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|---|-------------|---------|---------|--------------|--|---------------|-------------|---------------|---------|----------------|------------------|------------|
| Exhibit R-2, RDT&E Budget Item Justification: FY 2018 Navy  |             |         |         |              |  |               |             |               |         | Date: May 2017 |                  |            |
| Appropriation/Budget Activity<br>1319: Research, Development, Test & Evaluation, Navy I BA 5: System Development & Demonstration (SDD)  |             |         |         |              | R-1 Program Element (Number/Name)<br>PE 0605327N I (U)T-AO 205 Class |               |             |               |         |                |                  |            |
| 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   | 0.000       | 0.000   | 1.095   | 1.961        | -  | 1.961         | 1.312       | 1.916         | 0.914   | 0.930          | Continuing       | Continuing |
| 3375: T-AO 205 Class Development  | 0.000       | 0.000   | 1.095   | 1.961        | -  | 1.961         | 1.312       | 1.916         | 0.914   | 0.930          | Continuing       | Continuing |
| Program MDAP/MAIS Code:<br>Project MDAP/MAIS Code(s): P452  |             |         |         |              |  |               |             |               |         |                |                  |            |
| A. Mission Description and Budget Item Justification<br>T-AO 205 John Lewis Fleet Oiler Class Test and Evaluation (T&E) in support of recapitalization of the existing T-AO 187 Fleet Oiler Class. The Navy's Combat Logistics Force (CLF) oilers supply fuel and dry cargo to Navy ships at sea. The T-AO 205 Class will operate as shuttle ships from resupply ports to customer ships. Additionally, in conjunction with a T-AKE, they will accompany and stay on-station with a Carrier Strike Group (CSG) to provide fuel as required to customer ships. |             |         |         |              |  |               |             |               |         |                |                  |            |
| B. Program Change Summary (\$ in Millions)  |             |         |         | FY 2016      | FY 2017  | FY 2018 Base  | FY 2018 OCO | FY 2018 Total |         |                |                  |            |
| Previous President's Budget   |             |         |         | 0.000        | 1.095  | 1.842         | -           | 1.842         |         |                |                  |            |
| Current President's Budget  |             |         |         | 0.000        | 1.095  | 1.961         | -           | 1.961         |         |                |                  |            |
| Total Adjustments   |             |         |         | 0.000        | 0.000  | 0.119         | -           | 0.119         |         |                |                  |            |
| • Congressional General Reductions  |             |         |         | -            | -  |               |             |               |         |                |                  |            |
| • Congressional Directed Reductions   |             |         |         | -            | -  |               |             |               |         |                |                  |            |
| • Congressional Rescissions   |             |         |         | -            | -  |               |             |               |         |                |                  |            |
| • Congressional Adds  |             |         |         | -            | -  |               |             |               |         |                |                  |            |
| • Congressional Directed Transfers  |             |         |         | -            | -  |               |             |               |         |                |                  |            |
| • Reprogrammings  |             |         |         | -            | -  |               |             |               |         |                |                  |            |
| • SBIR/STTR Transfer  |             |         |         | -            | -  |               |             |               |         |                |                  |            |
| • Program Adjustments   |             |         |         | 0.000        | 0.000  | 0.100         | -           | 0.100         |         |                |                  |            |
| • Rate/Misc Adjustments   |             |         |         | 0.000        | 0.000  | 0.019         | -           | 0.019         |         |                |                  |            |
| Change Summary Explanation<br>Efforts previously funded under the Ship Preliminary Design and Feasibility Studies Line (0603564N).  |             |         |         |              |  |               |             |               |         |                |                  |            |

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| Exhibit R-2A, RDT&E Project Justification: FY 2018 Navy   |             |         |         |              |  |               |         |         |  | Date: May 2017 |                  |            |
| Appropriation/Budget Activity<br>1319 / 5   |             |         |         |              | R-1 Program Element (Number/Name)<br>PE 0605327N / (U)T-AO 205 Class |               |         |         | Project (Number/Name)<br>3375 / T-AO 205 Class Development |                |                  |            |
| 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 |
| 3375: T-AO 205 Class Development  | 0.000       | 0.000   | 1.095   | 1.961        | -  | 1.961         | 1.312   | 1.916   | 0.914  | 0.930          | Continuing       | Continuing |
| Quantity of RDT&E Articles  |             | -       | -       | -            | -  | -             | -       | -       | -  | -              |                  |            |
| Project MDAP/MAIS Code: P452  |             |         |         |              |  |               |         |         |  |                |                  |            |
| A. Mission Description and Budget Item Justification  |             |         |         |              |  |               |         |         |  |                |                  |            |
| T-AO 205 John Lewis Fleet Oiler Class Test and Evaluation (T&E) in support of recapitalization of the existing T-AO 187 Fleet Oiler Class. The Navy's Combat Logistics Force (CLF) oilers supply fuel and dry cargo to Navy ships at sea. The T-AO 205 Class will operate as shuttle ships from resupply ports to customer ships. Additionally, in conjunction with a T-AKE, they will accompany and stay on-station with a Carrier Strike Group (CSG) to provide fuel as required to customer ships.   |             |         |         |              |  |               |         |         |  |                |                  |            |
| B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)  |             |         |         |              |  |               |         |         |  |                |                  |            |
| <b>Title:</b> T-AO 205 Test and Evaluation<br><br><b>Articles:</b><br><br><b>FY 2016 Accomplishments:</b><br>N/A<br><br><b>FY 2017 Plans:</b><br>Support the execution of Test and Evaluation Developmental Test (DT) and Operational Test (OT) schedule per the Test and Evaluation Master Plan (TEMP). Plan and execute DT Phase DT-B and DT Assist. Begin preparation of the System Vulnerability Assessment. Support LFT&E efforts by conducting Mine Susceptibility Modeling and Simulation using the Total Mine Simulator System (TMSS). Begin Probability of Kill Given a Hit (Pk/h)-based vulnerability assessments. Coordinate efforts with NAVSEA, MSC, PEO Ships, COMOPTEVFOR, JITC and OSD DOT&E.<br><br><b>FY 2018 Base Plans:</b><br>Support the execution of Test and Evaluation DT and OT schedule per the TEMP. Continue execution of DT Phase DT-B. Develop Test Plans for OT Phase OT-C, Initial Operational Test and Evaluation (IOT&E). Conduct Detailed Design Survivability Assessment in support of shot selection for Damage Scenario Based Engineering Analysis (DSBEA) and Final Vulnerability Assessment Report (FSAR). Coordinate efforts with NAVSEA, MSC, PEO Ships, COMOPTEVFOR, JITC and OSD DOT&E.<br><br><b>FY 2018 OCO Plans:</b> |             |         |         |              |  |               | FY 2016 | FY 2017 | FY 2018 Base   | FY 2018 OCO    | FY 2018 Total    |            |
|   |             |         |         |              |  |               | 0.000   | 1.095   | 1.961  | 0.000          | 1.961            |            |
|   |             |         |         |              |  |               | -       | -       | -  | -              | -                |            |
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| <b>Exhibit R-2A, RDT&amp;E Project Justification:</b> FY 2018 Navy   |                |                |                         |   |                          |                |                | <b>Date:</b> May 2017   |                |                             |                        |                          |
| <b>Appropriation/Budget Activity</b><br>1319 / 5   |                |                |                         | <b>R-1 Program Element (Number/Name)</b><br>PE 0605327N / (U)T-AO 205 Class |                          |                |                | <b>Project (Number/Name)</b><br>3375 / T-AO 205 Class Development |                |                             |                        |                          |
| <b>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</b>  |                |                |                         |   |                          |                |                | <b>FY 2016</b>  | <b>FY 2017</b> | <b>FY 2018<br/>Base</b>     | <b>FY 2018<br/>OCO</b> | <b>FY 2018<br/>Total</b> |
| N/A  |                |                |                         |   |                          |                |                |   |                |                             |                        |                          |
| <b>Accomplishments/Planned Programs Subtotals</b>  |                |                |                         |   |                          |                |                | 0.000   | 1.095          | 1.961                       | 0.000                  | 1.961                    |
| <b>C. Other Program Funding Summary (\$ in Millions)</b>   |                |                |                         |   |                          |                |                |   |                |                             |                        |                          |
| <b>Line Item</b>   | <b>FY 2016</b> | <b>FY 2017</b> | <b>FY 2018<br/>Base</b> | <b>FY 2018<br/>OCO</b>  | <b>FY 2018<br/>Total</b> | <b>FY 2019</b> | <b>FY 2020</b> | <b>FY 2021</b>  | <b>FY 2022</b> | <b>Cost To<br/>Complete</b> | <b>Total Cost</b>      |                          |
| • SCN/5025: T-AO 205 Class   | 674.190        | 73.079         | 541.056                 | -   | 541.056                  | 520.613        | 534.530        | 528.119   | 537.814        | 7,185.000                   | 10,594.401             |                          |
| <b>Remarks</b>   |                |                |                         |   |                          |                |                |   |                |                             |                        |                          |
| <b>D. Acquisition Strategy</b>   |                |                |                         |   |                          |                |                |   |                |                             |                        |                          |
| The first Fleet Oiler was awarded in FY16. Fleet oilers will comply with the Oil Pollution Act of 1990 (OPA-90) and International Marine Pollution Regulation (MARPOL) requirements. |                |                |                         |   |                          |                |                |   |                |                             |                        |                          |
| <b>E. Performance Metrics</b>  |                |                |                         |   |                          |                |                |   |                |                             |                        |                          |
| None.  |                |                |                         |   |                          |                |                |   |                |                             |                        |                          |

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| Exhibit R-3, RDT&E Project Cost Analysis: FY 2018 Navy |                              |                                   |                |         |               |  |               |                 |               |  |               |                  | Date: May 2017      |               |                                |
| Appropriation/Budget Activity<br>1319 / 5              |                              |                                   |                |         |               | R-1 Program Element (Number/Name)<br>PE 0605327N / (U)T-AO 205 Class |               |                 |               | Project (Number/Name)<br>3375 / T-AO 205 Class Development |               |                  |                     |               |                                |
| Test and Evaluation (\$ in Millions)                   |                              |                                   |                | FY 2016 |               | FY 2017  |               | FY 2018<br>Base |               | FY 2018<br>OCO   |               | FY 2018<br>Total |                     |               |                                |
| Cost Category Item                                     | Contract<br>Method<br>& Type | Performing<br>Activity & Location | Prior<br>Years | Cost    | Award<br>Date | Cost   | Award<br>Date | Cost            | Award<br>Date | Cost   | Award<br>Date | Cost             | Cost To<br>Complete | Total<br>Cost | Target<br>Value of<br>Contract |
| Development Test & Evaluation                          | Various                      | Various : Various                 | 0.000          | 0.000   |               | 0.340  | May 2017      | 0.632           | Jan 2018      | -  |               | 0.632            | Continuing          | Continuing    | Continuing                     |
| Operational Test & Evaluation                          | Various                      | Various : Various                 | 0.000          | 0.000   |               | 0.500  | May 2017      | 0.613           | Jan 2018      | -  |               | 0.613            | Continuing          | Continuing    | Continuing                     |
| Live Fire Test & Evaluation                            | Various                      | Various : Various                 | 0.000          | 0.000   |               | 0.255  | May 2017      | 0.716           | Jan 2018      | -  |               | 0.716            | Continuing          | Continuing    | Continuing                     |
| Subtotal   |                              |                                   | 0.000          | 0.000   |               | 1.095  |               | 1.961           |               | -  |               | 1.961            | -                   | -             | -                              |
|  |                              |                                   | Prior<br>Years | FY 2016 |               | FY 2017  |               | FY 2018<br>Base |               | FY 2018<br>OCO   |               | FY 2018<br>Total | Cost To<br>Complete | Total<br>Cost | Target<br>Value of<br>Contract |
| Project Cost Totals                                    |                              |                                   | 0.000          | 0.000   |               | 1.095  |               | 1.961           |               | -  |               | 1.961            | -                   | -             | -                              |
| Remarks  |                              |                                   |                |         |               |  |               |                 |               |  |               |                  |                     |               |                                |

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

Date: May 2017

Appropriation/Budget Activity

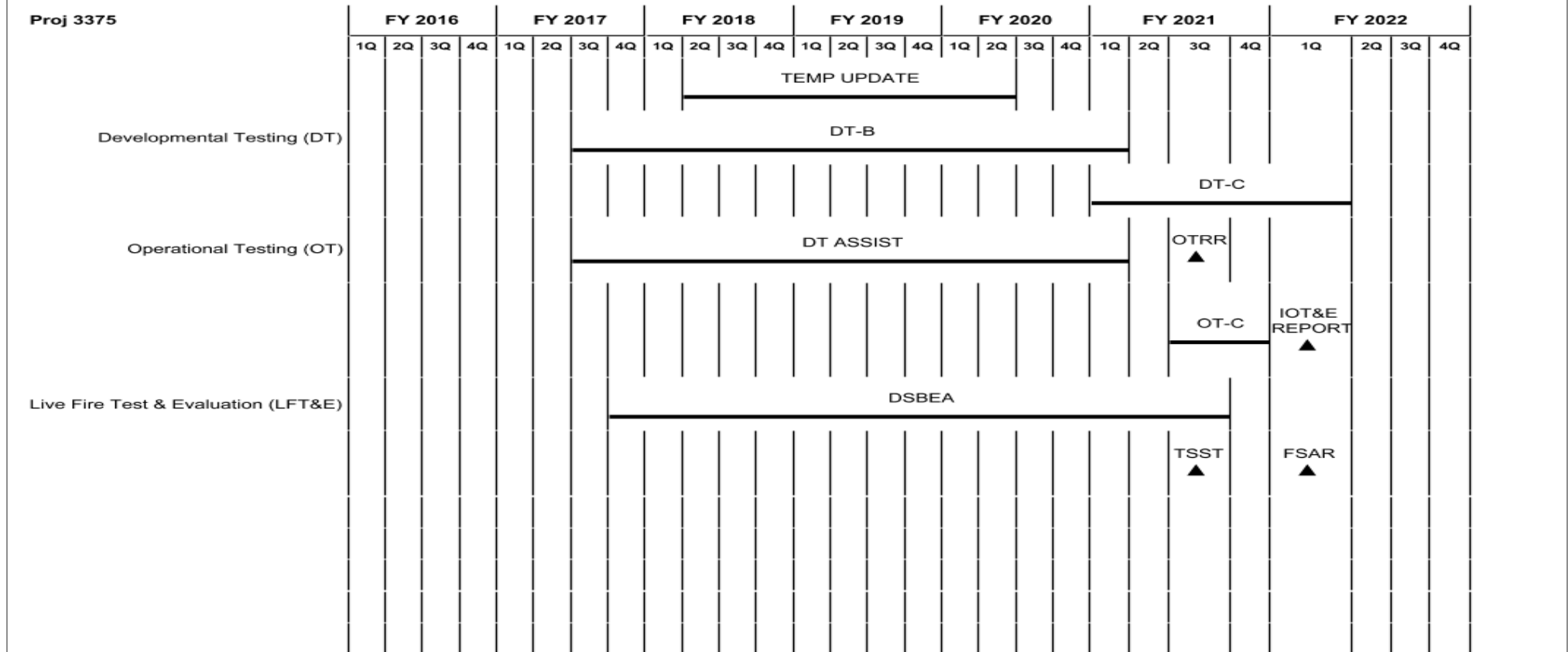
1319 / 5

R-1 Program Element (Number/Name)

PE 0605327N / (U)T-AO 205 Class

Project (Number/Name)

3375 / T-AO 205 Class Development



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| <b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> FY 2018 Navy |   |   | <b>Date:</b> May 2017 |
| <b>Appropriation/Budget Activity</b><br>1319 / 5              | <b>R-1 Program Element (Number/Name)</b><br>PE 0605327N / (U)T-AO 205 Class | <b>Project (Number/Name)</b><br>3375 / T-AO 205 Class Development |                       |

Schedule Details

| Events by Sub Project   | Start   |      | End     |      |
|---|---------|------|---------|------|
|   | Quarter | Year | Quarter | Year |
| <b>Proj 3375</b>  |         |      |         |      |
| Test & Evaluation Master Plan (TEMP) Update   | 2       | 2018 | 2       | 2020 |
| Developmental Testing (DT): DT Phase B (PAT&E)  | 3       | 2017 | 1       | 2021 |
| Developmental Testing (DT): DT Phase C (PDT&T)  | 1       | 2021 | 1       | 2022 |
| Operational Testing (OT): DT Assist   | 3       | 2017 | 1       | 2021 |
| Operational Testing (OT): Operational Test Readiness Review (OTRR)                    | 3       | 2021 | 3       | 2021 |
| Operational Testing (OT): OT Phase C (IOT&E)  | 3       | 2021 | 4       | 2021 |
| Operational Testing (OT): Initial Operational Test and Evaluation (IOT&E) Report      | 1       | 2022 | 1       | 2022 |
| Live Fire Test & Evaluation (LFT&E): Detailed Design Survivability Assessment (DSBEA) | 4       | 2017 | 3       | 2021 |
| Live Fire Test & Evaluation (LFT&E): Total Ship Survivability Trial (TSST)            | 3       | 2021 | 3       | 2021 |
| Live Fire Test & Evaluation (LFT&E): Final Survivability Assessment Report (FSAR)     | 1       | 2022 | 1       | 2022 |