| Contract ID: | 0001 | Reference IDV: | FA865110D0325 |
|--|---|--|---|
| Modification Number: | 2 | Transaction Number: | 4 |
| Award/IDV Type: | DO Delivery Order | Action Obligation (\$): | \$101,153.00 |
| Date Signed: | Mar 5, 2013 | Solicitation Date: | _ |
| Contracting Agency ID: | 5700 | Contracting Agency: | DEPT OF THE AIR FORCE |
| Contracting Office Name: | FA8651 AFRL RWK | PSC Type: | s |
| PSC: | AC53 | PSC Description: | R&D- DEFENSE SYSTEM: WEAPONS (ADVANCED DEVELOPMENT) |
| NAICS: | 541712 | NAICS Description: | RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY) |
| Entity City: | EL SEGUNDO | Entity State: | CA |
| Entity ZIP Code: | 902452804 | Additional Reporting Code: | - |
| Additional Reporting Description: | - | Unique Entity ID: | T9XKQSKMW4J1 |
| Ultimate Parent Unique Entity ID: | NKVZLJL93QT6 | Ultimate Parent Legal Business Name: | NORTHROP GRUMMAN SYSTEMS CORPORATION |
| Legal Business Name: | NORTHROP GRUMMAN SYSTEMS CORPORATION | CAGE Code: | - |
| Contract ID: | 0001 | Reference IDV: | FA865110D0325 |
| Modification Number: | 4 | Transaction Number: | 4 |
| Award/IDV Type: | DO Delivery Order | Action Obligation (\$): | \$126,035.00 |
| Date Signed: | Jul 8, 2014 | Solicitation Date: | _ |
| Contracting Agency ID: | 5700 | Contracting Agency: | DEPT OF THE AIR FORCE |
| Contracting Office Name: | FA8651 AFRL RWK | PSC Type: | S |
| PSC: | AC53 | PSC Description: | R&D- DEFENSE SYSTEM: WEAPONS (ADVANCED |
| | | | DEVELOPMENT) |
| NAICS: | 541712 | NAICS Description: | · |
| NAICS: Entity City: | 541712 EL SEGUNDO | NAICS Description: Entity State: | DEVELOPMENT) RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT |
| | | | DEVELOPMENT) RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY) |
| Entity City: | EL SEGUNDO | Entity State: | DEVELOPMENT) RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY) |
| Entity City: Entity ZIP Code: Additional Reporting | EL SEGUNDO 902452804 | Entity State: Additional Reporting Code: | DEVELOPMENT) RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY) CA |

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| Contract ID: | 0001 | Reference IDV: | FA865110D0325 |
|--|--------------------------------------|--|--|
| Modification Number: | 7 | Transaction Number: | 4 |
| Award/IDV Type: | DO Delivery Order | Action Obligation (\$): | \$200,000.00 |
| Date Signed: | Nov 20, 2015 | Solicitation Date: | - |
| Contracting Agency ID: | 5700 | Contracting Agency: | DEPT OF THE AIR FORCE |
| Contracting Office Name: | FA8651 AFRL RWK | PSC Type: | S |
| PSC: | AC53 | PSC Description: | R&D- DEFENSE SYSTEM: WEAPONS (ADVANCED DEVELOPMENT) |
| NAICS: | 541712 | NAICS Description: | RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY) |
| Entity City: | EL SEGUNDO | Entity State: | CA |
| Entity ZIP Code: | 902452804 | Additional Reporting Code: | - |
| Additional Reporting Description: | - | Unique Entity ID: | T9XKQSKMW4J1 |
| Ultimate Parent Unique Entity ID: | NKVZLJL93QT6 | Ultimate Parent Legal Business Name: | NORTHROP GRUMMAN SYSTEMS CORPORATION |
| Legal Business Name: | NORTHROP GRUMMAN SYSTEMS CORPORATION | CAGE Code: | - |
| Contract ID: | 0001 | Reference IDV: | FA865110D0325 |
| Modification Number: | 8 | Transaction Number: | 4 |
| Award/IDV Type: | DO Delivery Order | Action Obligation (\$): | \$100,000.00 |
| Date Signed: | Mar 8, 2016 | Solicitation Date: | - |
| Contracting Agency ID: | 5700 | Contracting Agency: | DEPT OF THE AIR FORCE |
| Contracting Office Name: | FA8651 AFRL RWK | DGG | s |
| Jane . | THOUSE AFREE RWIC | PSC Type: | _ |
| PSC: | AC53 | PSC Type: PSC Description: | R&D- DEFENSE SYSTEM: WEAPONS (ADVANCED DEVELOPMENT) |
| | | | R&D- DEFENSE SYSTEM: WEAPONS (ADVANCED |
| PSC: | AC53 | PSC Description: | R&D- DEFENSE SYSTEM: WEAPONS (ADVANCED DEVELOPMENT) RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT |
| PSC: NAICS: Entity City: | AC53 541712 | PSC Description: | R&D- DEFENSE SYSTEM: WEAPONS (ADVANCED DEVELOPMENT) RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY) CA |
| PSC: NAICS: Entity City: Entity ZIP Code: Additional Reporting | AC53 541712 EL SEGUNDO | PSC Description: NAICS Description: Entity State: | R&D- DEFENSE SYSTEM: WEAPONS (ADVANCED DEVELOPMENT) RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY) CA |
| PSC: | AC53 541712 EL SEGUNDO | PSC Description: NAICS Description: Entity State: Additional Reporting Code: | R&D- DEFENSE SYSTEM: WEAPONS (ADVANCED DEVELOPMENT) RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY) CA |

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| Contract ID: | 0001 | Reference IDV: | FA865110D0325 |
|--|--------------------------------------|--|---|
| Modification Number: | 9 | Transaction Number: | 4 |
| Award/IDV Type: | DO Delivery Order | Action Obligation (\$): | \$0.00 |
| Date Signed: | Mar 22, 2016 | Solicitation Date: | - |
| Contracting Agency ID: | 5700 | Contracting Agency: | DEPT OF THE AIR FORCE |
| Contracting Office Name: | FA8651 AFRL RWK | PSC Type: | S |
| PSC: | AC53 | PSC Description: | R&D- DEFENSE SYSTEM: WEAPONS (ADVANCED DEVELOPMENT) |
| NAICS: | 541712 | NAICS Description: | RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY) |
| Entity City: | EL SEGUNDO | Entity State: | CA |
| Entity ZIP Code: | 902452804 | Additional Reporting Code: | _ |
| Additional Reporting Description: | - | Unique Entity ID: | T9XKQSKMW4J1 |
| Ultimate Parent Unique Entity ID: | NKVZLJL93QT6 | Ultimate Parent Legal Business Name: | NORTHROP GRUMMAN SYSTEMS CORPORATION |
| Legal Business Name: | NORTHROP GRUMMAN SYSTEMS CORPORATION | CAGE Code: | - |
| Contract ID: | 0001 | Reference IDV: | FA865110D0325 |
| Modification Number: | 11 | Transaction Number: | 4 |
| Award/IDV Type: | DO Delivery Order | Action Obligation (\$): | \$100,000.00 |
| Date Signed: | Jun 1, 2017 | Solicitation Date: | _ |
| Contracting Agency ID: | 5700 | Contracting Agency: | DEPT OF THE AIR FORCE |
| Contracting Office Name: | FA8651 AFRL RWK | PSC Type: | S |
| PSC: | AC53 | PSC Description: | R&D- DEFENSE SYSTEM: WEAPONS (ADVANCED DEVELOPMENT) |
| NAICS: | 541712 | NAICS Description: | RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY) |
| Entity City: | EL SEGUNDO | Entity State: | CA |
| | | | |
| Entity ZIP Code: | 902452804 | Additional Reporting Code: | |
| Entity ZIP Code: Additional Reporting Description: | 902452804 | Additional Reporting Code: Unique Entity ID: | T9XKQSKMW4J1 |
| Additional Reporting | | | T9XKQSKMW4J1 NORTHROP GRUMMAN SYSTEMS CORPORATION |

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| Contract ID: | 0001 | Reference IDV: | FA865110D0325 |
|---|---|--|---|
| | | | |
| Modification Number: | 12 | Transaction Number: | 4 |
| Award/IDV Type: | DO Delivery Order | Action Obligation (\$): | \$84,206.00 |
| Date Signed: | Oct 10, 2017 | Solicitation Date: | - |
| Contracting Agency ID: | 5700 | Contracting Agency: | DEPT OF THE AIR FORCE |
| Contracting Office Name: | FA8651 AFRL RWK | PSC Type: | S |
| PSC: | AC53 | PSC Description: | R&D- DEFENSE SYSTEM: WEAPONS (ADVANCED DEVELOPMENT) |
| NAICS: | 541712 | NAICS Description: | RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY) |
| Entity City: | EL SEGUNDO | Entity State: | CA |
| Entity ZIP Code: | 902452804 | Additional Reporting Code: | - |
| Additional Reporting Description: | - | Unique Entity ID: | T9XKQSKMW4J1 |
| Ultimate Parent Unique Entity ID: | NKVZLJL93QT6 | Ultimate Parent Legal Business Name: | NORTHROP GRUMMAN SYSTEMS CORPORATION |
| Legal Business Name: | NORTHROP GRUMMAN SYSTEMS CORPORATION | CAGE Code: | 76823 |
| Contract ID: | 0001 | Reference IDV: | FA865110D0325 |
| Modification Number: | 1 | Transaction Number: | 4 |
| Award/IDV Type: | DO Delivery Order | Action Obligation (\$): | \$0.00 |
| Date Signed: | Oct 17, 2012 | Solicitation Date: | - |
| Contracting Agency ID: | 5700 | Contracting Agency: | DEPT OF THE AIR FORCE |
| Contracting Office Name: | FA8651 AFRL RWK | PSC Type: | S |
| PSC: | | | DAD DEFENSE GUARRIA |
| roc: | AC53 | PSC Description: | R&D- DEFENSE SYSTEM: WEAPONS (ADVANCED DEVELOPMENT) |
| PSC: | 541712 | PSC Description: NAICS Description: | WEAPONS (ADVANCED |
| NAICS: | | | WEAPONS (ADVANCED DEVELOPMENT) RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT |
| NAICS: Entity City: | 541712 | NAICS Description: | WEAPONS (ADVANCED DEVELOPMENT) RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY) CA |
| NAICS: Entity City: Entity ZIP Code: Additional Reporting | 541712 EL SEGUNDO | NAICS Description: Entity State: | WEAPONS (ADVANCED DEVELOPMENT) RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY) CA |
| | 541712 EL SEGUNDO | NAICS Description: Entity State: Additional Reporting Code: | WEAPONS (ADVANCED DEVELOPMENT) RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY) CA |

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| Contract ID: | 0001 | Reference IDV: | FA865110D0325 |
|--------------------------------------|---|---|---|
| Modification Number: | 10 | Transaction Number: | 4 |
| Award/IDV Type: | DO Delivery Order | Action Obligation (\$): | \$160,000.00 |
| Date Signed: | Jul 5, 2016 | Solicitation Date: | - |
| Contracting Agency ID: | 5700 | Contracting Agency: | DEPT OF THE AIR FORCE |
| Contracting Office Name: | FA8651 AFRL RWK | PSC Type: | s |
| PSC: | AC53 | PSC Description: | R&D- DEFENSE SYSTEM: WEAPONS (ADVANCED DEVELOPMENT) |
| NAICS: | 541712 | NAICS Description: | RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY) |
| Entity City: | EL SEGUNDO | Entity State: | CA |
| Entity ZIP Code: | 902452804 | Additional Reporting Code: | _ |
| Additional Reporting Description: | - | Unique Entity ID: | T9XKQSKMW4J1 |
| Ultimate Parent Unique Entity ID: | NKVZLJL93QT6 | Ultimate Parent Legal Business Name: | NORTHROP GRUMMAN SYSTEMS CORPORATION |
| Legal Business Name: | NORTHROP GRUMMAN SYSTEMS CORPORATION | CAGE Code: | - |
| Contract ID: | 0001 | Reference IDV: | FA865110D0325 |
| Modification Number: | 3 | Transaction Number: | 4 |
| Award/IDV Type: | DO Delivery Order | Action Obligation (\$): | \$0.00 |
| Date Signed: | Sep 24, 2013 | Solicitation Date: | - |
| Contracting Agency ID: | 5700 | Contracting Agency: | DEPT OF THE AIR FORCE |
| Contracting Office Name: | FA8651 AFRL RWK | PSC Type: | S |
| PSC: | AC53 | PSC Description: | R&D- DEFENSE SYSTEM: WEAPONS (ADVANCED DEVELOPMENT) |
| NAICS: | 541712 | NAICS Description: | RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY) |
| Entity City: | EL SEGUNDO | Entity State: | CA |
| Entity ZIP Code: | 902452804 | Additional Reporting Code: | - |
| Additional Reporting | - | Unique Entity ID: | T9XKQSKMW4J1 |
| Description: | | | |
| Ultimate Parent Unique Entity ID: | NKVZLJL93QT6 | Ultimate Parent Legal Business Name: | NORTHROP GRUMMAN SYSTEMS CORPORATION |

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| | 0001 | | =3.0CE110D0305 |
|---------------------------------------|---|--|---|
| Contract ID: | 0001 | Reference IDV: | FA865110D0325 |
| Modification Number: | 5 | Transaction Number: | 4 |
| Award/IDV Type: | DO Delivery Order | Action Obligation (\$): | \$0.00 |
| Date Signed: | Mar 5, 2015 | Solicitation Date: | - |
| Contracting Agency ID: | 5700 | Contracting Agency: | DEPT OF THE AIR FORCE |
| Contracting Office Name: | FA8651 AFRL RWK | PSC Type: | S |
| PSC: | AC53 | PSC Description: | R&D- DEFENSE SYSTEM: WEAPONS (ADVANCED DEVELOPMENT) |
| NAICS: | 541712 | NAICS Description: | RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY) |
| Entity City: | EL SEGUNDO | Entity State: | CA |
| Entity ZIP Code: | 902452804 | Additional Reporting Code: | - |
| Additional Reporting Description: | - | Unique Entity ID: | T9XKQSKMW4J1 |
| Ultimate Parent Unique Entity ID: | NKVZLJL93QT6 | Ultimate Parent Legal Business Name: | NORTHROP GRUMMAN SYSTEMS CORPORATION |
| Legal Business Name: | NORTHROP GRUMMAN SYSTEMS CORPORATION | CAGE Code: | - |
| Contract ID: | 0001 | Reference IDV: | FA865110D0325 |
| Modification Number: | 6 | Transaction Number: | 4 |
| Award/IDV Type: | DO Delivery Order | Action Obligation (\$): | \$500,000.00 |
| Date Signed: | Jul 23, 2015 | Solicitation Date: | - |
| Contracting Agency ID: | 5700 | Contracting Agency: | DEPT OF THE AIR FORCE |
| Contracting Office Name: | FA8651 AFRL RWK | PSC Type: | S |
| PSC: | AC53 | PSC Description: | R&D- DEFENSE SYSTEM: WEAPONS (ADVANCED DEVELOPMENT) |
| NAICS: | 541712 | NAICS Description: | RESEARCH AND DEVELOPMENT IN THE PHYSICAL, |
| | | | ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY) |
| Entity City: | EL SEGUNDO | Entity State: | SCIENCES (EXCEPT |
| Entity City: Entity ZIP Code: | EL SEGUNDO 902452804 | Entity State: Additional Reporting Code: | SCIENCES (EXCEPT BIOTECHNOLOGY) |
| | | - | SCIENCES (EXCEPT BIOTECHNOLOGY) |
| Entity ZIP Code: Additional Reporting | | Additional Reporting Code: | SCIENCES (EXCEPT BIOTECHNOLOGY) CA |

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