics 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. |
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| Exhibit R-2A, RDT&E Project Justification: PB 2012 Air Force | | | | | | | | DATE: February 2011 | | | |
| APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 6: <i>RDT&E Management Support</i> | | | | R-1 ITEM NOMENCLATURE PE 0604256F: <i>Threat Simulator Development</i> | | | | PROJECT 663321: <i>Electronic Warfare Ground Test Resources</i> | | | |
| COST (\$ in Millions) | FY 2010 | FY 2011 | FY 2012 Base | FY 2012 OCO | FY 2012 Total | FY 2013 | FY 2014 | FY 2015 | FY 2016 | Cost To Complete | Total Cost |
| 663321: <i>Electronic Warfare Ground Test Resources</i> | 15.593 | 11.441 | 12.502 | - | 12.502 | 13.700 | 13.608 | 12.663 | 12.251 | Continuing | Continuing |
| Quantity of RDT&E Articles | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |

A. Mission Description and Budget Item Justification

The AF requires a comprehensive set of test facilities to implement the Air Force Electronic Warfare (EW) Test Process in order to test EW systems, including Directed Energy (DE). To manage program risk effectively throughout the weapons system acquisition process, and conduct T&E effectively and efficiently, a broad multi-spectrum, integrated set of T&E capabilities for modeling and simulation through open-air ranges (OAR) are required. The EW Test Process Support task provides for investment management, coordinated technical oversight, and application of EW T&E facilities, including studies, analyses, and related documentation. The National Radar Cross Section (RCS) Test Facility (NRTF) at Holloman AFB, NM, provides timely, accurate, and secure RCS and antenna measurements for tri-service and joint program offices, DoD laboratories, DARPA and industry. The NRTF tests fielded and developmental systems and technology to meet Low Observable (a.k.a. stealth) and EW customer requirements. The Air Force Electronic Warfare Evaluation Simulator (AFEWES) and the Digital Integrated Air Defense System (DIADS) provide the ability to realistically evaluate hardware components and simulated weapon systems against manned hardware threat representations throughout the acquisition process. AFEWES provides simulations of advanced Infrared (IR) & Radio Frequency (RF) semi-active Surface-to-Air Missiles (SAMs), Air-to-Air Missiles (AAMs), RF missile warning, IR and Laser countermeasure functions; integration of actual threat hardware and ground clutter into advanced threat RF and IR missile simulations. DIADS provides algorithm based enemy command and control (C2) capabilities plus early warning radar detection, limited ground control intercept features and also allows man-in-the-loop interaction for the enemy C2 positions. The Installed Test Integration Program (ITIP) develops a multi-spectral synthetic battlespace with virtual and constructive modeling and simulation T&E capabilities at Edwards AFB, CA. The Advanced Warfare Test and Evaluation Capability (AWTEC) will replace 90's technology with state-of-the-art stimulators to upgrade the Benefield Anechoic Facility (BAF) at Edwards AFB, CA. Improvement and modernization efforts within this PE are identified in one mission area category: EW. EW provides planning, improvements, and modernization needed for test capabilities to conduct and support the AF EW test process, including DE. This test process provides a scientific methodology to ensure the effective disciplined and efficient testing of EW and avionics systems.

Budget Activity Justification: This program is in Budget Activity 6, RDT&E Management Support, because this budget activity includes research, development, test and evaluation efforts and funds to sustain and/or modernize the installations or operations required for general research, development, test and evaluation.

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

| | FY 2010 | FY 2011 | FY 2012 Base | FY 2012 OCO | FY 2012 Total |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------|---------------------|--------------------|----------------------|
| Title: I&M | 14.447 | 10.250 | 11.298 | - | 11.298 |
| Description: Provides for planning and improvement & modernization (I&M) of test capabilities to conduct and support the AF EW test process, including DE. | | | | | |

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| Exhibit R-2A, RDT&E Project Justification: PB 2012 Air Force | | | DATE: February 2011 | | | | |
| APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 6: RDT&E Management Support | | R-1 ITEM NOMENCLATURE PE 0604256F: Threat Simulator Development | | PROJECT 663321: Electronic Warfare Ground Test Resources | | | |
| B. Accomplishments/Planned Programs (\$ in Millions) | | | FY 2010 | FY 2011 | FY 2012 Base | FY 2012 OCO | FY 2012 Total |
| <p>FY 2010 Accomplishments: AFEWES test capability I&M continues updates to support high-fidelity RF and IR threat simulators to evaluate effectiveness of DoD and Allied EW systems; DIADS architecture upgrades add new capabilities to simulate evolving threats; ITIP integration of stand-alone EW stimulators continues development of integrated EW test scenarios; AWTEC is providing a suite of state-of-the-art stimulators to replace 90's technology; and the NRTF continues to enhance efficiency of operations and accuracy for measuring RCS of Low Observable platforms and antennas.</p> <p>FY 2011 Plans: AFEWES test capability I&M will continue to advance high-fidelity RF and IR threat simulators to evaluate effectiveness of DoD and Allied EW systems; DIADS architecture upgrades will continue to advance new capabilities to simulate evolving threats; AWTEC will continue to provide state-of-the-art stimulators to replace 90's technology; and the NRTF will continue to enhance efficiency of operations and accuracy for measuring RCS of Low Observable platforms and antennas.</p> <p>FY 2012 Base Plans: DIADS architecture upgrades will continue to advance new capabilities to simulate evolving threats; AWTEC will continue to provide state-of-the-art stimulators to replace 90's technology; and the NRTF will continue to enhance efficiency of operations and accuracy for measuring RCS of Low Observable platforms and antennas.</p> <p>FY 2012 OCO Plans: Not applicable.</p> | | | | | | | |
| <p>Title: EC Test Process Support</p> <p>Description: Electronic Combat (EC) Test Process Support. Conduct requirements analyses and other studies in support of Air Force investments in EW test infrastructure.</p> <p>FY 2010 Accomplishments: Continue to provide Systems Engineering / Technical Assistance (SETA) support for Air Force implementation of the EW Test Process, including I&M of the EW test infrastructure.</p> <p>FY 2011 Plans:</p> | | | 1.146 | 1.191 | 1.204 | - | 1.204 |

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| Exhibit R-2A, RDT&E Project Justification: PB 2012 Air Force | | | | | | | | DATE: February 2011 | | | | |
| APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 6: <i>RDT&E Management Support</i> | | | | R-1 ITEM NOMENCLATURE PE 0604256F: <i>Threat Simulator Development</i> | | | | PROJECT 663321: <i>Electronic Warfare Ground Test Resources</i> | | | | |
| B. Accomplishments/Planned Programs (\$ in Millions) | | | | | | | | FY 2010 | FY 2011 | FY 2012 Base | FY 2012 OCO | FY 2012 Total |
| Continue to provide Systems Engineering / Technical Assistance (SETA) support for Air Force implementation of the EW Test Process, including I&M of the EW test infrastructure. | | | | | | | | | | | | |
| <i>FY 2012 Base Plans:</i> Continue to provide Systems Engineering / Technical Assistance (SETA) support for Air Force implementation of the EW Test Process, including I&M of the EW test infrastructure. | | | | | | | | | | | | |
| <i>FY 2012 OCO Plans:</i> Not applicable. | | | | | | | | | | | | |
| Accomplishments/Planned Programs Subtotals | | | | | | | | 15.593 | 11.441 | 12.502 | - | 12.502 |
| C. Other Program Funding Summary (\$ in Millions) | | | | | | | | | | | | |
| Line Item | FY 2010 | FY 2011 | FY 2012 Base | FY 2012 OCO | FY 2012 Total | FY 2013 | FY 2014 | FY 2015 | FY 2016 | Cost To Complete | Total Cost | |
| • RDT&E AF: <i>PE 0604759F, Major T&E Investment.</i> | 63.892 | 61.587 | 62.206 | 0.000 | 62.206 | 60.038 | 49.606 | 46.223 | 53.760 | Continuing | Continuing | |
| • RDT&E AF (1): <i>PE 0605807F, T&E Support.</i> | 755.992 | 759.868 | 654.475 | 0.000 | 654.475 | 578.997 | 595.567 | 615.594 | 613.825 | Continuing | Continuing | |
| • RDT&E AF (2): <i>PE 0605976F, Facility Restoration & Modernization</i> | 52.190 | 46.327 | 44.547 | 0.000 | 44.547 | 45.723 | 44.236 | 40.071 | 38.191 | Continuing | Continuing | |
| • RDT&E AF (3): <i>PE 0605978F, Facilities Sustainment</i> | 29.559 | 27.579 | 27.953 | 0.000 | 27.953 | 28.049 | 27.220 | 26.416 | 25.600 | Continuing | Continuing | |
| D. Acquisition Strategy | | | | | | | | | | | | |
| This program element uses several different contracting strategies to provide the most cost effective T&E investment solutions. The main acquisition strategy is to use full and open competition wherever possible to improve and modernize existing test capabilities. | | | | | | | | | | | | |
| E. Performance Metrics | | | | | | | | | | | | |
| 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. | | | | | | | | | | | | |

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| Exhibit R-2A, RDT&E Project Justification: PB 2012 Air Force | | | | | | | | DATE: February 2011 | | | |
| APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 6: RDT&E Management Support | | | | R-1 ITEM NOMENCLATURE PE 0604256F: Threat Simulator Development | | | | PROJECT 667500: Foreign Materiel Acquisition/Analysis | | | |
| COST (\$ in Millions) | FY 2010 | FY 2011 | FY 2012 Base | FY 2012 OCO | FY 2012 Total | FY 2013 | FY 2014 | FY 2015 | FY 2016 | Cost To Complete | Total Cost |
| 667500: Foreign Materiel Acquisition/Analysis | 7.585 | 7.589 | 7.675 | - | 7.675 | 7.260 | 6.567 | 5.794 | 5.606 | Continuing | Continuing |
| Quantity of RDT&E Articles | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| A. Mission Description and Budget Item Justification | | | | | | | | | | | |
| This project's specific purpose is to support USAF Foreign Materiel Program requirements through the acquisition and analysis of foreign materiel. Items considered for these Foreign Materiel Acquisition (FMA) funds are included in the prioritized Air Force FMA Top 20 list established each year. Each Major Command (MAJCOM) prepares and approves a Foreign Materiel - Mission Requirements Statement for each requirement. Annually, the MAJCOM commanders establish a list of their top 20 requirements. The MAJCOMs' requirements lists are integrated and prioritized into a classified Air Force requirement list. Each MAJCOM then approves the FMA Top 20 List and final validation comes from the Air Force Vice Chief of Staff. System analyses are based on and driven by acquisitions. The USAF provides assessments and data for threat systems to all DoD components. | | | | | | | | | | | |
| Budget Activity Justification: This program is in Budget Activity 6, RDT&E Management Support, because this budget activity includes research, development, test and evaluation efforts and funds to sustain and/or modernize the installations or operations required for general research, development, test and evaluation. | | | | | | | | | | | |
| B. Accomplishments/Planned Programs (\$ in Millions) | | | | | | | FY 2010 | FY 2011 | FY 2012 Base | FY 2012 OCO | FY 2012 Total |
| Title: FMP | | | | | | | 7.585 | 7.589 | 7.675 | - | 7.675 |
| Description: Supports USAF Foreign Materiel Program (FMP) Requirements through the acquisition and analysis of foreign materiel. | | | | | | | | | | | |
| FY 2010 Accomplishments: Fund acquisition of available Foreign Materiel IAW the prioritized Air Force Foreign Materiel List; analysis of acquired Foreign Materiel; and operations and maintenance of the specialized Foreign Materiel assets. | | | | | | | | | | | |
| FY 2011 Plans: Continue to fund acquisition of available Foreign Materiel IAW the prioritized Air Force Foreign Materiel List; analysis of acquired Foreign Materiel; and operations and maintenance of the specialized Foreign Materiel assets. | | | | | | | | | | | |
| FY 2012 Base Plans: | | | | | | | | | | | |

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| B. Accomplishments/Planned Programs (\$ in Millions) | FY 2010 | FY 2011 | FY 2012 Base | FY 2012 OCO | FY 2012 Total |
| Continue to fund acquisition of available Foreign Materiel IAW the prioritized Air Force Foreign Materiel List; analysis of acquired Foreign Materiel; and operations and maintenance of the specialized Foreign Materiel assets. <i>FY 2012 OCO Plans:</i> Not applicable. | | | | | |
| Accomplishments/Planned Programs Subtotals | 7.585 | 7.589 | 7.675 | - | 7.675 |

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|----------------------------------------------------------|----------------|----------------|-------------------------|------------------------|--------------------------|----------------|----------------|----------------|----------------|-----------------------------|-------------------|
| C. Other Program Funding Summary (\$ in Millions) | | | | | | | | | | | |
| Line Item | FY 2010 | FY 2011 | FY 2012 Base | FY 2012 OCO | FY 2012 Total | FY 2013 | FY 2014 | FY 2015 | FY 2016 | Cost To Complete | Total Cost |
| • N/A: <i>Not Applicable</i> | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | Continuing | Continuing |

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| D. Acquisition Strategy Not applicable. |
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| E. Performance Metrics 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. |
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