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| Exhibit R-2, RDT&E Budget Item Justification: FY 2018 Navy | | | | | | | | | | Date: May 2017 | | |
| Appropriation/Budget Activity 1319: Research, Development, Test & Evaluation, Navy / BA 5: System Development & Demonstration (SDD) | | | | | R-1 Program Element (Number/Name) PE 0604800N / JT Strike Fighter (JSF) - EMD | | | | | | | |
| COST (\$ in Millions) | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 | Cost To Complete | Total Cost |
| Total Program Element | 47,639.443 | 488.703 | 528.716 | 108.931 | - | 108.931 | 66.174 | 1.637 | 0.454 | 0.467 | 0.000 | 48,834.525 |
| 2261: Joint Strike Fighter EMD | 47,503.136 | 453.037 | 504.296 | 103.144 | - | 103.144 | 61.179 | 1.637 | 0.454 | 0.467 | 0.000 | 48,627.350 |
| 3352: F-35C Sustainment/ Capability Enhancements | 136.307 | 35.666 | 24.420 | 5.787 | - | 5.787 | 4.995 | 0.000 | 0.000 | 0.000 | 0.000 | 207.175 |
| Program MDAP/MAIS Code: Project MDAP/MAIS Code(s): 198 | | | | | | | | | | | | |
| A. Mission Description and Budget Item Justification | | | | | | | | | | | | |
| <p>The F-35 Joint Strike Fighter (JSF) Program will develop and field an affordable, highly common family of next generation strike aircraft for the USN, USAF, USMC and allies. The three variants are the F-35A conventional takeoff and landing; F-35B short takeoff and vertical landing; and the F-35C Aircraft Carrier suitable variant. The F-35A will be a stealthy multi-role aircraft, primary air-to-ground for the Air Force to replace the F-16 and A-10 and complement the F-22. The F-35B variant will be a multi-role strike fighter aircraft to replace the AV-8B and F/A-18 for the Marine Corps, replace the Sea Harrier and GR 7 for the United Kingdom, and replace the AV-8 currently employed by the Italian Navy. The F-35C will provide the Department of the Navy a multi-role, stealthy strike fighter aircraft to complement the F/A-18E/F.</p> <p>The United Kingdom, Italy, Netherlands, Turkey, Canada, Australia, Denmark, Norway, and Foreign Military Sales customers are also participants in the JSF program. The program shown here reflects USN, USMC, USAF, and International Partner funding.</p> <p>Funding at the accomplishment/planned program level is reported as the total of all services and partners as these activities support all aircraft variants.</p> <p>The System Development and Demonstration (SDD) budget funds a total quantity of 20 RDT&E test articles to include 6 ground test articles and 14 flight test articles for USN, USMC, and USAF use.</p> <p>FY07: 1 F-35A flight test article FY08: 1 F-35B flight test article; 1 F-35B ground test article FY09: 1 F-35B flight test article; 2 F-35A ground test articles FY10: 6 flight test articles: 3 F-35A, 2 F-35B, 1 F-35C; 3 ground test articles: 1 F-35B, 2 F-35C FY11: 4 flight test articles: 1 F-35A, 1 F-35B, 2 F-35C FY13: 1 F-35C flight test article</p> <p>JUSTIFICATION FOR BUDGET ACTIVITY: This program is funded under SDD because it includes those projects that have passed Milestone B approval and are conducting engineering and manufacturing development tasks aimed at meeting validated requirement prior to full-rate production decision.</p> | | | | | | | | | | | | |

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| Exhibit R-2, RDT&E Budget Item Justification: FY 2018 Navy | | | | Date: May 2017 | |
| Appropriation/Budget Activity 1319: Research, Development, Test & Evaluation, Navy I BA 5: System Development & Demonstration (SDD) | | R-1 Program Element (Number/Name) PE 0604800N I JT Strike Fighter (JSF) - EMD | | | |
| B. Program Change Summary (\$ in Millions) | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
| Previous President's Budget | 504.736 | 528.716 | 55.618 | - | 55.618 |
| Current President's Budget | 488.703 | 528.716 | 108.931 | - | 108.931 |
| Total Adjustments | -16.033 | 0.000 | 53.313 | - | 53.313 |
| • Congressional General Reductions | - | - | | | |
| • Congressional Directed Reductions | - | - | | | |
| • Congressional Rescissions | - | - | | | |
| • Congressional Adds | - | - | | | |
| • Congressional Directed Transfers | - | - | | | |
| • Reprogrammings | 0.000 | 0.000 | | | |
| • SBIR/STTR Transfer | -16.033 | 0.000 | | | |
| • Program Adjustments | 0.000 | 0.000 | 53.313 | - | 53.313 |
| • Rate/Misc Adjustments | 0.000 | 0.000 | 0.000 | - | 0.000 |
| Change Summary Explanation | | | | | |
| FY2018 Increase: \$53.313M extend F-35 System Development and Demonstration. | | | | | |
| Sustainment/Capability Enhancements Standard Operating Unit schedule slipped from 01/2017 to 04/2018. | | | | | |
| Initial Operational Test and Evaluation (IOT&E) schedule slipped from 04/2018 to 01/2020. | | | | | |

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| Exhibit R-2A, RDT&E Project Justification: FY 2018 Navy | | | | | | | | | | Date: May 2017 | | |
| Appropriation/Budget Activity 1319 / 5 | | | | | R-1 Program Element (Number/Name) PE 0604800N / JT Strike Fighter (JSF) - EMD | | | | Project (Number/Name) 2261 / Joint Strike Fighter EMD | | | |
| COST (\$ in Millions) | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 | Cost To Complete | Total Cost |
| 2261: Joint Strike Fighter EMD | 47,503.136 | 453.037 | 504.296 | 103.144 | - | 103.144 | 61.179 | 1.637 | 0.454 | 0.467 | 0.000 | 48,627.350 |
| Quantity of RDT&E Articles | | - | - | - | - | - | - | - | - | - | | |
| Project MDAP/MAIS Code: 198 | | | | | | | | | | | | |
| Note Total cost including United States Navy (USN), United States Marine Corps (USMC), International partner contributions and United States Air Force (USAF) funding are: FY16 \$1,462.496M, FY17 \$1,436.879M and FY18 \$527.873M R-2 data reflects variant unique funding only. R-2A(section B)/R-3 displays total combined Program (i.e. not Service specific), including International partners. JSF EMD Includes: USAF PE 0604800F BPAC 653831 USN PE 0604800N Project Unit 2261 USMC PE 0604800M Project Unit 2262 D&S Includes: USAF PE 0604800F BPAC 653832 USN PE 0604800N Project Unit 3352 USMC PE 0604800M Project Unit 3350 | | | | | | | | | | | | |
| A. Mission Description and Budget Item Justification The F-35 Joint Strike Fighter (JSF) Program will develop and field an affordable, highly common family of next generation strike aircraft for the USN, USAF, USMC and allies. The three variants are the F-35A conventional takeoff and landing; F-35B short takeoff and vertical landing; and the F-35C Aircraft Carrier suitable variant. The F-35A will be a stealthy multi-role aircraft, primary air-to-ground for the Air Force to replace the F-16 and A-10 and complement the F-22. The F-35B variant will be a multi-role strike fighter aircraft to replace the AV-8B and F/A-18 for the Marine Corps, replace the Sea Harrier and GR 7 for the United Kingdom, and replace the AV-8 currently employed by the Italian Navy. The F-35C will provide the Department of the Navy a multi-role, stealthy strike fighter aircraft to complement the F/A-18E/F. The United Kingdom, Italy, Netherlands, Turkey, Canada, Australia, Denmark, Norway, and Foreign Military Sales customers are also participants in the JSF program. The program shown here reflects USN, USMC, USAF, and International Partner funding. Funding at the accomplishment/planned program level is reported as the total of all services and partners as these activities support all aircraft variants. | | | | | | | | | | | | |

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| Exhibit R-2A, RDT&E Project Justification: FY 2018 Navy | | | Date: May 2017 | | | |
| Appropriation/Budget Activity 1319 / 5 | R-1 Program Element (Number/Name) PE 0604800N / JT Strike Fighter (JSF) - EMD | Project (Number/Name) 2261 / Joint Strike Fighter EMD | | | | |
| The System Development and Demonstration (SDD) budget funds a total quantity of 20 RDT&E test articles to include 6 ground test articles and 14 flight test articles for USN, USAF, and USMC use. | | | | | | |
| FY07: 1 F-35A flight test article FY08: 1 F-35B flight test article; 1 F-35B ground test article FY09: 1 F-35B flight test article; 2 F-35A ground test articles FY10: 6 flight test articles: 3 F-35A, 2 F-35B, 1 F-35C; 3 ground test articles: 1 F-35B, 2 F-35C FY11: 4 flight test articles: 1 F-35A, 1 F-35B, 2 F-35C FY13: 1 F-35C flight test article | | | | | | |
| B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each) | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
| Title: System Development and Demonstration (SDD) | | 850.841 | 925.860 | 331.782 | 0.000 | 331.782 |
| Articles: | | - | - | - | - | - |
| Description: SDD execution of the Air System (Lockheed Martin) including International Commonality Efforts; includes airframe, vehicle and mission systems, autonomic logistics, systems engineering & test efforts. | | | | | | |
| FY 2016 Accomplishments: Continue SDD execution of Air System Lockheed Martin, including International Commonality Effort which includes, airframe, vehicle systems, mission systems, autonomic logistics, systems engineering, and integrated test efforts including modifications to Operational Testing. Activity aligned to Integrated Master Schedule (IMS) in accordance with variant Initial Operational Capability (IOC). | | | | | | |
| FY 2017 Plans: Continue SDD execution of Air System Lockheed Martin, including International Commonality Effort which includes, airframe, vehicle systems, mission systems, autonomic logistics, systems engineering, and integrated test efforts. Activity aligned to IMS in accordance with variant IOC. | | | | | | |
| FY 2018 Base Plans: Continue SDD execution of Air System Lockheed Martin, including International Commonality Effort which includes, airframe, vehicle systems, mission systems, autonomic logistics, systems engineering, and integrated test efforts. Activity aligned to IMS in accordance with variant IOC. | | | | | | |
| FY 2018 OCO Plans: N/A | | | | | | |
| Title: F135 Propulsion System | | 123.198 | 120.000 | 0.000 | 0.000 | 0.000 |
| Articles: | | - | - | - | - | - |

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| B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each) | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
| <p>Description: SDD execution of the F135 Propulsion System (Pratt & Whitney) including International Commonality Effort; includes testing, autonomic logistics, integration & performing technology maturation efforts.</p> <p>FY 2016 Accomplishments: Continue SDD execution of the F135 Propulsion System with Pratt & Whitney that includes engine testing, autonomic logistics, integration and performing technology maturation efforts.</p> <p>FY 2017 Plans: Continue SDD execution of the F135 Propulsion System with Pratt & Whitney that includes engine testing, autonomic logistics, integration and performing technology maturation efforts.</p> <p>FY 2018 Base Plans: N/A</p> <p>FY 2018 OCO Plans: N/A</p> | | | | | | |
| <p>Title: Systems Engineering (SE)</p> <p align="right">Articles:</p> <p>Description: SDD SE including systems operations requirements analysis, program integration, requirements integration, and interoperability support.</p> <p>FY 2016 Accomplishments: Continue SDD SE, including systems operations requirements analysis, program integration, requirements integration, and interoperability support.</p> <p>FY 2017 Plans: Continue SDD SE, including systems operations requirements analysis, program integration, requirements integration, and interoperability support.</p> <p>FY 2018 Base Plans: Continue SDD SE, including systems operations requirements analysis, program integration, requirements integration, and interoperability support.</p> <p>FY 2018 OCO Plans:</p> | | 24.844 - | 28.181 - | 0.912 - | 0.000 - | 0.912 - |

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| Appropriation/Budget Activity 1319 / 5 | | R-1 Program Element (Number/Name) PE 0604800N / JT Strike Fighter (JSF) - EMD | | Project (Number/Name) 2261 / Joint Strike Fighter EMD | | |
| B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each) | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
| N/A | | | | | | |
| Title: Development Test and Evaluation (DT&E) Articles: Description: Government DT&E/Operational Testing (OT) in support of first flight of test aircraft. Elements of DT&E include preparation for flight testing and weapons integration testing. FY 2016 Accomplishments: Continue government DT&E/OT in support of test aircraft. Continue flight sciences testing of CTOL, STOVL, and CV variants to expand air vehicle envelope and support mission systems testing. Elements of DT&E include flight testing, weapons integration testing, and component capabilities testing. FY 2017 Plans: Continue government DT&E/OT in support of test aircraft. Continue flight sciences testing of CTOL, STOVL, and CV variants to expand air vehicle envelope and support mission systems testing. Elements of DT&E include flight testing, weapons integration testing, and component capabilities testing. FY 2018 Base Plans: Continue government DT&E/OT in support of test aircraft. Continue flight sciences testing of CTOL, STOVL, and CV variants to expand air vehicle envelope and support mission systems testing. Elements of DT&E include flight testing, weapons integration testing, and component capabilities testing. FY 2018 OCO Plans: N/A | | 291.530 - | 281.672 - | 143.809 - | 0.000 - | 143.809 - |
| Title: Development Support Articles: Description: SDD Support efforts for airframe, air vehicle systems, mission systems, weapons integration, mission support, and autonomic logistics development activities. FY 2016 Accomplishments: Continue SDD support efforts for airframe, air vehicle systems, mission systems, weapons integration, mission support, and autonomic logistics development activities. FY 2017 Plans: | | 171.483 - | 80.945 - | 10.676 - | 0.000 - | 10.676 - |

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| Appropriation/Budget Activity 1319 / 5 | | R-1 Program Element (Number/Name) PE 0604800N / JT Strike Fighter (JSF) - EMD | | Project (Number/Name) 2261 / Joint Strike Fighter EMD | | | | |
| B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each) | | | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
| Continue SDD support efforts for airframe, air vehicle systems, mission systems, weapons integration, mission support, and autonomic logistics development activities. | | | | | | | | |
| FY 2018 Base Plans: Continue SDD support efforts for airframe, air vehicle systems, mission systems, weapons integration, mission support, and autonomic logistics development activities. | | | | | | | | |
| FY 2018 OCO Plans: N/A | | | | | | | | |
| Title: Autonomic Logistics Information System (ALIS) Articles: Description: SDD execution of Autonomic Logistics Information System (ALIS) develops the information infrastructure used to transmit health and maintenance action information for the aircraft to the appropriate users. FY 2016 Accomplishments: Continue SDD execution of ALIS to develop the information infrastructure used to transmit health and maintenance action information for the aircraft to the appropriate users. FY 2017 Plans: Continue SDD execution of ALIS to develop the information infrastructure used to transmit health and maintenance action information for the aircraft to the appropriate users. FY 2018 Base Plans: Continue SDD execution of ALIS to develop the information infrastructure used to transmit health and maintenance action information for the aircraft to the appropriate users. FY 2018 OCO Plans: N/A | | | | 0.600 - | 0.221 - | 40.694 - | 0.000 - | 40.694 - |
| Accomplishments/Planned Programs Subtotals | | | | 1,462.496 | 1,436.879 | 527.873 | 0.000 | 527.873 |
| Joint Strike Fighter 0604800F | | | | 497.031 | 403.505 | 255.745 | - | 255.745 |
| Joint Strike Fighter 0604800M | | | | 495.428 | 507.078 | 141.534 | - | 141.534 |
| International Partner | | | | 17.000 | 22.000 | 27.450 | - | 27.450 |

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| Exhibit R-2A, RDT&E Project Justification: FY 2018 Navy | | | Date: May 2017 | | |
| Appropriation/Budget Activity 1319 / 5 | | R-1 Program Element (Number/Name) PE 0604800N / JT Strike Fighter (JSF) - EMD | | Project (Number/Name) 2261 / Joint Strike Fighter EMD | |

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| B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each) | | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
| Navy Subtotals | | | 453.037 | 504.296 | 103.144 | 0.000 | 103.144 |

C. Other Program Funding Summary (\$ in Millions)

| <u>Line Item</u> | <u>FY 2016</u> | <u>FY 2017</u> | <u>FY 2018 Base</u> | <u>FY 2018 OCO</u> | <u>FY 2018 Total</u> | <u>FY 2019</u> | <u>FY 2020</u> | <u>FY 2021</u> | <u>FY 2022</u> | <u>Cost To Complete</u> | <u>Total Cost</u> |
|---|----------------|----------------|---------------------|--------------------|----------------------|----------------|----------------|----------------|----------------|-------------------------|-------------------|
| • RDT&E/0604800F: F-35A Joint Strike Fighter SDD | 497.031 | 403.505 | 255.745 | - | 255.745 | 69.655 | 7.796 | 5.598 | 0.000 | 0.000 | 22,265.229 |
| • International: International Partner (SDD) | 17.000 | 22.000 | 27.450 | - | 27.450 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 5,013.463 |
| • APAF/0207142F BP10: F-35A USAF CTOL | 5,259.812 | 4,997.394 | 4,544.684 | - | 4,544.684 | 4,253.696 | 4,209.813 | 4,862.684 | 4,796.042 | 144,128.756 | 198,657.199 |
| • RDT&E/0604800M/2262: F-35B JT Strike Fighter (JSF) - EMD | 495.428 | 507.078 | 141.534 | - | 141.534 | 55.952 | 1.727 | 0.547 | 0.564 | 0.000 | 48,705.966 |
| • APN/0605B: F-35B Joint Strike Fighter STOV L Spares | 111.569 | 123.252 | 105.671 | - | 105.671 | 92.198 | 160.150 | 140.989 | 143.809 | Continuing | Continuing |
| • APN/0605C: F-35C Joint Strike Fighter CV Spares | 59.914 | 26.076 | 84.591 | - | 84.591 | 44.971 | 52.858 | 303.608 | 309.680 | Continuing | Continuing |
| • MILCON 0207142F: USAF MILCON Operations | 132.850 | 305.700 | 80.000 | - | 80.000 | 27.500 | 0.000 | 0.000 | 0.000 | 1,312.100 | 2,511.350 |
| • APAF/0207142F BP11: USAF Modification Funding | 70.167 | 175.811 | 68.270 | - | 68.270 | 230.448 | 279.814 | 259.978 | 301.899 | Continuing | Continuing |
| • FOD/0207142F: USAF Follow-on-Development (FoD) | 47.023 | 127.302 | 299.408 | - | 299.408 | 463.321 | 474.971 | 396.488 | 263.548 | Continuing | Continuing |
| • 0207142F/USAF BP16: USAF Joint Strike Fighter Initial Spares | 229.582 | 362.792 | 320.831 | - | 320.831 | 319.151 | 416.722 | 399.361 | 394.654 | 3,893.112 | 7,567.519 |
| • USAF/OPAF 0207142F: USAF OPAF | 3.858 | 2.333 | 3.326 | - | 3.326 | 3.310 | 2.993 | 2.463 | 2.507 | Continuing | Continuing |
| • APN/0592: F-35B STOV L Serious | 204.464 | 34.928 | 34.963 | - | 34.963 | 70.305 | 67.039 | 79.174 | 80.761 | Continuing | Continuing |
| • APN/0593: F-35C CV Serious | 48.527 | 26.004 | 31.689 | - | 31.689 | 22.344 | 14.155 | 13.404 | 13.672 | Continuing | Continuing |
| • RDT&E/0604800M/3350: F-35B Sustainment/ Capability Enhancements | 30.819 | 24.348 | 11.400 | - | 11.400 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 202.874 |

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| Exhibit R-2A, RDT&E Project Justification: FY 2018 Navy | | | | | | | | | Date: May 2017 | | | |
|--|-----------|-----------|-----------------|--|------------------|-----------|-----------|--|----------------|---------------------|------------|--|
| Appropriation/Budget Activity 1319 / 5 | | | | R-1 Program Element (Number/Name) PE 0604800N / JT Strike Fighter (JSF) - EMD | | | | Project (Number/Name) 2261 / Joint Strike Fighter EMD | | | | |
| C. Other Program Funding Summary (\$ in Millions) | | | | | | | | | | | | |
| Line Item | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 | Cost To Complete | Total Cost | |
| • USAF SDD BP 653832: Deployability and Suitability Enhancements | 78.901 | 46.962 | 37.202 | - | 37.202 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 238.599 | |
| • PAF/0207142F BP10: F-35A JSF CTOL Advance Procurement | 460.260 | 404.500 | 780.300 | - | 780.300 | 405.200 | 1,003.600 | 965.300 | 414.700 | 13,451.541 | 20,181.883 | |
| • DCA/0207142F 676011: Dual Capable Aircraft (DCA) | 4.967 | 25.743 | 35.122 | - | 35.122 | 47.016 | 49.026 | 67.040 | 62.599 | Continuing | Continuing | |
| • APN/0147: F-35C Joint Strike Fighter CV | 1,062.542 | 939.280 | 663.232 | - | 663.232 | 1,302.363 | 2,016.259 | 2,835.305 | 2,992.701 | 30,639.555 | 55,785.279 | |
| • APN/0152C: F-35B Joint Strike Fighter STOVL AP | 203.060 | 233.648 | 413.450 | - | 413.450 | 228.492 | 231.802 | 220.822 | 225.245 | 1,959.119 | 4,802.154 | |
| • APN/0152: F-35B Joint Strike Fighter STOVL | 2,291.599 | 2,243.741 | 2,631.787 | - | 2,631.787 | 2,660.443 | 2,723.935 | 2,816.841 | 2,821.572 | 22,732.766 | 47,011.821 | |
| • DoN MILCON: DoN JSF MILCON | 94.420 | 230.900 | 64.660 | - | 64.660 | 121.990 | 119.800 | 0.000 | 0.000 | 642.400 | 1,406.074 | |
| • International 2: Intl Production/ Reprogramming Lab | 189.922 | 185.641 | 124.114 | - | 124.114 | 151.776 | 150.588 | 149.848 | 87.119 | Continuing | Continuing | |
| • OPN/4268: Logistics Information System (ALIS) | 48.773 | 39.099 | 34.032 | 29.245 | 63.277 | 32.742 | 46.073 | 47.389 | 62.299 | Continuing | Continuing | |
| • MC/0207597F: USAF MILCON Training | 65.400 | 20.000 | 21.000 | - | 21.000 | 34.000 | 15.900 | 0.000 | 0.000 | 0.000 | 156.300 | |
| • International 3: International R&D FoD/D&S | 83.595 | 84.602 | 158.273 | - | 158.273 | 159.649 | 162.023 | 167.383 | 160.111 | Continuing | Continuing | |
| • OPN 902010 S8JC: Aviation Support Equipment (ALIS) | 2.946 | 0.881 | 2.297 | - | 2.297 | 2.321 | 0.139 | 1.977 | 0.000 | Continuing | Continuing | |
| • USAF O&M: USAF O&M | 312.557 | 425.978 | 452.906 | - | 452.906 | 555.687 | 873.270 | 998.979 | 958.708 | Continuing | Continuing | |
| • USAF MILCON 0502635F: USAF MILCON Air National Guard | 0.000 | 15.100 | 0.000 | - | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 15.100 | |
| • USN 2936: F-35C Follow-on Development (CV) | 20.544 | 63.387 | 139.942 | - | 139.942 | 224.712 | 228.707 | 188.678 | 120.192 | Continuing | Continuing | |
| • International Unique: Intl Unique (SDD/PSFD) | 38.483 | 32.374 | 15.566 | - | 15.566 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 482.417 | |

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| Exhibit R-2A, RDT&E Project Justification: FY 2018 Navy | | | | | | | | | Date: May 2017 | | |
| Appropriation/Budget Activity 1319 / 5 | | | | R-1 Program Element (Number/Name) PE 0604800N / JT Strike Fighter (JSF) - EMD | | | | Project (Number/Name) 2261 / Joint Strike Fighter EMD | | | |
| C. Other Program Funding Summary (\$ in Millions) | | | | | | | | | | | |
| Line Item | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 | Cost To Complete | Total Cost |
| Remarks | | | | | | | | | | | |
| D. Acquisition Strategy | | | | | | | | | | | |
| <p>The SDD program consists of a cost-reimbursement contract awarded to Lockheed Martin Aeronautics Company to develop the F-35 Air System, consisting of three aircraft variants and its associated logistics support system, for the U.S. Services and international participants. Similarly, a cost-reimbursement contract was awarded to Pratt & Whitney to develop the F135 propulsion system. Ground and flight testing will be conducted during development to accomplish validation and verification, with the extensive use of modeling and simulation to offset the risk of this large, complex, and concurrent lifecycle program. A comprehensive logistics support environment, including an integrated training system for aircrew, maintenance, and support personnel, is also being developed.</p> <p>On 25 April 2011, the Department of Defense terminated the development of the General Electric Rolls-Royce Fighter Engine Team F136 propulsion system.</p> <p>The F-35 Program has made international involvement a key element of the acquisition strategy. This includes international partnership in the development, production, and sustainment phases of the lifecycle. Additional international participation includes Foreign Military Sales arrangements.</p> <p>In Fiscal Year 2007, separate cost-type contracts were awarded to Lockheed Martin Aeronautics Company and Pratt & Whitney to begin low rate initial production for F-35 air vehicles, propulsion systems, and sustainment for the fielded systems. Transition to fixed-price-type procurement contracts occurred with the fourth low rate lot. To provide logistics support for delivered aircraft, Performance-Based Logistics cost-type contracts will be awarded to Lockheed Martin Aeronautics Company and Pratt & Whitney.</p> <p>At the completion of Low Rate Initial Production, a Defense Acquisition Board review, and Milestone Decision Authority approval, the F-35 Program will enter Full Rate Production. Fixed-price procurement contracts will be awarded for F-35 air vehicles and propulsion systems for the U.S. Services and international participants. Multiyear procurement authority for the F-35 Air System will be requested for Full Rate Production. Concurrently, a fixed-price-type Performance Based Logistics contracts for sustainment will be requested to support multi-Service and multi-national requirements.</p> | | | | | | | | | | | |
| E. Performance Metrics | | | | | | | | | | | |
| <p>The following are the key performance parameters from the F-35 Selected Acquisition Report:</p> <p>Performance Metrics reflect Key Program Performance data.</p> <p>Combat Radius F-35A Meets/Exceeds Tripwire Requirement F-35B Meets/Exceeds Tripwire Requirement</p> | | | | | | | | | | | |

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| Exhibit R-2A, RDT&E Project Justification: FY 2018 Navy | | Date: May 2017 |
| Appropriation/Budget Activity 1319 / 5 | R-1 Program Element (Number/Name) PE 0604800N / <i>JT Strike Fighter (JSF) - EMD</i> | Project (Number/Name) 2261 / <i>Joint Strike Fighter EMD</i> |
| <p>F-35C Meets/Exceeds Tripwire Requirement</p> <p>CV Recovery Performance Maximum Approach Speed at required carrier landing weight</p> <p>Mission Reliability F-35A Meets/Exceeds Tripwire Requirement F-35B Meets/Exceeds Tripwire Requirement F-35C Meets/Exceeds Tripwire Requirement</p> <p>Sortie Generation Rate F-35A Meets Tripwire Requirement F-35B Meets Tripwire Requirement F-35C Meets Tripwire Requirement</p> <p>Logistics Footprint F-35A Less than or equal to 8 C-17 equivalents F-35B Less than or equal to 8 C-17 equivalents F-35C Less than or equal to 38,800 cu ft., 217 ST</p> | | |

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| Exhibit R-3, RDT&E Project Cost Analysis: FY 2018 Navy | | | | | | | | | | | | Date: May 2017 | | | |
|--|------------------------|----------------------------------|-------------|---------|------------|--|------------|--------------|------------|--|------------|----------------|------------------|------------|--------------------------|
| Appropriation/Budget Activity 1319 / 5 | | | | | | R-1 Program Element (Number/Name) PE 0604800N / JT Strike Fighter (JSF) - EMD | | | | Project (Number/Name) 2261 / Joint Strike Fighter EMD | | | | | |
| Product Development (\$ in Millions) | | | | FY 2016 | | FY 2017 | | FY 2018 Base | | FY 2018 OCO | | FY 2018 Total | | | |
| Cost Category Item | Contract Method & Type | Performing Activity & Location | Prior Years | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Cost To Complete | Total Cost | Target Value of Contract |
| Primary Hardware Development - SDD | C/CPIF | Lockheed Martin : Ft. Worth, TX | 30,424.313 | 795.482 | Dec 2015 | 774.642 | Dec 2016 | 274.720 | Dec 2017 | - | | 274.720 | 170.619 | 32,439.776 | 32,439.776 |
| Primary Hardware Development - Award Fee | C/CPIF | Lockheed Martin : Ft. Worth, TX | 1,709.429 | 17.830 | Dec 2015 | 11.430 | Dec 2016 | 35.000 | Dec 2017 | - | | 35.000 | 2.500 | 1,776.189 | 1,776.189 |
| Primary Hardware Development - ALIS | C/CPIF | Lockheed Martin : Ft. Worth, TX | 461.717 | 0.600 | Dec 2015 | 0.221 | Dec 2016 | 40.694 | Dec 2017 | - | | 40.694 | 27.400 | 530.632 | 530.632 |
| Primary Hardware Development - 0031 | C/CPFF | Lockheed Martin : Ft. Worth, TX | 0.337 | 0.000 | | 0.506 | Dec 2016 | 0.169 | Dec 2017 | - | | 0.169 | 0.000 | 1.012 | 1.012 |
| Primary Hardware Development - 0020 | C/CPFF | Lockheed Martin : Ft. Worth, TX | 45.120 | 36.718 | Dec 2015 | 139.281 | Dec 2016 | 21.893 | Dec 2017 | - | | 21.893 | 0.000 | 243.012 | 243.012 |
| Primary Hardware Development - 0016 | C/CPFF | Lockheed Martin : Ft. Worth, TX | 15.045 | 0.811 | Dec 2015 | 0.000 | | 0.000 | | - | | 0.000 | 0.000 | 15.856 | 15.856 |
| Primary Hardware Development - SDD | C/CPIF | Pratt and Whitney : Hartford, CT | 7,180.563 | 115.765 | Dec 2015 | 105.448 | Dec 2016 | 0.000 | | - | | 0.000 | 0.000 | 7,401.776 | 7,401.776 |
| Primary Hardware Development - Award Fee | C/CPIF | Pratt and Whitney : Hartford, CT | 670.213 | 7.433 | Dec 2015 | 14.552 | Dec 2016 | 0.000 | | - | | 0.000 | 0.000 | 692.198 | 692.198 |
| Systems Engineering | Various | Various : Various | 414.111 | 21.260 | Nov 2015 | 23.577 | Nov 2016 | 0.911 | Dec 2017 | - | | 0.911 | 0.000 | 459.859 | 459.859 |
| Prior Year No Longer Funded in FYDP | Various | Various : Various | 2,893.266 | 0.000 | | 0.000 | | 0.000 | | - | | 0.000 | 0.000 | 2,893.266 | 2,893.266 |
| Subtotal | | | 43,814.114 | 995.899 | | 1,069.657 | | 373.387 | | - | | 373.387 | 200.519 | 46,453.576 | 46,453.576 |
| Remarks | | | | | | | | | | | | | | | |
| Contract type prior to 2013 was CPAF. | | | | | | | | | | | | | | | |
| Cumulative Award Fee earned in prior years for Lockheed Martin is 86%. | | | | | | | | | | | | | | | |
| Cumulative Award Fee earned in prior years for Pratt and Whitney is 94%. | | | | | | | | | | | | | | | |
| Support (\$ in Millions) | | | | FY 2016 | | FY 2017 | | FY 2018 Base | | FY 2018 OCO | | FY 2018 Total | | | |
| Cost Category Item | Contract Method & Type | Performing Activity & Location | Prior Years | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Cost To Complete | Total Cost | Target Value of Contract |
| Development Support - AFFTC/Eglin | Various | Eglin AFB : Eglin, FL | 133.721 | 5.205 | Nov 2015 | 1.834 | Nov 2016 | 0.830 | Nov 2017 | - | | 0.830 | 0.000 | 141.590 | - |

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| Exhibit R-3, RDT&E Project Cost Analysis: FY 2018 Navy | | | | | | | | | | | | Date: May 2017 | | | |
|---|------------------------|--|-------------|---------|------------|--|------------|--------------|------------|--|------------|----------------|------------------|------------|--------------------------|
| Appropriation/Budget Activity 1319 / 5 | | | | | | R-1 Program Element (Number/Name) PE 0604800N / JT Strike Fighter (JSF) - EMD | | | | Project (Number/Name) 2261 / Joint Strike Fighter EMD | | | | | |
| Support (\$ in Millions) | | | | FY 2016 | | FY 2017 | | FY 2018 Base | | FY 2018 OCO | | FY 2018 Total | | | |
| Cost Category Item | Contract Method & Type | Performing Activity & Location | Prior Years | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Cost To Complete | Total Cost | Target Value of Contract |
| Development Support - AFLCMC/AFRL | Various | AFLCMC/AFRL : Various | 65.104 | 10.725 | Nov 2015 | 3.133 | Nov 2016 | 0.000 | | - | | 0.000 | 0.000 | 78.962 | - |
| Engine Test and Evaluation Support - AEDC/Fuel | Various | Various : Various | 191.102 | 8.845 | Nov 2015 | 3.771 | Nov 2016 | 0.000 | | - | | 0.000 | 0.000 | 203.718 | - |
| Development Support - Miscellaneous | Various | Various : Various | 110.915 | 12.601 | Nov 2015 | 12.356 | Nov 2016 | 2.927 | Nov 2017 | - | | 2.927 | 0.764 | 139.563 | - |
| Software Development Support | Various | NAWC WD : China Lake, CA | 152.642 | 10.533 | Nov 2015 | 4.312 | Nov 2016 | 0.000 | | - | | 0.000 | 0.000 | 167.487 | - |
| Development Support | Various | NAWC AD : Patuxent River, MD | 406.999 | 98.485 | Nov 2015 | 41.726 | Nov 2016 | 6.913 | Nov 2017 | - | | 6.913 | 0.000 | 554.123 | - |
| Prior Year No Longer Funded in FYDP | Various | Various : Various | 77.641 | 0.000 | | 0.000 | | 0.000 | | - | | 0.000 | 0.000 | 77.641 | - |
| Subtotal | | | 1,138.124 | 146.394 | | 67.132 | | 10.670 | | - | | 10.670 | 0.764 | 1,363.084 | - |
| Test and Evaluation (\$ in Millions) | | | | FY 2016 | | FY 2017 | | FY 2018 Base | | FY 2018 OCO | | FY 2018 Total | | | |
| Cost Category Item | Contract Method & Type | Performing Activity & Location | Prior Years | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Cost To Complete | Total Cost | Target Value of Contract |
| Developmental Test and Evaluation | Various | NAWC WD : China Lake, CA | 38.905 | 1.640 | Nov 2015 | 2.712 | Nov 2016 | 0.000 | | - | | 0.000 | 0.000 | 43.257 | - |
| Developmental Test and Evaluation | Various | NAWC AD : Patuxent River, MD | 668.838 | 83.330 | Nov 2015 | 54.944 | Nov 2016 | 4.400 | Nov 2017 | - | | 4.400 | 0.000 | 811.512 | - |
| Developmental Test and Evaluation | Various | Edwards AFB : Edwards AFB, CA | 618.609 | 65.334 | Nov 2015 | 54.976 | Nov 2016 | 4.400 | Nov 2017 | - | | 4.400 | 0.000 | 743.319 | - |
| Developmental Test and Evaluation - Other (including Classified PIDs) | Various | Other (incl Classified PIDs) : Various | 204.506 | 36.766 | Nov 2015 | 30.602 | Nov 2016 | 2.400 | Nov 2017 | - | | 2.400 | 0.000 | 274.274 | - |
| Operational Test and Evaluation Support | Various | WEPS/Eglin : Various | 27.829 | 0.000 | | 0.000 | | 0.000 | | - | | 0.000 | 0.000 | 27.829 | - |
| Operational Test and Evaluation Support | Various | OT-AFOTEC/ AFFTC : Kirkland | 179.619 | 24.926 | Nov 2015 | 35.436 | Nov 2016 | 41.976 | Nov 2017 | - | | 41.976 | 2.150 | 284.107 | - |

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| Exhibit R-3, RDT&E Project Cost Analysis: FY 2018 Navy | | | | | | | | | | | | Date: May 2017 | | | |
|--|------------------------|---|-------------|---------|------------|--|------------|--------------|------------|--|------------|----------------|------------------|------------|--------------------------|
| Appropriation/Budget Activity 1319 / 5 | | | | | | R-1 Program Element (Number/Name) PE 0604800N / JT Strike Fighter (JSF) - EMD | | | | Project (Number/Name) 2261 / Joint Strike Fighter EMD | | | | | |
| Test and Evaluation (\$ in Millions) | | | | FY 2016 | | FY 2017 | | FY 2018 Base | | FY 2018 OCO | | FY 2018 Total | | | |
| Cost Category Item | Contract Method & Type | Performing Activity & Location | Prior Years | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Cost To Complete | Total Cost | Target Value of Contract |
| | | AFB, NM/Eglin AFB, FL | | | | | | | | | | | | | |
| Operational Test and Evaluation Support | Various | OT-JITC/OPTEC : Various | 36.435 | 24.808 | Nov 2015 | 42.956 | Nov 2016 | 71.886 | Nov 2017 | - | | 71.886 | 2.143 | 178.228 | - |
| Operational Test and Evaluation Support | Various | OT-CHLK : China Lake, CA | 0.000 | 3.999 | Nov 2015 | 9.912 | Nov 2016 | 15.392 | Nov 2017 | - | | 15.392 | 0.000 | 29.303 | - |
| Operational Test and Evaluation Support | Various | OT-Various : Various | 0.105 | 7.718 | Nov 2015 | 2.775 | Nov 2016 | 3.274 | Nov 2017 | - | | 3.274 | 0.000 | 13.872 | - |
| Subtotal | | | 1,774.846 | 248.521 | | 234.313 | | 143.728 | | - | | 143.728 | 4.293 | 2,405.701 | - |
| Management Services (\$ in Millions) | | | | FY 2016 | | FY 2017 | | FY 2018 Base | | FY 2018 OCO | | FY 2018 Total | | | |
| Cost Category Item | Contract Method & Type | Performing Activity & Location | Prior Years | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Cost To Complete | Total Cost | Target Value of Contract |
| Security System High BOS | C/FP | Mantech : Arlington, VA | 0.000 | 7.845 | Dec 2015 | 8.037 | Dec 2016 | 0.000 | | - | | 0.000 | 0.000 | 15.882 | 15.882 |
| AFLCMC Civilian Pay | Various | AFLCMC CIVPAY : Wright Patterson, AFB, OH | 94.833 | 25.478 | Oct 2015 | 10.270 | Oct 2016 | 0.000 | | - | | 0.000 | 0.000 | 130.581 | - |
| Program Management Support | C/CPFF | Allutiiq : Arlington, VA | 1.934 | 0.279 | Dec 2015 | 0.192 | Dec 2016 | 0.000 | | - | | 0.000 | 0.000 | 2.405 | 2.405 |
| Facilities BOSS | WR | Various : Various | 26.070 | 6.702 | Dec 2015 | 9.013 | Dec 2016 | 0.000 | | - | | 0.000 | 0.000 | 41.785 | - |
| CIO ODCs | Various | Various : Various | 9.058 | 3.963 | Dec 2015 | 7.256 | Dec 2016 | 0.000 | | - | | 0.000 | 0.000 | 20.277 | - |
| Travel | Various | Various : Various | 21.959 | 2.871 | Oct 2015 | 2.343 | Oct 2016 | 0.088 | Dec 2017 | - | | 0.088 | 0.000 | 27.261 | - |
| Program Management Support | Various | Jacobs BOSS : Arlington, VA | 26.012 | 24.428 | Dec 2015 | 24.686 | Dec 2016 | 0.000 | | - | | 0.000 | 0.000 | 75.126 | - |
| OPS - Cost/FM/EV ACT-I | Various | OPS - Cost/FM/EV : Arlington, VA | 2.000 | 0.000 | | 3.845 | Dec 2016 | 0.000 | | - | | 0.000 | 0.000 | 5.845 | - |
| Program Management Support | Various | Andrews AFB : Camp Springs, MD | 0.242 | 0.116 | Dec 2015 | 0.135 | Dec 2016 | 0.000 | | - | | 0.000 | 0.000 | 0.493 | - |
| Prior Year No Longer Funded in FYDP | Various | Various : Various | 593.944 | 0.000 | | 0.000 | | 0.000 | | - | | 0.000 | 0.000 | 593.944 | - |

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|---|------------------------|--------------------------------|-------------|-----------|------------|--|------------|--------------|------------|-------------|------------|--|------------------|------------|--------------------------|
| Exhibit R-3, RDT&E Project Cost Analysis: FY 2018 Navy | | | | | | | | | | | | Date: May 2017 | | | |
| Appropriation/Budget Activity 1319 / 5 | | | | | | R-1 Program Element (Number/Name) PE 0604800N / JT Strike Fighter (JSF) - EMD | | | | | | Project (Number/Name) 2261 / Joint Strike Fighter EMD | | | |
| Management Services (\$ in Millions) | | | | FY 2016 | | FY 2017 | | FY 2018 Base | | FY 2018 OCO | | FY 2018 Total | | | |
| Cost Category Item | Contract Method & Type | Performing Activity & Location | Prior Years | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Cost To Complete | Total Cost | Target Value of Contract |
| Subtotal | | | 776.052 | 71.682 | | 65.777 | | 0.088 | | - | | 0.088 | 0.000 | 913.599 | - |
| Remarks | | | | | | | | | | | | | | | |
| Cumulative Award Fee earned in prior years for Stanley is 99%. | | | | | | | | | | | | | | | |
| | | | Prior Years | FY 2016 | | FY 2017 | | FY 2018 Base | | FY 2018 OCO | | FY 2018 Total | Cost To Complete | Total Cost | Target Value of Contract |
| Cost Category Subtotals | | | 47,503.136 | 1,462.496 | | 1,436.879 | | 527.873 | | - | | 527.873 | 205.576 | 51,135.960 | - |
| Joint Strike Fighter 0604800F | | | - | 497.031 | | 403.505 | | 255.745 | | - | | 255.745 | | | - |
| Joint Strike Fighter 0604800M | | | - | 495.428 | | 507.078 | | 141.534 | | - | | 141.534 | | | - |
| International Partner | | | - | 17.000 | | 22.000 | | 27.450 | | - | | 27.450 | | | - |
| Project Cost Totals | | | 47,503.136 | 453.037 | | 504.296 | | 103.144 | | - | | 103.144 | 205.576 | 51,135.960 | - |
| Remarks | | | | | | | | | | | | | | | |
| Subtotals and totals may not add due to rounding. | | | | | | | | | | | | | | | |
| NOTE 1: Prior Years reflect \$21,025.899M USAF/\$18,858.842M USN/\$2,671.382 USMC /\$4,947.013 International/Total \$47,503.136M FY 2016 reflects \$497.031M USAF/\$453.037M USN/\$495.428M USMC/\$17.000M International/Total \$1,462.496M FY 2017 reflects \$403.505M USAF/\$504.296M USN/\$507.078M USMC/\$22.000M International/Total \$1,436.879M FY 2018 reflects \$255.745M USAF/\$103.144M USN/\$141.534M USMC/\$27.450M International/Total \$ 527.873M | | | | | | | | | | | | | | | |
| JSF EMD Includes: USAF PE 0604800F BPAC 653831 USN PE 0604800N Project Unit 2261 USMC PE 0604800M Project Unit 2262 | | | | | | | | | | | | | | | |
| D&S Includes: USAF PE 0604800F BPAC 653832 USN PE 0604800N Project Unit 3352 USMC PE 0604800M Project Unit 3350 | | | | | | | | | | | | | | | |

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Exhibit R-4, RDT&E Schedule Profile: FY 2018 Navy

Date: May 2017

Appropriation/Budget Activity

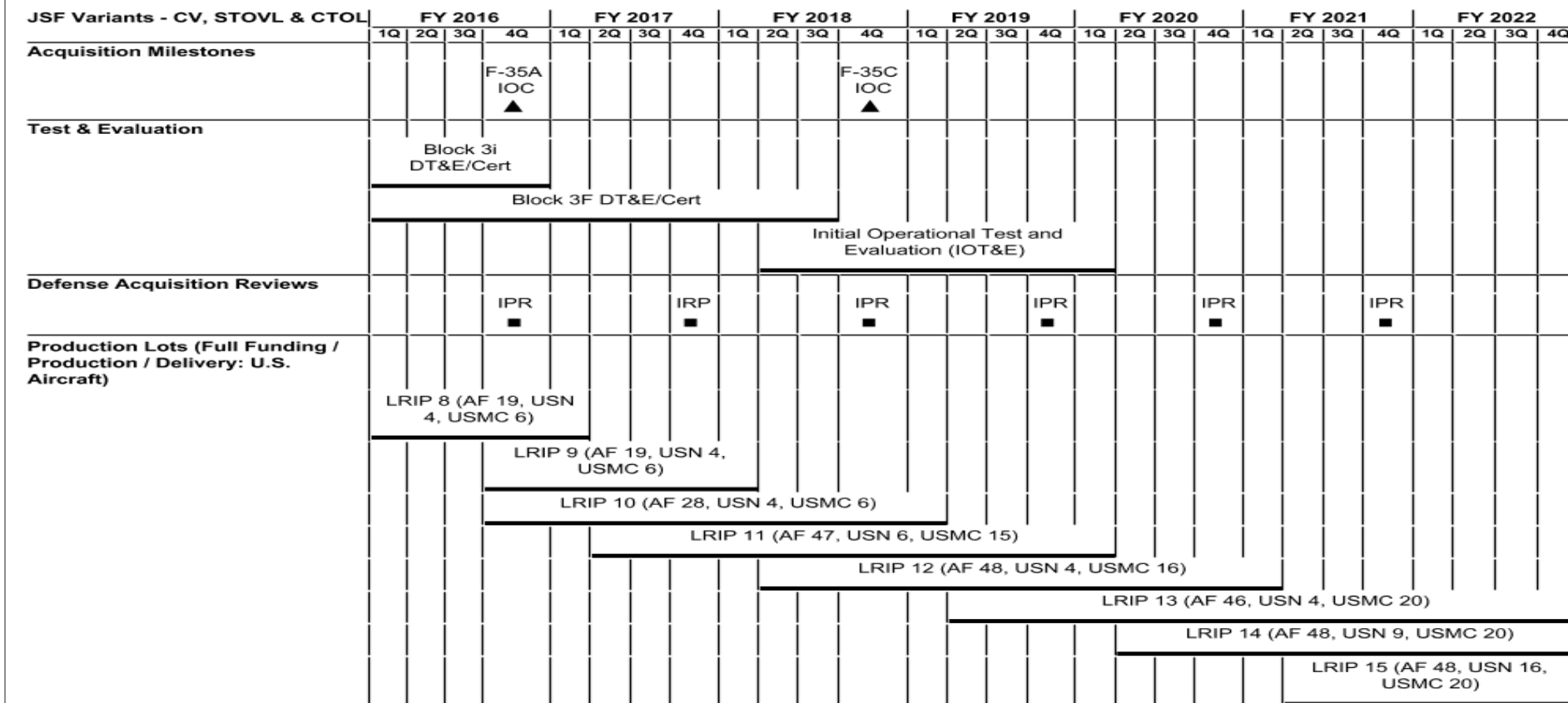
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R-1 Program Element (Number/Name)

PE 0604800N / JT Strike Fighter (JSF) - EMD

Project (Number/Name)

2261 / Joint Strike Fighter EMD



2018PB - 0604800N - 2261

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| Exhibit R-4A, RDT&E Schedule Details: FY 2018 Navy | | | Date: May 2017 |
| Appropriation/Budget Activity 1319 / 5 | R-1 Program Element (Number/Name) PE 0604800N / JT Strike Fighter (JSF) - EMD | Project (Number/Name) 2261 / Joint Strike Fighter EMD | |

Schedule Details

| Events by Sub Project | Start | | End | |
|---|----------------|-------------|----------------|-------------|
| | Quarter | Year | Quarter | Year |
| JSF Variants - CV, STOVL & CTOL | | | | |
| Acquisition Milestones: F-35A Initial Operational Capability | 4 | 2016 | 4 | 2016 |
| Acquisition Milestones: F-35C Initial Operational Capability | 4 | 2018 | 4 | 2018 |
| Test & Evaluation: Test and Evaluation: Block 3i DT&E/Cert | 1 | 2016 | 4 | 2016 |
| Test & Evaluation: Test and Evaluation: Block 3F DT&E/Cert | 1 | 2016 | 3 | 2018 |
| Test & Evaluation: Test and Evaluation: Initial Operational Test and Evaluation (IOT&E) | 2 | 2018 | 1 | 2020 |
| Defense Acquisition Reviews: System Development Reviews: Interim Program Review (IPR) FY-16 | 4 | 2016 | 4 | 2016 |
| Defense Acquisition Reviews: System Development Reviews: Interim Program Review (IPR) FY-17 | 4 | 2017 | 4 | 2017 |
| Defense Acquisition Reviews: System Development Reviews: Interim Program Review (IPR) FY-18 | 4 | 2018 | 4 | 2018 |
| Defense Acquisition Reviews: System Development Reviews: Interim Program Review (IPR) FY-19 | 4 | 2019 | 4 | 2019 |
| Defense Acquisition Reviews: System Development Reviews: Interim Program Review (IPR) FY-20 | 4 | 2020 | 4 | 2020 |
| Defense Acquisition Reviews: System Development Reviews: Interim Program Review (IPR) FY-21 | 4 | 2021 | 4 | 2021 |
| Production Lots (Full Funding / Production / Delivery: U.S. Aircraft): LRIP 8 Full Funding / Production / Delivery | 1 | 2016 | 1 | 2017 |
| Production Lots (Full Funding / Production / Delivery: U.S. Aircraft): LRIP 9 Full Funding / Production / Delivery | 4 | 2016 | 1 | 2018 |
| Production Lots (Full Funding / Production / Delivery: U.S. Aircraft): LRIP 10 Full Funding / Production / Delivery | 4 | 2016 | 1 | 2019 |

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| Exhibit R-4A, RDT&E Schedule Details: FY 2018 Navy | | | Date: May 2017 | | |
| Appropriation/Budget Activity 1319 / 5 | | R-1 Program Element (Number/Name) PE 0604800N / JT Strike Fighter (JSF) - EMD | | Project (Number/Name) 2261 / Joint Strike Fighter EMD | |
| | | Start | | End | |
| Events by Sub Project | | Quarter | Year | Quarter | Year |
| Production Lots (Full Funding / Production / Delivery: U.S. Aircraft): LRIP 11 Full Funding / Production / Delivery | | 2 | 2017 | 1 | 2020 |
| Production Lots (Full Funding / Production / Delivery: U.S. Aircraft): LRIP 12 Full Funding / Production / Delivery | | 2 | 2018 | 1 | 2021 |
| Production Lots (Full Funding / Production / Delivery: U.S. Aircraft): LRIP 13 Full Funding / Production / Delivery | | 2 | 2019 | 4 | 2022 |
| Production Lots (Full Funding / Production / Delivery: U.S. Aircraft): LRIP 14 Full Funding / Production / Delivery | | 2 | 2020 | 4 | 2022 |
| Production Lots (Full Funding / Production / Delivery: U.S. Aircraft): LRIP 15 Full Funding / Production / Delivery | | 2 | 2021 | 4 | 2022 |

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|--|-------------|---------|---------|--------------|--|---------------|---------|---------|---|----------------|------------------|------------|
| Exhibit R-2A, RDT&E Project Justification: FY 2018 Navy | | | | | | | | | | Date: May 2017 | | |
| Appropriation/Budget Activity 1319 / 5 | | | | | R-1 Program Element (Number/Name) PE 0604800N / JT Strike Fighter (JSF) - EMD | | | | Project (Number/Name) 3352 / F-35C Sustainment/Capability Enhancements | | | |
| COST (\$ in Millions) | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 | Cost To Complete | Total Cost |
| 3352: F-35C Sustainment/Capability Enhancements | 136.307 | 35.666 | 24.420 | 5.787 | - | 5.787 | 4.995 | 0.000 | 0.000 | 0.000 | 0.000 | 207.175 |
| Quantity of RDT&E Articles | | - | - | - | - | - | - | - | - | - | | |
| Project MDAP/MAIS Code: 198 | | | | | | | | | | | | |
| Note | | | | | | | | | | | | |
| Total cost including United States Navy (USN), United States Marine Corps (USMC), United States Air Force (USAF) and International Partner contributions funding is: FY16 \$184.378M, FY17 \$108.761M and FY18 \$61.270M | | | | | | | | | | | | |
| R-2A table shown above reflect service funding only. | | | | | | | | | | | | |
| R-2A (section B)/R-3 displays total combined program (i.e. not Service-specific), including International partners. | | | | | | | | | | | | |
| D&S Includes: USAF PE 64800F BPAC 653832 USN PE 0604800N Project Unit 3352 USMC PE 0604800M Project Unit 3350 | | | | | | | | | | | | |
| A. Mission Description and Budget Item Justification | | | | | | | | | | | | |
| Funds enhancements to the deployability and suitability of the air system such as low observable (LO) maintenance enhancements, security architecture updates, redesign of obsolete items, and integrated training simulators. These enhancements will provide vital on-demand support to the war-fighter within a deployed environment and are not funded via the existing System Development and Demonstration (SDD) program or tied to Block 4 Operational Flight Program development. Funding will result in achieving targeted suitability, maintainability, and affordability returns employing the F-35 in deployed or austere locations. | | | | | | | | | | | | |
| -Funding at the accomplishment/planned program level is reported as the total of all services as these activities support all aircraft variants. By agreement, USN and USMC funding shares are approximately equal and when combined are equal to the USAF share. | | | | | | | | | | | | |
| B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each) | | | | | | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | |
| Title: Sustainment and Capability Enhancements | | | | | | | 118.070 | 64.064 | 26.030 | 0.000 | 26.030 | |
| Articles: | | | | | | | - | - | - | - | - | |
| Description: Apply disciplined systems engineering, refinement of requirements, develop and acquire | | | | | | | | | | | | |

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| Exhibit R-2A, RDT&E Project Justification: FY 2018 Navy | | | | Date: May 2017 | | |
| Appropriation/Budget Activity 1319 / 5 | | R-1 Program Element (Number/Name) PE 0604800N / JT Strike Fighter (JSF) - EMD | | Project (Number/Name) 3352 / F-35C Sustainment/Capability Enhancements | | |
| B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each) | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
| suitability and maintainability of the air system such as decentralized maintenance capabilities, LO maintenance enhancements, security architecture updates, redesign of obsolete items and integrated training simulators. | | | | | | |
| FY 2016 Accomplishments: Continue to conduct systems engineering, technical maturation, integration and test planning for suitability and deployability enhancements. Increase is to perform sustaining engineering, development and test activities necessary to gain capacity, compatibility, and expansion in wiring, power, wing conduits, etc. in support of electronic warfare. This includes funding for suitability enhancements such as Standard Operating Unit Version 2 and Band 2/5 efforts. | | | | | | |
| FY 2017 Plans: Continue to conduct systems engineering, technical maturation, integration and test planning for suitability and deployability enhancements. Increase is to perform sustaining engineering, development and test activities necessary to gain capacity, compatibility, and expansion in wiring, power, wing conduits, etc. in support of electronic warfare. This includes funding for suitability enhancements such as Standard Operating Unit Version 2 and Band 2/5 efforts. | | | | | | |
| FY 2018 Base Plans: Continue to conduct systems engineering, technical maturation, integration and test planning for suitability and deployability enhancements. Increase is to perform sustaining engineering, development and test activities necessary to gain capacity, compatibility, and expansion in wiring, power, wing conduits, etc. in support of electronic warfare. This includes funding for suitability enhancements such as Standard Operating Unit Version 2 and Band 2/5 efforts. | | | | | | |
| FY 2018 OCO Plans: N/A | | | | | | |
| Title: Development Support | | 16.592 | 3.556 | 1.000 | 0.000 | 1.000 |
| Articles: | | - | - | - | - | - |
| Description: SDD support efforts for airframe, air vehicle systems, mission systems, weapons integration, mission support, and autonomic logistics development activities. | | | | | | |
| FY 2016 Accomplishments: | | | | | | |

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| Exhibit R-2A, RDT&E Project Justification: FY 2018 Navy | | | | Date: May 2017 | | |
| Appropriation/Budget Activity 1319 / 5 | | R-1 Program Element (Number/Name) PE 0604800N / JT Strike Fighter (JSF) - EMD | | Project (Number/Name) 3352 / F-35C Sustainment/Capability Enhancements | | |
| B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each) | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
| Continue to initiate development enhancement support for Deployable Autonomic Logistics Information System, decentralized maintenance capabilities, Low Observable maintenance enhancements, security architecture updates, redesign of obsolete items, and integrated training simulators. FY 2017 Plans: Continue SDD support efforts for airframe, air vehicle systems, mission systems, weapons integration, mission support, and autonomic logistics development activities. Development Support decrease is due to across the board reduction between both services. FY 2018 Base Plans: Continue SDD support efforts for airframe, air vehicle systems, mission systems, weapons integration, mission support, and autonomic logistics development activities. Development Support decrease is due to across the board reduction between both services. FY 2018 OCO Plans: N/A | | | | | | |
| Title: Development Test and Evaluation Articles: Description: Verification and testing for deployability and suitability enhancements. FY 2016 Accomplishments: Continue to initiate government test and evaluaton of capability enhancements for Deployable Autonomic Logistics Information System, and LO maintenance enhancements. FY 2017 Plans: Continue to initiate government test and evaluaton of capability enhancements for Deployable Autonomic Logistics Information System, and LO maintenance enhancements. FY 2018 Base Plans: Continue to initiate government test and evaluaton of capability enhancements for Deployable Autonomic Logistics Information System, and LO maintenance enhancements. FY 2018 OCO Plans: N/A | | 1.609 - | 1.440 - | 0.500 - | 0.000 - | 0.500 - |
| Title: Autonomic Logistics Information System | | 48.107 | 39.701 | 33.740 | 0.000 | 33.740 |

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|--|---------|---------|--------------|--|---------------|---------|---------|---|----------------|------------------|--------------|-------------|---------------|
| Exhibit R-2A, RDT&E Project Justification: FY 2018 Navy | | | | | | | | | Date: May 2017 | | | | |
| Appropriation/Budget Activity 1319 / 5 | | | | R-1 Program Element (Number/Name) PE 0604800N / JT Strike Fighter (JSF) - EMD | | | | Project (Number/Name) 3352 / F-35C Sustainment/Capability Enhancements | | | | | |
| B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each) | | | | | | | | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
| Articles: | | | | | | | | | - | - | - | - | - |
| Description: SDD execution of Autonomic Logistics Information System (ALIS) develops the information infrastructure used to transmit health and maintenance action information for the aircraft to the appropriate users. | | | | | | | | | | | | | |
| FY 2016 Accomplishments: SDD execution of Autonomic Logistics Information System (ALIS) develops the information infrastructure used to transmit health and maintenance action information for the aircraft to the appropriate users. | | | | | | | | | | | | | |
| FY 2017 Plans: SDD execution of Autonomic Logistics Information System (ALIS) develops the information infrastructure used to transmit health and maintenance action information for the aircraft to the appropriate users. | | | | | | | | | | | | | |
| FY 2018 Base Plans: SDD execution of Autonomic Logistics Information System (ALIS) develops the information infrastructure used to transmit health and maintenance action information for the aircraft to the appropriate users. | | | | | | | | | | | | | |
| FY 2018 OCO Plans: N/A | | | | | | | | | | | | | |
| Accomplishments/Planned Programs Subtotals | | | | | | | | | 184.378 | 108.761 | 61.270 | 0.000 | 61.270 |
| Joint Strike Fighter 0604800F | | | | | | | | | 78.901 | 46.962 | 37.202 | - | 37.202 |
| Joint Strike Fighter 0604800M 3350 | | | | | | | | | 30.819 | 24.348 | 11.400 | - | 11.400 |
| International Partner | | | | | | | | | 38.992 | 13.031 | 6.881 | - | 6.881 |
| Navy Subtotals | | | | | | | | | 35.666 | 24.420 | 5.787 | 0.000 | 5.787 |
| C. Other Program Funding Summary (\$ in Millions) | | | | | | | | | | | | | |
| Line Item | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 | Cost To Complete | Total Cost | | |
| • RDT&E/0604800F: F-35A | 497.031 | 403.505 | 255.745 | - | 255.745 | 69.655 | 7.796 | 5.598 | 0.000 | 0.000 | 22,265.229 | | |
| Joint Strike Fighter SDD | | | | | | | | | | | | | |
| • International: | 17.000 | 22.000 | 27.450 | - | 27.450 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 5,013.463 | | |
| International Partner (SDD) | | | | | | | | | | | | | |

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| Exhibit R-2A, RDT&E Project Justification: FY 2018 Navy | | | | | | | | | | Date: May 2017 | | |
|---|-----------|-----------|-----------------|--|------------------|-----------|-----------|---|-----------|---------------------|-------------|--|
| Appropriation/Budget Activity 1319 / 5 | | | | R-1 Program Element (Number/Name) PE 0604800N / JT Strike Fighter (JSF) - EMD | | | | Project (Number/Name) 3352 / F-35C Sustainment/Capability Enhancements | | | | |
| C. Other Program Funding Summary (\$ in Millions) | | | | | | | | | | | | |
| Line Item | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 | Cost To Complete | Total Cost | |
| • APAF/0207142F BP10: F-35A USAF CTOL | 5,259.812 | 4,997.394 | 4,544.684 | - | 4,544.684 | 4,253.696 | 4,209.813 | 4,862.684 | 4,796.042 | 144,128.756 | 198,657.199 | |
| • RDT&E/0604800M/2262: F-35B JT Strike Fighter (JSF) - EMD | 495.428 | 507.078 | 141.534 | - | 141.534 | 55.952 | 1.727 | 0.547 | 0.564 | 0.000 | 48,705.966 | |
| • APN/0605B: F-35B Joint Strike Fighter STOVL Spares | 111.569 | 123.252 | 105.671 | - | 105.671 | 92.198 | 160.150 | 140.989 | 143.809 | Continuing | Continuing | |
| • APN/0605C: F-35 Joint Strike Fighter CV Spares | 59.914 | 26.076 | 84.591 | - | 84.591 | 44.971 | 52.858 | 303.608 | 309.680 | Continuing | Continuing | |
| • MILCON 0207142F: USAF MILCON Operations | 132.850 | 305.700 | 80.000 | - | 80.000 | 27.500 | 0.000 | 0.000 | 0.000 | 1,312.100 | 2,511.350 | |
| • APAF/0207142F BP11: USAF Modification Funding | 70.167 | 175.811 | 68.270 | - | 68.270 | 230.448 | 279.814 | 259.978 | 301.899 | Continuing | Continuing | |
| • FOD/0207142F: USAF Follow-on Development (FoD) | 47.023 | 127.302 | 299.408 | - | 299.408 | 463.321 | 474.971 | 396.488 | 263.548 | Continuing | Continuing | |
| • 0207142F/USAF BP16: USAF Joint Strike Fighter Initial Spares | 229.582 | 362.792 | 320.831 | - | 320.831 | 319.151 | 416.722 | 399.361 | 394.654 | 3,893.112 | 7,567.519 | |
| • USAF/OPAF 0207142F: USAF OPAF | 3.858 | 2.333 | 3.326 | - | 3.326 | 3.310 | 2.993 | 2.463 | 2.507 | Continuing | Continuing | |
| • APN/0592: F-35B STOVL Series | 204.464 | 34.928 | 34.963 | - | 34.963 | 70.305 | 67.039 | 79.174 | 80.761 | Continuing | Continuing | |
| • APN/0593: F-35C CV Series | 48.527 | 26.004 | 31.689 | - | 31.689 | 22.344 | 14.155 | 13.404 | 13.672 | Continuing | Continuing | |
| • RDT&E/0604800M/3350: F-35B Sustainment/ Capability Enhancements | 30.819 | 24.348 | 11.400 | - | 11.400 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 202.874 | |
| • USAF SDD BP 653832: Deployability and Suitability Enhancements | 78.901 | 46.962 | 37.202 | - | 37.202 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 238.599 | |
| • PAF/0207142F BP10: F-35A CTOL Advance Procurement | 460.260 | 404.500 | 780.300 | - | 780.300 | 405.200 | 1,003.600 | 965.300 | 414.700 | 13,451.541 | 20,181.883 | |
| • DCA/0207142F 676011: Dual Capable Aircraft (DCA) | 4.967 | 25.743 | 35.122 | - | 35.122 | 47.016 | 49.026 | 67.040 | 62.599 | Continuing | Continuing | |
| • APN/0147: F-35C Joint Strike Fighter CV | 1,062.542 | 939.280 | 663.232 | - | 663.232 | 1,302.363 | 2,016.259 | 2,835.305 | 2,992.701 | 30,639.555 | 55,785.279 | |

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|--|-----------|-----------|-----------------|--|------------------|-----------|-----------|---|-----------|---------------------|------------|--|
| Exhibit R-2A, RDT&E Project Justification: FY 2018 Navy | | | | | | | | | | Date: May 2017 | | |
| Appropriation/Budget Activity 1319 / 5 | | | | R-1 Program Element (Number/Name) PE 0604800N / JT Strike Fighter (JSF) - EMD | | | | Project (Number/Name) 3352 / F-35C Sustainment/Capability Enhancements | | | | |
| C. Other Program Funding Summary (\$ in Millions) | | | | | | | | | | | | |
| Line Item | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 | Cost To Complete | Total Cost | |
| • APN/0152C: F-35B Joint Strike Fighter STOVL AP | 203.060 | 233.648 | 413.450 | - | 413.450 | 228.492 | 231.802 | 220.822 | 225.245 | 1,959.119 | 4,802.154 | |
| • APN/0152: F-35B Joint Strike Fighter STOVL | 2,291.599 | 2,243.741 | 2,631.787 | - | 2,631.787 | 2,660.443 | 2,723.935 | 2,816.841 | 2,821.572 | 22,732.766 | 47,011.821 | |
| • DoN MILCON: DoN JSF MILCON | 94.420 | 230.900 | 64.660 | - | 64.660 | 121.990 | 119.800 | 0.000 | 0.000 | 642.400 | 1,406.074 | |
| • International 2: International Procduction/Reprogramming Lab | 189.922 | 185.641 | 124.114 | - | 124.114 | 151.776 | 150.588 | 149.848 | 87.119 | Continuing | Continuing | |
| • OPN/4268: Logistics Information System (ALIS) | 48.773 | 39.099 | 34.032 | 29.245 | 63.277 | 32.742 | 46.073 | 47.389 | 62.299 | Continuing | Continuing | |
| • MC/0207597F: USAF MILCON Training | 65.400 | 20.000 | 21.000 | - | 21.000 | 34.000 | 15.900 | 0.000 | 0.000 | 0.000 | 156.300 | |
| • International 3: International FoM/D&S | 83.595 | 84.602 | 158.273 | - | 158.273 | 159.649 | 162.023 | 167.383 | 160.111 | Continuing | Continuing | |
| • OPN 902010 S8JC: Aviation Support Equipment (ALIS) | 2.946 | 0.881 | 2.297 | - | 2.297 | 2.321 | 0.139 | 1.977 | 0.000 | Continuing | Continuing | |
| • USAF O&M: USAF O&M | 312.557 | 425.978 | 452.906 | - | 452.906 | 555.687 | 873.270 | 998.979 | 958.708 | Continuing | Continuing | |
| • USAF MILCON 0502635F: USAF MILCON Air National Guard | 0.000 | 15.100 | 0.000 | - | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 15.100 | |
| • USN 2936: F-35C Follow-on Development (CV) | 20.544 | 63.387 | 139.942 | - | 139.942 | 224.712 | 228.707 | 188.678 | 120.192 | Continuing | Continuing | |
| • International Unique: Intl Unique (SDD/PSFD) | 38.483 | 32.374 | 15.566 | - | 15.566 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 482.417 | |
| Remarks | | | | | | | | | | | | |
| D. Acquisition Strategy | | | | | | | | | | | | |
| Implement Joint Strike Fighter Joint Executive Steering Board/Configuration Steering Board approved enhancements through existing contracts using the engineering change proposal process. When appropriate, new cost type contracts may be established. | | | | | | | | | | | | |
| E. Performance Metrics | | | | | | | | | | | | |
| The following are the key performance parameters from the F-35 Selected Acquisition Report: | | | | | | | | | | | | |
| Performance Metrics reflect Key Program Performance data. | | | | | | | | | | | | |

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| Exhibit R-2A, RDT&E Project Justification: FY 2018 Navy | | Date: May 2017 |
| Appropriation/Budget Activity 1319 / 5 | R-1 Program Element (Number/Name) PE 0604800N / <i>JT Strike Fighter (JSF) - EMD</i> | Project (Number/Name) 3352 / <i>F-35C Sustainment/Capability Enhancements</i> |
| <p>Combat Radius</p> <p>F-35A Meets/Exceeds Tripwire Requirement</p> <p>F-35B Meets/Exceeds Tripwire Requirement</p> <p>F-35C Meets/Exceeds Tripwire Requirement</p> <p>F-35B Performance</p> <p>Flat Deck (High-High-High Profile Fuel) Meets Requirement In Tripwire Band</p> <p>Ski Jump (High-Medium-Medium-High Profile Fuel) Meets Requirement In Tripwire Band</p> <p>Vertical Landing Bring Back Meets Requirement In Tripwire Band</p> <p>F-35C Recovery</p> <p>Maximum Approach Speed Meets Requirement In Tripwire Band</p> <p>Interoperability</p> <p>Net Ready Criteria- Meets Requirement In Tripwire Band</p> <p>Radio Frequency Signature Meets/Exceeds Tripwire Requirement</p> <p>Force Protection</p> <p>CB Pilot Protection (New Key Performance Parameters Per CN3) - Meets/Exceeds Tripwire Requirement</p> <p>Mission Reliability</p> <p>F-35A Meets/Exceeds Tripwire Requirement</p> <p>F-35B United States Marine Corps (USMC) Meets/Exceeds Tripwire Requirement</p> <p>F-35B United Kingdom (UK) Meets/Exceeds Tripwire Requirement</p> <p>F-35C Exceeds Operational Requirements Document Objective</p> <p>Sortie Generation Rate</p> <p>F-35A Meets/Exceeds Tripwire Requirement</p> <p>F-35B USMC Meets/Exceeds Tripwire Requirement</p> <p>F-35B UK Meets/Exceeds Tripwire Requirement</p> <p>F-35C Meets/Exceeds Tripwire Requirement</p> <p>Logistics Footprints</p> | | |

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| Exhibit R-2A, RDT&E Project Justification: FY 2018 Navy | | Date: May 2017 |
| Appropriation/Budget Activity 1319 / 5 | R-1 Program Element (Number/Name) PE 0604800N / <i>JT Strike Fighter (JSF) - EMD</i> | Project (Number/Name) 3352 / <i>F-35C Sustainment/Capability Enhancements</i> |
| <p>F-35A Meets/Exceeds Tripwire Requirement</p> <p>F-35B USMC Meets/Exceeds Tripwire Requirement</p> <p>Logistics Footprint- Volume</p> <p>F-35B USMC Exceeds ORD Objective</p> <p>F-35B UK Meets/Exceeds Tripwire Requirement</p> <p>F-35C Exceeds Operational Requirements Document (ORD) Objective</p> <p>Logistics Footprint-Weight</p> <p>F-35B USMC Exceeds ORD Objective</p> <p>F-35B UK Meets/Exceeds Tripwire Requirement</p> <p>F-35C Exceeds ORD Objective</p> | | |

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|--|------------------------|----------------------------------|-------------|---------|------------|--|------------|--------------|------------|---|------------|----------------|------------------|------------|--------------------------|
| Exhibit R-3, RDT&E Project Cost Analysis: FY 2018 Navy | | | | | | | | | | | | Date: May 2017 | | | |
| Appropriation/Budget Activity 1319 / 5 | | | | | | R-1 Program Element (Number/Name) PE 0604800N / JT Strike Fighter (JSF) - EMD | | | | Project (Number/Name) 3352 / F-35C Sustainment/Capability Enhancements | | | | | |
| Product Development (\$ in Millions) | | | | FY 2016 | | FY 2017 | | FY 2018 Base | | FY 2018 OCO | | FY 2018 Total | | | |
| Cost Category Item | Contract Method & Type | Performing Activity & Location | Prior Years | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Cost To Complete | Total Cost | Target Value of Contract |
| Primary Hardware Development - 3002 SDD | C/CPFF | Lockheed Martin : Fort Worth, TX | 0.000 | 41.330 | Mar 2016 | 35.844 | Mar 2017 | 23.655 | Mar 2018 | - | | 23.655 | 4.995 | 105.824 | 105.824 |
| Primary Hardware Development - 3002 ALIS | C/CPFF | Lockheed Martin : Fort Worth, TX | 87.723 | 48.107 | Mar 2016 | 39.701 | Mar 2017 | 33.740 | Mar 2018 | - | | 33.740 | 0.000 | 209.271 | 209.271 |
| Primary Hardware Development -14-C-002 Band 2/5 | C/CPFF | Lockheed Martin : Fort Worth, TX | 15.590 | 76.740 | Mar 2016 | 28.220 | Mar 2017 | 2.375 | Mar 2018 | - | | 2.375 | 0.000 | 122.925 | 122.925 |
| Subtotal | | | 103.313 | 166.177 | | 103.765 | | 59.770 | | - | | 59.770 | 4.995 | 438.020 | 438.020 |
| Remarks | | | | | | | | | | | | | | | |
| Cumulative Award Fee earned for Lockheed Martin 0%. | | | | | | | | | | | | | | | |
| Support (\$ in Millions) | | | | FY 2016 | | FY 2017 | | FY 2018 Base | | FY 2018 OCO | | FY 2018 Total | | | |
| Cost Category Item | Contract Method & Type | Performing Activity & Location | Prior Years | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Cost To Complete | Total Cost | Target Value of Contract |
| Development Support | Various | AFLCMC : Eglin AFB | 19.720 | 13.781 | Mar 2016 | 0.000 | | 0.000 | | - | | 0.000 | 0.000 | 33.501 | - |
| Development Support | Various | Various : Various | 11.668 | 0.700 | Mar 2016 | 2.410 | Mar 2017 | 1.000 | Mar 2018 | - | | 1.000 | 0.000 | 15.778 | - |
| Subtotal | | | 31.388 | 14.481 | | 2.410 | | 1.000 | | - | | 1.000 | 0.000 | 49.279 | - |
| Test and Evaluation (\$ in Millions) | | | | FY 2016 | | FY 2017 | | FY 2018 Base | | FY 2018 OCO | | FY 2018 Total | | | |
| Cost Category Item | Contract Method & Type | Performing Activity & Location | Prior Years | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Cost To Complete | Total Cost | Target Value of Contract |
| Developmental Test & Evaluation | WR | Various : Various | 0.606 | 1.404 | Mar 2016 | 0.976 | Mar 2017 | 0.500 | Mar 2018 | - | | 0.500 | 0.000 | 3.486 | - |
| Subtotal | | | 0.606 | 1.404 | | 0.976 | | 0.500 | | - | | 0.500 | 0.000 | 3.486 | - |
| | | | | | | | | | | | | | | | |

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| Exhibit R-3, RDT&E Project Cost Analysis: FY 2018 Navy | | | | | | | | | | | | Date: May 2017 | | | |
| Appropriation/Budget Activity 1319 / 5 | | | | | | R-1 Program Element (Number/Name) PE 0604800N / JT Strike Fighter (JSF) - EMD | | | | Project (Number/Name) 3352 / F-35C Sustainment/Capability Enhancements | | | | | |
| Management Services (\$ in Millions) | | | | FY 2016 | | FY 2017 | | FY 2018 Base | | FY 2018 OCO | | FY 2018 Total | | | |
| Cost Category Item | Contract Method & Type | Performing Activity & Location | Prior Years | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Cost To Complete | Total Cost | Target Value of Contract |
| Program Support | Various | Various : Various | 1.000 | 2.316 | Mar 2016 | 1.610 | Mar 2017 | 0.000 | | - | | 0.000 | 0.000 | 4.926 | - |
| Subtotal | | | 1.000 | 2.316 | | 1.610 | | 0.000 | | - | | 0.000 | 0.000 | 4.926 | - |
| | | | Prior Years | FY 2016 | | FY 2017 | | FY 2018 Base | | FY 2018 OCO | | FY 2018 Total | Cost To Complete | Total Cost | Target Value of Contract |
| Cost Category Subtotals | | | 136.307 | 184.378 | | 108.761 | | 61.270 | | - | | 61.270 | 4.995 | 495.711 | - |
| Joint Strike Fighter 0604800F | | | - | 78.901 | | 46.962 | | 37.202 | | - | | 37.202 | | | - |
| Joint Strike Fighter 0604800M 3350 | | | - | 30.819 | | 24.348 | | 11.400 | | - | | 11.400 | | | - |
| International Partner | | | - | 38.992 | | 13.031 | | 6.881 | | - | | 6.881 | | | - |
| Project Cost Totals | | | 136.307 | 35.666 | | 24.420 | | 5.787 | | - | | 5.787 | 4.995 | 495.711 | - |
| Remarks | | | | | | | | | | | | | | | |
| NOTE: Prior Years reflect \$75.534M USAF/\$32.852M USN/\$27.921M USMC/\$0.000M International/Total \$136.307M FY 2016 reflects \$78.901M USAF/\$35.666M USN/\$30.819M USMC/\$38.992M International/Total \$184.378M FY 2017 reflects \$46.962M USAF/\$24.420M USN/\$24.348M USMC/\$13.031M International/Total \$108.761M FY 2018 reflects \$37.202M USAF/\$ 5.787M USN/\$11.400M USMC/\$ 6.881M International/Total \$ 61.270M | | | | | | | | | | | | | | | |
| R-2A (section B)/R-3 displays total combined program (i.e. not Service-specific), including International partners. | | | | | | | | | | | | | | | |
| JSF EMD Includes: USAF PE 0604800F BPAC 653831 USN PE 0604800N Project Unit 2261 USMC PE 0604800M Project Unit 2262 | | | | | | | | | | | | | | | |
| D&S Includes: USAF PE 0604800F BPAC 653832 USN PE 0604800N Project Unit 3352 USMC PE 0604800M Project Unit 3350 | | | | | | | | | | | | | | | |

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Exhibit R-4, RDT&E Schedule Profile: FY 2018 Navy

Date: May 2017

Appropriation/Budget Activity

1319 / 5

R-1 Program Element (Number/Name)

PE 0604800N / JT Strike Fighter (JSF) - EMD

Project (Number/Name)

3352 / F-35C Sustainment/Capability Enhancements

Proj 3352

FY 2016

FY 2017

FY 2018

FY 2019

FY 2020

FY 2021

FY 2022

1Q

2Q

3Q

4Q

1Q

2Q

3Q

4Q

1Q

2Q

3Q

4Q

1Q

2Q

3Q

4Q

1Q

2Q

3Q

4Q

1Q

2Q

3Q

4Q

1Q

2Q

3Q

4Q

1Q

2Q

3Q

4Q

D&S

SOUv2

Band 2/5

Security Architecture

OMS

DMT/DMO

2018OSD - 0604800N - 3352

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|---|--|---|
| Exhibit R-4A, RDT&E Schedule Details: FY 2018 Navy | | Date: May 2017 |
| Appropriation/Budget Activity 1319 / 5 | R-1 Program Element (Number/Name) PE 0604800N / <i>JT Strike Fighter (JSF) - EMD</i> | Project (Number/Name) 3352 / <i>F-35C Sustainment/Capability Enhancements</i> |

Schedule Details

| Events by Sub Project | Start | | End | |
|--|---------|------|---------|------|
| | Quarter | Year | Quarter | Year |
| <i>Proj 3352</i> | | | | |
| D&S: Standard Operating Unit (SOUv2) | 1 | 2016 | 4 | 2018 |
| D&S: Band 2/5 | 3 | 2016 | 3 | 2018 |
| D&S: Security Architecture | 1 | 2016 | 3 | 2018 |
| D&S: Offboard Mission Support (OMS) Redesign | 1 | 2016 | 4 | 2018 |
| D&S: Distributed Mission Training/Distributed Mission Operations (DMT/DMO) | 1 | 2016 | 2 | 2019 |