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Exhibit R-2, RDT&E Budget Item Justification: PB 2017 Navy **Date:** February 2016

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| Appropriation/Budget Activity 1319: <i>Research, Development, Test & Evaluation, Navy / BA 5: System Development & Demonstration (SDD)</i> | R-1 Program Element (Number/Name) PE 0604574N / <i>Navy Tactical Computer Resources</i> |
|--|---|

| COST (\$ in Millions) | Prior Years | FY 2015 | FY 2016 | FY 2017 Base | FY 2017 OCO | FY 2017 Total | FY 2018 | FY 2019 | FY 2020 | FY 2021 | Cost To Complete | Total Cost |
|---|-------------|---------|---------|--------------|-------------|---------------|---------|---------|---------|---------|------------------|------------|
| Total Program Element | 0.000 | 3.884 | 4.096 | 3.098 | - | 3.098 | 4.839 | 4.730 | 4.097 | 4.062 | Continuing | Continuing |
| 3360: <i>Common Processing System (CPS)</i> | 0.000 | 1.297 | 1.368 | 0.892 | - | 0.892 | 1.698 | 1.633 | 1.477 | 1.508 | Continuing | Continuing |
| 3361: <i>Common Display System (CDS)</i> | 0.000 | 2.587 | 2.728 | 2.206 | - | 2.206 | 3.141 | 3.097 | 2.620 | 2.554 | Continuing | Continuing |

A. Mission Description and Budget Item Justification

The Common Processing System (CPS) and Common Display System (CDS) programs support developing open architecture hardware and technology in a competitively sourced environment. CPS & CDS provide technical replacements for obsolete display and processing equipment (such as AN/UYQ-70) for multiple warfare systems aboard CVN, LHA, LPD, LHD, CG-47, DDG-1000, and DDG-51 class ships. CPS provides the computer processing and memory, data storage and extraction, and Input/Output (I/O) interface to support hosting Navy combat system software applications and computing resources in AEGIS Modernization, AEGIS new construction, Surface Electronic Warfare Improvement Program (SEWIP), CVN-TSC, and other Navy programs. CDS provides operator display consoles with a common human machine interface for AEGIS modernization, AEGIS new construction, DDG-1000, CVN, Gun Weapon System (GWS), Ship Self Defense System (SSDS) MK 2, SEWIP, and Unmanned Carrier Launched Airborne Surveillance and Strike (UCLASS). Funding provides for technical management and Engineering Change Proposals (ECP) development for the common baseline. Procurement and development funds provided by user programs to support program unique requirements.

B. Program Change Summary (\$ in Millions)

| | <u>FY 2015</u> | <u>FY 2016</u> | <u>FY 2017 Base</u> | <u>FY 2017 OCO</u> | <u>FY 2017 Total</u> |
|-------------------------------------|----------------|----------------|---------------------|--------------------|----------------------|
| Previous President's Budget | 3.935 | 4.096 | 4.205 | - | 4.205 |
| Current President's Budget | 3.884 | 4.096 | 3.098 | - | 3.098 |
| Total Adjustments | -0.051 | 0.000 | -1.107 | - | -1.107 |
| • Congressional General Reductions | - | - | | | |
| • Congressional Directed Reductions | - | - | | | |
| • Congressional Rescissions | - | - | | | |
| • Congressional Adds | - | - | | | |
| • Congressional Directed Transfers | - | - | | | |
| • Reprogrammings | - | - | | | |
| • SBIR/STTR Transfer | -0.051 | 0.000 | | | |
| • Rate/Misc Adjustments | 0.000 | 0.000 | -1.107 | - | -1.107 |

Change Summary Explanation

Decrease in Navy Tactical Computer Resources by \$0.13M as required for the Department of the Navy to comply with the Bipartisan Budget Act of 2015.

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| Exhibit R-2A, RDT&E Project Justification: PB 2017 Navy | | | | | | | | | | Date: February 2016 | | |
| Appropriation/Budget Activity 1319 / 5 | | | | | R-1 Program Element (Number/Name) PE 0604574N / Navy Tactical Computer Resources | | | | Project (Number/Name) 3360 / Common Processing System (CPS) | | | |
| COST (\$ in Millions) | Prior Years | FY 2015 | FY 2016 | FY 2017 Base | FY 2017 OCO | FY 2017 Total | FY 2018 | FY 2019 | FY 2020 | FY 2021 | Cost To Complete | Total Cost |
| 3360: Common Processing System (CPS) | 0.000 | 1.297 | 1.368 | 0.892 | - | 0.892 | 1.698 | 1.633 | 1.477 | 1.508 | Continuing | Continuing |
| Quantity of RDT&E Articles | | - | - | - | - | - | - | - | - | - | | |

A. Mission Description and Budget Item Justification

The Common Processing System (CPS) program supports developing open architecture computer processing hardware and storage technology in a competitively sourced environment. CPS provides technical replacements for obsolete processing equipment (such as AN/UYQ-70) for multiple warfare systems aboard CVN, LHA, LHD, LSD, CG-47, and DDG-51 class ships. CPS serves as the computer processing and memory, data storage and extraction, and Input/Output (I/O) interface to support hosting Navy combat system software applications and computing resources in AEGIS Modernization, AEGIS new construction, SSDS, SEWIP, CVN, UCLASS and other Navy programs. Funding provides for technical management and ECP development for the common product baseline. Procurement and development funds are provided by user programs to support program unique requirements.

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)

| | FY 2015 | FY 2016 | FY 2017 Base | FY 2017 OCO | FY 2017 Total |
|---|----------------|----------------|---------------------|--------------------|----------------------|
| Title: Common Processing System (CPS) | 1.297 | 1.368 | 0.892 | 0.000 | 0.892 |
| Articles: | - | - | - | - | - |
| FY 2015 Accomplishments: Supported system engineering support of CPS TI-12 on installed platforms including AEGIS Destroyers and Cruisers undergoing modernization, DDG new construction, AEGIS Ashore, CVN, and CVN/Amphib, SEWIP, UCLASS and SSDS Mk 2 ships. Supported build to print requirements development in support of contract award efforts for TI-16 CPS equipment. | | | | | |
| FY 2016 Plans: Continue system engineering support of CPS TI-12 / TI-16 on installed platforms including AEGIS Destroyers and Cruisers undergoing modernization, DDG new construction, AEGIS Ashore, CVN, and CVN/Amphib, SEWIP, UCLASS and SSDS Mk 2 ships. Support System Engineering efforts required to achieve Production Readiness Review | | | | | |

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| Exhibit R-2A, RDT&E Project Justification: PB 2017 Navy | | Date: February 2016 |
| Appropriation/Budget Activity 1319 / 5 | R-1 Program Element (Number/Name) PE 0604574N / Navy Tactical Computer Resources | Project (Number/Name) 3360 / Common Processing System (CPS) |

| B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each) | FY 2015 | FY 2016 | FY 2017 Base | FY 2017 OCO | FY 2017 Total |
|--|----------------|----------------|---------------------|--------------------|----------------------|
| (PRR) milestone required to support AEGIS Modernization, AEGIS New Construction, CVN, CVN/Amphib, SEWIP, UCLASS and SSDS Mk 2 Ships. FY 2017 Base Plans: Continue system engineering support of CPS TI-12 / TI-16 on installed platforms including AEGIS Destroyers and Cruisers undergoing modernization, DDG new construction, AEGIS Ashore, CVN, and CVN/Amphib, SEWIP, UCLASS and SSDS Mk 2 ships. Support System Engineering efforts required to achieve In-Progress Review for TI-Next milestone required to support AEGIS Modernization, AEGIS New Construction, CVN, CVN/Amphib, SEWIP, UCLASS and SSDS Mk 2 Ships. FY 2017 OCO Plans: N/A | | | | | |
| Accomplishments/Planned Programs Subtotals | 1.297 | 1.368 | 0.892 | 0.000 | 0.892 |

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

N/A

Remarks

D. Acquisition Strategy

CPS TI-16: Award build to Print IDIQ production contract for FY16-FY21.

E. Performance Metrics

Major Milestones:

- CPS TI-12 Build-To-Print Contract Award
- CPS TI-12 Production Readiness Review
- CPS TI-16 Production Contract Award
- CPS TI-16 Preliminary Design Review
- CPS TI-16 Critical Design Review
- CPS TI-16 Test Readiness Review
- CPS TI-16 Production Readiness Review
- CPS TI-20 In Process Review No. 1
- CPS TI-20 In Process Review No. 2
- CDP TI-20 Preliminary Design Review

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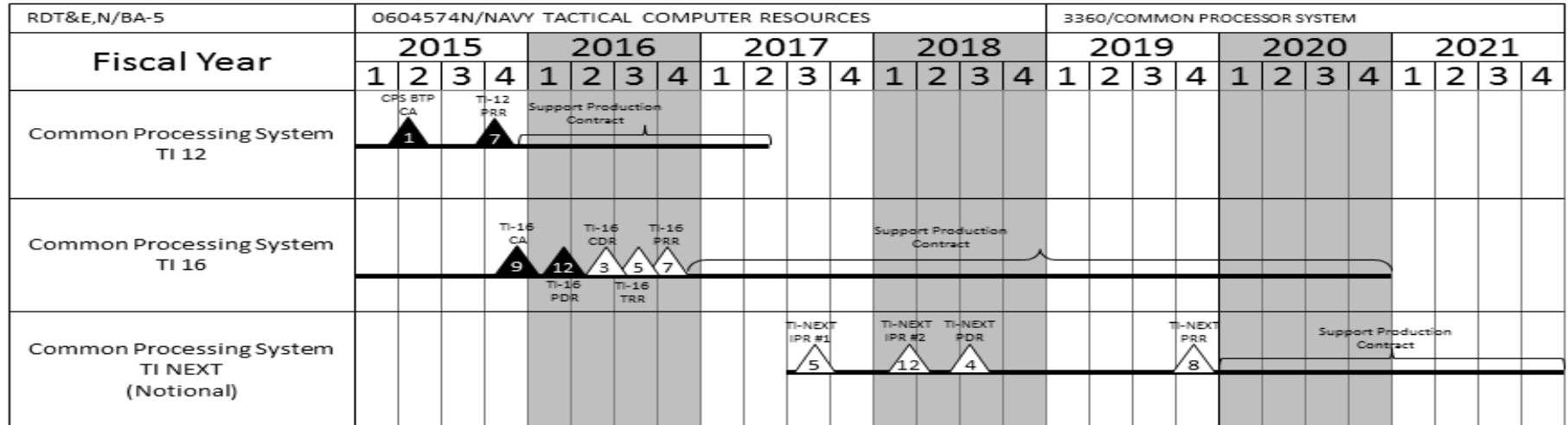
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| Exhibit R-2A, RDT&E Project Justification: PB 2017 Navy | | Date: February 2016 |
| Appropriation/Budget Activity 1319 / 5 | R-1 Program Element (Number/Name) PE 0604574N / <i>Navy Tactical Computer Resources</i> | Project (Number/Name) 3360 / <i>Common Processing System (CPS)</i> |
| CPS TI-20 Production Readiness Review | | |

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| Exhibit R-3, RDT&E Project Cost Analysis: PB 2017 Navy | | | | | | | | | | | | Date: February 2016 | | | | |
|--|------------------------|--------------------------------|-------------|--|------------|---------|------------|---------------------------------------|------------|-------------|------------|---------------------|------------------|------------|--------------------------|--|
| Appropriation/Budget Activity | | | | R-1 Program Element (Number/Name) | | | | Project (Number/Name) | | | | | | | | |
| 1319 / 5 | | | | PE 0604574N / Navy Tactical Computer Resources | | | | 3360 / Common Processing System (CPS) | | | | | | | | |
| Product Development (\$ in Millions) | | | | FY 2015 | | FY 2016 | | FY 2017 Base | | FY 2017 OCO | | FY 2017 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 | |
| Systems Engineering | WR | NSWC : PHD | 0.000 | 0.010 | Oct 2014 | 0.000 | Oct 2015 | 0.000 | | - | | 0.000 | Continuing | Continuing | Continuing | |
| Systems Engineering | WR | NSWC : Dahlgren | 0.000 | 0.619 | Oct 2014 | 0.765 | Nov 2015 | 0.775 | Nov 2016 | - | | 0.775 | Continuing | Continuing | Continuing | |
| Systems Engineering | C/CPIF | TBD : TBD | 0.000 | 0.626 | Oct 2014 | 0.561 | Jan 2016 | 0.063 | Nov 2016 | - | | 0.063 | 0.000 | 1.250 | - | |
| Subtotal | | | 0.000 | 1.255 | | 1.326 | | 0.838 | | - | | 0.838 | - | - | - | |
| Management Services (\$ in Millions) | | | | FY 2015 | | FY 2016 | | FY 2017 Base | | FY 2017 OCO | | FY 2017 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 Management Services | Various | Various : Various | 0.000 | 0.042 | Oct 2014 | 0.042 | Oct 2015 | 0.054 | Oct 2016 | - | | 0.054 | Continuing | Continuing | Continuing | |
| Subtotal | | | 0.000 | 0.042 | | 0.042 | | 0.054 | | - | | 0.054 | - | - | - | |
| Project Cost Totals | | | 0.000 | 1.297 | | 1.368 | | 0.892 | | - | | 0.892 | - | - | - | |
| Remarks | | | | | | | | | | | | | | | | |

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| Exhibit R-4, RDT&E Schedule Profile: PB 2017 Navy | | Date: February 2016 |
| Appropriation/Budget Activity 1319 / 5 | R-1 Program Element (Number/Name) PE 0604574N / Navy Tactical Computer Resources | Project (Number/Name) 3360 / Common Processing System (CPS) |



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| Exhibit R-4A, RDT&E Schedule Details: PB 2017 Navy | | Date: February 2016 |
| Appropriation/Budget Activity 1319 / 5 | R-1 Program Element (Number/Name) PE 0604574N / Navy Tactical Computer Resources | Project (Number/Name) 3360 / Common Processing System (CPS) |

Schedule Details

| Events by Sub Project | Start | | End | |
|--|---------|------|---------|------|
| | Quarter | Year | Quarter | Year |
| Proj 3360 | | | | |
| CPS TI 12 Built-To-Print Contract Award | 2 | 2015 | 2 | 2015 |
| CPS TI 12 Production Readiness Review | 4 | 2015 | 4 | 2015 |
| CPS TI 16 Production Contract Award | 4 | 2015 | 4 | 2015 |
| CPS TI 16 Preliminary Design Review | 1 | 2016 | 1 | 2016 |
| CPS TI 16 Critical Design Review | 2 | 2016 | 2 | 2016 |
| CPS TI 16 Test Readiness Review | 3 | 2016 | 3 | 2016 |
| CPS TI 16 Production Readiness Review | 4 | 2016 | 4 | 2016 |
| CPS TI 20 In Progress Review (IPR) No. 1 | 3 | 2017 | 3 | 2017 |
| CPS TI 20 In Progress Review (IPR) No. 2 | 1 | 2018 | 1 | 2018 |
| CPS TI Next PDR | 3 | 2018 | 3 | 2018 |
| CPS TI Next PRR | 4 | 2019 | 1 | 2021 |

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| Exhibit R-2A, RDT&E Project Justification: PB 2017 Navy | | | | | | | | | | Date: February 2016 | | |
| Appropriation/Budget Activity 1319 / 5 | | | | | R-1 Program Element (Number/Name) PE 0604574N / Navy Tactical Computer Resources | | | | Project (Number/Name) 3361 / Common Display System (CDS) | | | |
| COST (\$ in Millions) | Prior Years | FY 2015 | FY 2016 | FY 2017 Base | FY 2017 OCO | FY 2017 Total | FY 2018 | FY 2019 | FY 2020 | FY 2021 | Cost To Complete | Total Cost |
| 3361: Common Display System (CDS) | 0.000 | 2.587 | 2.728 | 2.206 | - | 2.206 | 3.141 | 3.097 | 2.620 | 2.554 | Continuing | Continuing |
| Quantity of RDT&E Articles | | - | - | - | - | - | - | - | - | - | | |

A. Mission Description and Budget Item Justification

The Common Display System (CDS) program supports developing open architecture hardware and technology in a competitively sourced environment. CDS provides technical replacements for obsolete display equipment (such as AN/UYQ-70) for multiple warfare systems aboard CVN, LHA, LHD, LSD, CG-47, DDG-1000, and DDG-51 class ships. CDS provides operator display consoles with a common human machine interface for AEGIS Modernization, AEGIS new construction, SSDS, DDG-1000, CVN, GWS, SSDS MK 2, SEWIP, and UCLASS. Funding provides for technical management and ECP development for the common baseline. Procurement and development funds provided by user programs for program unique requirements.

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)

| | FY 2015 | FY 2016 | FY 2017 Base | FY 2017 OCO | FY 2017 Total |
|--|----------------|----------------|---------------------|--------------------|----------------------|
| Title: Common Display System (CDS) | 2.587 | 2.728 | 2.206 | 0.000 | 2.206 |
| Articles: | - | - | - | - | - |
| FY 2015 Accomplishments: Supported system engineering support of CDS TI-12 on multiple platforms including AEGIS Destroyers and Cruisers undergoing modernization, DDG new construction, AEGIS Ashore, CVN, DDG 1000, CVN/Amphib SSDS and other ships. Awarded CDS TI-16 Common Display System contract. Supported Engineering efforts required to complete Preliminary Design Review (PDR) and Critical Design Review (CDR) as planned to support AEGIS Modernization, DDG new construction, AEGIS Ashore, CVN, DDG 1000, CVN/Amphib SSDS and other ships. | | | | | |
| FY 2016 Plans: Continue system engineering support of CDS TI-12 / TI-16 on multiple platforms including AEGIS Destroyers and Cruisers undergoing modernization, DDG new construction, AEGIS Ashore, CVN, DDG 1000, CVN/Amphib SSDS and other ships. Support Engineering efforts required to complete Test Readiness Review (TRR) and Production Readiness Review (PRR) | | | | | |

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| Exhibit R-2A, RDT&E Project Justification: PB 2017 Navy | | Date: February 2016 |
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| B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each) | FY 2015 | FY 2016 | FY 2017 Base | FY 2017 OCO | FY 2017 Total |
|---|----------------|----------------|---------------------|--------------------|----------------------|
| as planned to support AEGIS Modernization, DDG new construction, AEGIS Ashore, CVN, DDG 1000, CVN/ Amphib SSDS and other ships. FY 2017 Base Plans: Continue system engineering support of CDS TI-12 / TI-16 on multiple platforms including AEGIS Destroyers and Cruisers undergoing modernization, DDG new construction, AEGIS Ashore, CVN, DDG 1000, CVN/Amphib SSDS and other ships. Support System Engineering efforts required to achieve In-Progress Review and System Requirements Review (SRR) milestone required to support for TI-Next AEGIS Modernization, AEGIS New Construction, CVN, CVN/Amphib, SEWIP, UCLASS and SSDS Mk 2 Ships. FY 2017 OCO Plans: N/A | | | | | |
| Accomplishments/Planned Programs Subtotals | 2.587 | 2.728 | 2.206 | 0.000 | 2.206 |

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

N/A

Remarks

D. Acquisition Strategy

Contracts:
CDS Indefinite Delivery Indefinite Quantity (IDIQ) Production continues FY15-FY16.

E. Performance Metrics

- CDS TI-12 Contract Award
- CDS TI-12 Production Readiness Review
- CDS TI-16 Contract Award
- CDS TI-16 Preliminary Design Review
- CDS TI-16 Critical Design Review
- CDS TI-16 Test Readiness Review
- CDS TI-16 Production Readiness Review
- CDS TI 20 In Process Review No. 1
- CDS TI 20 System Requirements Review

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| Exhibit R-2A, RDT&E Project Justification: PB 2017 Navy | | Date: February 2016 |
| Appropriation/Budget Activity 1319 / 5 | R-1 Program Element (Number/Name) PE 0604574N / <i>Navy Tactical Computer Resources</i> | Project (Number/Name) 3361 / <i>Common Display System (CDS)</i> |
| CDS TI 20 In Process Review No. 2 CDS TI 20 Preliminary Design Review CDS TI 20 Critical Design Review CDS TI 20 In Process Review No. 3 CDS TI 20 Test Readiness Review CDS TI 20 Production Readiness Review | | |

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2017 Navy **Date:** February 2016

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| Appropriation/Budget Activity 1319 / 5 | R-1 Program Element (Number/Name) PE 0604574N / Navy Tactical Computer Resources | Project (Number/Name) 3361 / Common Display System (CDS) |
|--|--|--|

| Product Development (\$ in Millions) | | | | FY 2015 | | FY 2016 | | FY 2017 Base | | FY 2017 OCO | | FY 2017 Total | Cost To Complete | Total Cost | Target Value of Contract |
|---|-----------------------------------|---|--------------------|----------------|-------------------|----------------|-------------------|---------------------|-------------------|--------------------|-------------------|----------------------|-------------------------|-------------------|---------------------------------|
| Cost Category Item | Contract Method & Type | Performing Activity & Location | Prior Years | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | | | |
| Systems Engineering | WR | NSWC : PHD | 0.000 | 0.114 | Oct 2014 | 0.098 | Dec 2015 | 0.106 | Dec 2016 | - | | 0.106 | Continuing | Continuing | Continuing |
| Systems Engineering | WR | NSWC : Dahlgren | 0.000 | 1.698 | Oct 2014 | 1.519 | Oct 2015 | 1.600 | Oct 2016 | - | | 1.600 | Continuing | Continuing | Continuing |
| Systems Engineering | C/CPFF | General Dynamics : Fairfax, VA | 0.000 | 0.311 | Oct 2014 | 0.150 | Oct 2015 | 0.154 | Oct 2016 | - | | 0.154 | 0.000 | 0.615 | - |
| Systems Engineering | C/CPIF | DRS Technologies : Gaithersburg, MD | 0.000 | 0.373 | Oct 2014 | 0.150 | Oct 2015 | 0.152 | Oct 2016 | - | | 0.152 | 0.000 | 0.675 | - |
| Systems Engineering | C/CPIF | TBD : TBD | 0.000 | 0.000 | | 0.719 | Dec 2015 | 0.100 | Dec 2016 | - | | 0.100 | 0.000 | 0.819 | - |
| Subtotal | | | 0.000 | 2.496 | | 2.636 | | 2.112 | | - | | 2.112 | - | - | - |

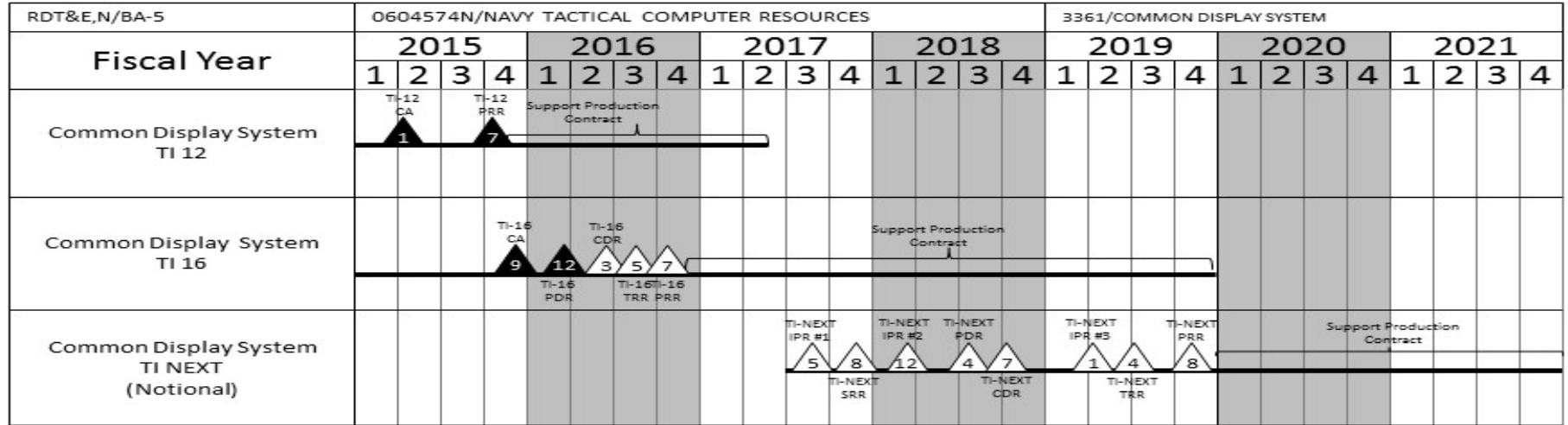
| Management Services (\$ in Millions) | | | | FY 2015 | | FY 2016 | | FY 2017 Base | | FY 2017 OCO | | FY 2017 Total | Cost To Complete | Total Cost | Target Value of Contract |
|---|-----------------------------------|---|--------------------|----------------|-------------------|----------------|-------------------|---------------------|-------------------|--------------------|-------------------|----------------------|-------------------------|-------------------|---------------------------------|
| Cost Category Item | Contract Method & Type | Performing Activity & Location | Prior Years | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | | | |
| Program Management Services | Various | Various : Various | 0.000 | 0.091 | Oct 2014 | 0.092 | Oct 2015 | 0.094 | Dec 2016 | - | | 0.094 | Continuing | Continuing | Continuing |
| Subtotal | | | 0.000 | 0.091 | | 0.092 | | 0.094 | | - | | 0.094 | - | - | - |

| Project Cost Totals | Prior Years | FY 2015 | FY 2016 | FY 2017 Base | FY 2017 OCO | FY 2017 Total | Cost To Complete | Total Cost | Target Value of Contract |
|----------------------------|--------------------|----------------|----------------|---------------------|--------------------|----------------------|-------------------------|-------------------|---------------------------------|
| | 0.000 | 2.587 | 2.728 | 2.206 | - | 2.206 | - | - | - |

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| Exhibit R-4, RDT&E Schedule Profile: PB 2017 Navy | | Date: February 2016 |
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| Exhibit R-4A, RDT&E Schedule Details: PB 2017 Navy | | Date: February 2016 |
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Schedule Details

| Events by Sub Project | Start | | End | |
|---|---------|------|---------|------|
| | Quarter | Year | Quarter | Year |
| Proj 3361 | | | | |
| CDS TI 12 Contract Award | 2 | 2015 | 2 | 2015 |
| CDS TI12 Production Readiness Review | 4 | 2015 | 4 | 2015 |
| CDS TI16 Production Contract Award | 4 | 2015 | 4 | 2015 |
| CDS TI16 Preliminary Design Review | 1 | 2016 | 1 | 2016 |
| CDS TI16 Critical Design Review | 2 | 2016 | 2 | 2016 |
| CDS TI16 Test Readiness Review | 3 | 2016 | 3 | 2016 |
| CDS TI16 Production Readiness Review | 4 | 2016 | 4 | 2016 |
| CDS TI Next IPR No. 1 | 3 | 2017 | 3 | 2017 |
| CDS TI Next System Requirements Review | 4 | 2017 | 4 | 2017 |
| CDS TI Next IPR No. 2 | 1 | 2018 | 1 | 2018 |
| CDS TI Next Preliminary Design Review | 3 | 2018 | 3 | 2018 |
| CDS TI Next Critical Design Review | 4 | 2018 | 4 | 2018 |
| CDS TI Next IPR No. 3 | 2 | 2019 | 2 | 2019 |
| CDS TI Next Test Readiness Review | 3 | 2019 | 3 | 2019 |
| CDS TI Next Production Readiness Review | 4 | 2019 | 4 | 2019 |

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