| Contract ID: | 0001 | Reference IDV: | FA865014D1750 |
|--------------------------------------|---------------------------------------|---|---|
| Modification Number: | 0 | Transaction Number: | 4 |
| Award/IDV Type: | DO Delivery Order | Action Obligation (\$): | \$200,000.00 |
| Date Signed: | Oct 29, 2013 | Solicitation Date: | _ |
| Contracting Agency ID: | 5700 | Contracting Agency: | DEPT OF THE AIR FORCE |
| Contracting Office Name: | FA8650 USAF AFMC AFRL PZL AFRL/PZL | PSC Type: | S |
| PSC: | AC61 | PSC Description: | R&D- DEFENSE SYSTEM: ELECTRONICS/COMMUNICATION EQUIPMENT (BASIC RESEARCH) |
| NAICS: | 541712 | NAICS Description: | RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY) |
| Entity City: | LINTHICUM HEIGHTS | Entity State: | MD |
| Entity ZIP Code: | 210902202 | Additional Reporting Code: | - |
| Additional Reporting Description: | - | Unique Entity ID: | H9M6J1PND9M3 |
| Ultimate Parent Unique Entity ID: | NKVZLJL93QT6 | Ultimate Parent Legal Business Name: | NORTHROP GRUMMAN CORPORATION |
| Legal Business Name: | NORTHROP GRUMMAN SYSTEMS CORPORATION | CAGE Code: | - |
| Contract ID: | 0001 | Reference IDV: | FA865014D1750 |
| Modification Number: | 2 | Transaction Number: | 4 |
| Award/IDV Type: | DO Delivery Order | Action Obligation (\$): | \$0.00 |
| Date Signed: | Oct 28, 2014 | Solicitation Date: | _ |
| Contracting Agency ID: | 5700 | Contracting Agency: | DEPT OF THE AIR FORCE |
| Contracting Office Name: | FA8650 USAF AFMC AFRL PZL AFRL/PZL | PSC Type: | S |
| PSC: | AC61 | PSC Description: | R&D- DEFENSE SYSTEM: ELECTRONICS/COMMUNICATION EQUIPMENT (BASIC RESEARCH) |
| NAICS: | 541712 | NAICS Description: | RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY) |
| Entity City: | LINTHICUM HEIGHTS | Entity State: | MD |
| Entity ZIP Code: | 210902202 | Additional Reporting Code: | - |
| Additional Reporting Description: | - | Unique Entity ID: | H9M6J1PND9M3 |
| Ultimate Parent Unique Entity ID: | NKVZLJL93QT6 | Ultimate Parent Legal Business Name: | NORTHROP GRUMMAN CORPORATION |
| Legal Business Name: | NORTHROP GRUMMAN SYSTEMS | CAGE Code: | |

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| Contract ID: | 0001 | Reference IDV: | W56KGU17D0006 |
|--------------------------------------|---|---|---|
| Modification Number: | 4 | Transaction Number: | 1 |
| Award/IDV Type: | DO Delivery Order | Action Obligation (\$): | \$0.00 |
| Date Signed: | Mar 29, 2018 | Solicitation Date: | - |
| Contracting Agency ID: | 2100 | Contracting Agency: | DEPT OF THE ARMY |
| Contracting Office Name: | W6QK ACC-APG | PSC Type: | S |
| PSC: | AC61 | PSC Description: | R&D- DEFENSE SYSTEM: ELECTRONICS/COMMUNICATION EQUIPMENT (BASIC RESEARCH) |
| NAICS: | 541712 | NAICS Description: | RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY) |
| Entity City: | ROLLING MEADOWS | Entity State: | IL |
| Entity ZIP Code: | 600081015 | Additional Reporting Code: | _ |
| Additional Reporting Description: | - | Unique Entity ID: | E4X3BLZPPPX3 |
| Ultimate Parent Unique Entity ID: | NKVZLJL93QT6 | Ultimate Parent Legal Business Name: | Northrop Grumman Corporation |
| Legal Business Name: | NORTHROP GRUMMAN SYSTEMS CORPORATION | CAGE Code: | 26916 |
| Contract ID: | 0001 | Reference IDV: | W56KGU17D0006 |
| Modification Number: | 5 | Transaction Number: | 1 |
| Award/IDV Type: | DO Delivery Order | Action Obligation (\$): | \$0.00 |
| Date Signed: | May 2, 2018 | Solicitation Date: | - |
| Contracting Agency ID: | 2100 | Contracting Agency: | DEPT OF THE ARMY |
| Contracting Office Name: | W6QK ACC-APG | PSC Type: | S |
| PSC: | AC61 | PSC Description: | R&D- DEFENSE SYSTEM: ELECTRONICS/COMMUNICATION EQUIPMENT (BASIC RESEARCH) |
| NAICS: | 541712 | NAICS Description: | RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY) |
| Entity City: | ROLLING MEADOWS | Entity State: | IL |
| Entity ZIP Code: | 600081015 | Additional Reporting Code: | - |
| | | The Samuel Building TD | E4X3BLZPPPX3 |
| Additional Reporting Description: | - | Unique Entity ID: | ETASBUZFFFAS |
| | NKVZLJL93QT6 | Ultimate Parent Legal Business Name: | Northrop Grumman Corporation |

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| Contract ID: | 0001 | Reference IDV: | W56KGU17D0006 |
|--------------------------------------|--------------------------------------|---|---|
| Modification Number: | 6 | Transaction Number: | 1 |
| Award/IDV Type: | DO Delivery Order | Action Obligation (\$): | \$0.00 |
| Date Signed: | May 11, 2018 | Solicitation Date: | - |
| Contracting Agency ID: | 2100 | Contracting Agency: | DEPT OF THE ARMY |
| Contracting Office Name: | W6QK ACC-APG | PSC Type: | S |
| PSC: | AC61 | PSC Description: | R&D- DEFENSE SYSTEM: ELECTRONICS/COMMUNICATION EQUIPMENT (BASIC RESEARCH) |
| NAICS: | 541712 | NAICS Description: | RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY) |
| Entity City: | ROLLING MEADOWS | Entity State: | IL |
| Entity ZIP Code: | 600081015 | Additional Reporting Code: | _ |
| Additional Reporting Description: | - | Unique Entity ID: | E4X3BLZPPPX3 |
| Ultimate Parent Unique Entity ID: | NKVZLJL93QT6 | Ultimate Parent Legal Business Name: | Northrop Grumman Corporation |
| Legal Business Name: | NORTHROP GRUMMAN SYSTEMS CORPORATION | CAGE Code: | 26916 |
| Contract ID: | 0001 | Reference IDV: | W56KGU17D0006 |
| Modification Number: | 9 | Transaction Number: | 1 |
| Award/IDV Type: | DO Delivery Order | Action Obligation (\$): | \$0.00 |
| Date Signed: | Jun 29, 2018 | Solicitation Date: | - |
| Contracting Agency ID: | 2100 | Contracting Agency: | DEPT OF THE ARMY |
| Contracting Office Name: | W6QK ACC-APG | PSC Type: | S |
| PSC: | AC61 | PSC Description: | R&D- DEFENSE SYSTEM: ELECTRONICS/COMMUNICATION EQUIPMENT (BASIC RESEARCH) |
| NAICS: | 541712 | NAICS Description: | RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY) |
| Entity City: | ROLLING MEADOWS | Entity State: | IL |
| Entity ZIP Code: | 600081015 | Additional Reporting Code: | - |
| Additional Reporting Description: | - | Unique Entity ID: | E4X3BLZPPPX3 |
| | | | |
| Ultimate Parent Unique Entity ID: | NKVZLJL93QT6 | Ultimate Parent Legal Business Name: | Northrop Grumman Corporation |

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| Contract ID: | 0001 | Reference IDV: | W56KGU17D0006 |
|--------------------------------------|---|---|---|
| Modification Number: | 1 | Transaction Number: | 1 |
| Award/IDV Type: | DO Delivery Order | Action Obligation (\$): | \$0.00 |
| Date Signed: | Oct 27, 2017 | Solicitation Date: | - |
| Contracting Agency ID: | 2100 | Contracting Agency: | DEPT OF THE ARMY |
| Contracting Office Name: | W6QK ACC-APG | PSC Type: | S |
| PSC: | AC61 | PSC Description: | R&D- DEFENSE SYSTEM: ELECTRONICS/COMMUNICATION EQUIPMENT (BASIC RESEARCH) |
| NAICS: | 541712 | NAICS Description: | RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY) |
| Entity City: | ROLLING MEADOWS | Entity State: | IL |
| Entity ZIP Code: | 600081015 | Additional Reporting Code: | - |
| Additional Reporting Description: | - | Unique Entity ID: | E4X3BLZPPPX3 |
| Ultimate Parent Unique Entity ID: | NKVZLJL93QT6 | Ultimate Parent Legal Business Name: | Northrop Grumman Corporation |
| Legal Business Name: | NORTHROP GRUMMAN SYSTEMS CORPORATION | CAGE Code: | 26916 |
| Contract ID: | 0001 | Reference IDV: | FA865014D1750 |
| Modification Number: | 1A | Transaction Number: | 4 |
| Award/IDV Type: | DO Delivery Order | Action Obligation (\$): | -\$35,939.35 |
| Date Signed: | Apr 14, 2020 | Solicitation Date: | _ |
| Contracting Agency ID: | 9763 | Contracting Agency: | DEFENSE CONTRACT MANAGEMENT AGENCY (DCMA) |
| Contracting Office Name: | DCMA RADARS AND SENSORS | PSC Type: | S |
| PSC: | AC61 | PSC Description: | R&D- DEFENSE SYSTEM: ELECTRONICS/COMMUNICATION EQUIPMENT (BASIC RESEARCH) |
| NAICS: | 541712 | NAICS Description: | RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY) |
| Entity City: | LINTHICUM HEIGHTS | Entity State: | MD |
| Entity ZIP Code: | 210902202 | Additional Reporting Code: | - |
| Additional Reporting Description: | - | Unique Entity ID: | H9M6J1PND9M3 |
| Ultimate Parent Unique Entity ID: | NKVZLJL93QT6 | Ultimate Parent Legal Business Name: | NORTHROP GRUMMAN CORPORATION |
| Legal Business Name: | NORTHROP GRUMMAN SYSTEMS CORPORATION | CAGE Code: | 15055 |

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| Contract ID: | 0001 | Reference IDV: | W56KGU17D0006 |
|--------------------------------------|---|---|---|
| Modification Number: | 2 | Transaction Number: | 1 |
| Award/IDV Type: | DO Delivery Order | Action Obligation (\$): | \$0.00 |
| Date Signed: | Mar 15, 2018 | Solicitation Date: | - |
| Contracting Agency ID: | 2100 | Contracting Agency: | DEPT OF THE ARMY |
| Contracting Office Name: | W6QK ACC-APG | PSC Type: | s |
| PSC: | AC61 | PSC Description: | R&D- DEFENSE SYSTEM: ELECTRONICS/COMMUNICATION EQUIPMENT (BASIC RESEARCH) |
| NAICS: | 541712 | NAICS Description: | RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY) |
| Entity City: | ROLLING MEADOWS | Entity State: | IL |
| Entity ZIP Code: | 600081015 | Additional Reporting Code: | - |
| Additional Reporting Description: | - | Unique Entity ID: | E4X3BLZPPPX3 |
| Ultimate Parent Unique Entity ID: | NKVZLJL93QT6 | Ultimate Parent Legal Business Name: | Northrop Grumman Corporation |
| Legal Business Name: | NORTHROP GRUMMAN SYSTEMS CORPORATION | CAGE Code: | 26916 |
| Contract ID: | 0001 | Reference IDV: | FA865014D1750 |
| Modification Number: | 3 | Transaction Number: | 4 |
| Award/IDV Type: | DO Delivery Order | Action Obligation (\$): | \$0.00 |
| Date Signed: | May 6, 2015 | Solicitation Date: | - |
| Contracting Agency ID: | 5700 | Contracting Agency: | DEPT OF THE AIR FORCE |
| Contracting Office Name: | FA8650 USAF AFMC AFRL PZL AFRL/PZL | PSC Type: | S |
| PSC: | AC61 | PSC Description: | R&D- DEFENSE SYSTEM: ELECTRONICS/COMMUNICATION EQUIPMENT (BASIC RESEARCH) |
| NAICS: | 541712 | NAICS Description: | RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY) |
| Entity City: | LINTHICUM HEIGHTS | Entity State: | MD |
| Entity ZIP Code: | 210902202 | Additional Reporting Code: | - |
| Additional Reporting | - | Unique Entity ID: | H9M6J1PND9M3 |
| Description: | | | |
| Ultimate Parent Unique Entity ID: | NKVZLJL93QT6 | Ultimate Parent Legal Business Name: | NORTHROP GRUMMAN CORPORATION |

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| Contract ID: | 0001 | Reference IDV: | W56KGU17D0006 |
|--------------------------------------|---|---|---|
| Modification Number: | 8 | Transaction Number: | 1 |
| Award/IDV Type: | DO Delivery Order | Action Obligation (\$): | \$0.00 |
| Date Signed: | Jun 21, 2018 | Solicitation Date: | - |
| Contracting Agency ID: | 2100 | Contracting Agency: | DEPT OF THE ARMY |
| Contracting Office Name: | W6QK ACC-APG | PSC Type: | s |
| PSC: | AC61 | PSC Description: | R&D- DEFENSE SYSTEM: ELECTRONICS/COMMUNICATION EQUIPMENT (BASIC RESEARCH) |
| NAICS: | 541712 | NAICS Description: | RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY) |
| Entity City: | ROLLING MEADOWS | Entity State: | IL |
| Entity ZIP Code: | 600081015 | Additional Reporting Code: | _ |
| Additional Reporting Description: | - | Unique Entity ID: | E4X3BLZPPPX3 |
| Ultimate Parent Unique Entity ID: | NKVZLJL93QT6 | Ultimate Parent Legal Business Name: | Northrop Grumman Corporation |
| Legal Business Name: | NORTHROP GRUMMAN SYSTEMS CORPORATION | CAGE Code: | 26916 |
| Contract ID: | 0001 | Reference IDV: | w56KGU17D0006 |
| Modification Number: | 7 | Transaction Number: | 1 |
| Award/IDV Type: | DO Delivery Order | Action Obligation (\$): | \$0.00 |
| Date Signed: | Jun 14, 2018 | Solicitation Date: | - |
| Contracting Agency ID: | 2100 | Contracting Agency: | DEPT OF THE ARMY |
| Contracting Office Name: | W6QK ACC-APG | PSC Type: | S |
| PSC: | AC61 | PSC Description: | R&D- DEFENSE SYSTEM: ELECTRONICS/COMMUNICATION EQUIPMENT (BASIC RESEARCH) |
| NAICS: | 541712 | NAICS Description: | RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY) |
| Entity City: | ROLLING MEADOWS | Entity State: | IL |
| Entity ZIP Code: | 600081015 | Additional Reporting Code: | - |
| Additional Reporting Description: | - | Unique Entity ID: | E4X3BLZPPPX3 |
| Wilhimata Dament Waimes | NKVZLJL93QT6 | Ultimate Parent Legal | Northrop Grumman |
| Ultimate Parent Unique Entity ID: | NICVERS ESSETS | Business Name: | Corporation |

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| Contract ID: | 0001 | Reference IDV: | W56KGU17D0006 |
|---------------------------------------|---|--|---|
| Modification Number: | 3 | Transaction Number: | 1 |
| Award/IDV Type: | DO Delivery Order | Action Obligation (\$): | \$0.00 |
| Date Signed: | Mar 28, 2018 | Solicitation Date: | _ |
| Contracting Agency ID: | 2100 | Contracting Agency: | DEPT OF THE ARMY |
| Contracting Office Name: | W6QK ACC-APG | PSC Type: | S |
| PSC: | AC61 | PSC Description: | R&D- DEFENSE SYSTEM: ELECTRONICS/COMMUNICATION EQUIPMENT (BASIC RESEARCH) |
| NAICS: | 541712 | NAICS Description: | RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY) |
| Entity City: | ROLLING MEADOWS | Entity State: | IL |
| Entity ZIP Code: | 600081015 | Additional Reporting Code: | _ |
| Additional Reporting Description: | - | Unique Entity ID: | E4X3BLZPPPX3 |
| Ultimate Parent Unique Entity ID: | NKVZLJL93QT6 | Ultimate Parent Legal Business Name: | Northrop Grumman Corporation |
| Legal Business Name: | NORTHROP GRUMMAN SYSTEMS CORPORATION | CAGE Code: | 26916 |
| Contract ID: | 0001 | Reference IDV: | W56KGU17D0006 |
| Modification Number: | 0 | Transaction Number: | 1 |
| Award/IDV Type: | DO Delivery Order | Action Obligation (\$): | \$870,032.00 |
| Date Signed: | Sep 28, 2017 | Solicitation Date: | - |
| Contracting Agency ID: | 2100 | Contracting Agency: | DEPT OF THE ARMY |
| Contracting Office Name: | W6QK ACC-APG | PSC Type: | S |
| PSC: | AC61 | PSC Description: | R&D- DEFENSE SYSTEM: ELECTRONICS/COMMUNICATION EQUIPMENT (BASIC RESEARCH) |
| NAICS: | 541712 | NAICS Description: | RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY) |
| | | | |
| Entity City: | ROLLING MEADOWS | Entity State: | IL |
| Entity City: Entity ZIP Code: | ROLLING MEADOWS 600081015 | Entity State: Additional Reporting Code: | |
| | | | |
| Entity ZIP Code: Additional Reporting | | Additional Reporting Code: | - |

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| Contract ID: | 0001 | Reference IDV: | FA865014D1750 |
|--------------------------------------|---------------------------------------|---|---|
| Modification Number: | 1 | Transaction Number: | 4 |
| Award/IDV Type: | DO Delivery Order | Action Obligation (\$): | \$287,485.00 |
| Date Signed: | May 27, 2014 | Solicitation Date: | - |
| Contracting Agency ID: | 5700 | Contracting Agency: | DEPT OF THE AIR FORCE |
| Contracting Office Name: | FA8650 USAF AFMC AFRL PZL AFRL/PZL | PSC Type: | s |
| PSC: | AC61 | PSC Description: | R&D- DEFENSE SYSTEM: ELECTRONICS/COMMUNICATION EQUIPMENT (BASIC RESEARCH) |
| NAICS: | 541712 | NAICS Description: | RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY) |
| Entity City: | LINTHICUM HEIGHTS | Entity State: | MD |
| Entity ZIP Code: | 210902202 | Additional Reporting Code: | _ |
| Additional Reporting Description: | - | Unique Entity ID: | H9M6J1PND9M3 |
| Ultimate Parent Unique Entity ID: | NKVZLJL93QT6 | Ultimate Parent Legal Business Name: | NORTHROP GRUMMAN CORPORATION |
| Legal Business Name: | NORTHROP GRUMMAN SYSTEMS CORPORATION | CAGE Code: | - |

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