| Contract ID:  | 0001  | Reference IDV:   | FA945314D0255  |
|---|---|--|--|
| Modification Number:  | 2   | Transaction Number:  | 4  |
| Award/IDV Type:   | DO Delivery Order   | Action Obligation (\$):  | \$277,186.00   |
| Date Signed:  | Jul 30, 2015  | Solicitation Date:   | -  |
| Contracting Agency ID:  | 5700  | Contracting Agency:  | DEPT OF THE AIR FORCE  |
| Contracting Office Name:  | FA9453 AFRL RVK   | PSC Type:  | S  |
| PSC:  | AC22  | PSC Description:   | R&D- DEFENSE SYSTEM: MISSILE/SPACE SYSTEMS (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT)  |
| NAICS:  | 541712  | NAICS Description:   | RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)  |
| Entity City:  | REDONDO BEACH   | Entity State:  | CA   |
| Entity ZIP Code:  | 902781001   | Additional Reporting Code:   | -  |
| Additional Reporting Description:   | -   | Unique Entity ID:  | WL6XPAJVBK83   |
| Ultimate Parent Unique<br>Entity ID:  | NKVZLJL93QT6  | Ultimate Parent Legal<br>Business Name:  | NORTHROP GRUMMAN<br>CORPORATION  |
| Legal Business Name:  | NORTHROP GRUMMAN SYSTEMS<br>CORPORATION                       | CAGE Code:   | -  |
| Contract ID:  | 0001  | Reference IDV:   | FA945314D0255  |
| Modification Number:  | 3   | Transaction Number:  | 4  |
| Award/IDV Type:   | DO Delivery Order   | Action Obligation (\$):  | \$0.00   |
|   |   |  |  |
| Date Signed:  | Sep 30, 2015  | Solicitation Date:   | _  |
| Date Signed: Contracting Agency ID:   | Sep 30, 2015<br>5700  | Solicitation Date: Contracting Agency:   | DEPT OF THE AIR FORCE  |
|   |   |  | DEPT OF THE AIR FORCE  |
| Contracting Agency ID:  | 5700  | Contracting Agency:  |  |
| Contracting Agency ID: Contracting Office Name:   | 5700<br>FA9453 AFRL RVK                                       | Contracting Agency: PSC Type:  | S  R&D- DEFENSE SYSTEM: MISSILE/SPACE SYSTEMS (APPLIED RESEARCH/EXPLORATORY  |
| Contracting Agency ID: Contracting Office Name: PSC:  | 5700<br>FA9453 AFRL RVK<br>AC22                               | Contracting Agency: PSC Type: PSC Description:   | S  R&D- DEFENSE SYSTEM: MISSILE/SPACE SYSTEMS (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT)  RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT                 |
| Contracting Agency ID: Contracting Office Name: PSC: NAICS:   | 5700<br>FA9453 AFRL RVK<br>AC22<br>541712                     | Contracting Agency: PSC Type: PSC Description: NAICS Description:  | S  R&D- DEFENSE SYSTEM: MISSILE/SPACE SYSTEMS (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT)  RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)  |
| Contracting Agency ID: Contracting Office Name: PSC: NAICS:   | 5700  FA9453 AFRL RVK  AC22  541712  REDONDO BEACH            | Contracting Agency: PSC Type: PSC Description:  NAICS Description: Entity State:                             | S  R&D- DEFENSE SYSTEM: MISSILE/SPACE SYSTEMS (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT)  RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)  |
| Contracting Agency ID: Contracting Office Name: PSC:  NAICS: Entity City: Entity ZIP Code: Additional Reporting | 5700  FA9453 AFRL RVK  AC22  541712  REDONDO BEACH  902781001 | Contracting Agency: PSC Type: PSC Description:  NAICS Description:  Entity State: Additional Reporting Code: | S R&D- DEFENSE SYSTEM: MISSILE/SPACE SYSTEMS (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT) RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY) CA |

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| Contract ID:  | 0001   | Reference IDV:   | FA945314D0255  |
|---|--|--|--|
| Modification Number:  | 0  | Transaction Number:  | 4  |
| Award/IDV Type:   | DO Delivery Order  | Action Obligation (\$):  | \$1,551,459.00   |
| Date Signed:  | Sep 12, 2014   | Solicitation Date:   | -  |
| Contracting Agency ID:  | 5700   | Contracting Agency:  | DEPT OF THE AIR FORCE  |
| Contracting Office Name:  | FA9453 AFRL RVK  | PSC Type:  | S  |
| PSC:  | AC22   | PSC Description:   | R&D- DEFENSE SYSTEM: MISSILE/SPACE SYSTEMS (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT)  |
| NAICS:  | 541712   | NAICS Description:   | RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)  |
| Entity City:  | REDONDO BEACH  | Entity State:  | CA   |
| Entity ZIP Code:  | 902781001  | Additional Reporting Code:   | -  |
| Additional Reporting Description:   | -  | Unique Entity ID:  | WL6XPAJVBK83   |
| Ultimate Parent Unique<br>Entity ID:  | NKVZLJL93QT6   | Ultimate Parent Legal<br>Business Name:  | NORTHROP GRUMMAN<br>CORPORATION  |
| Legal Business Name:  | NORTHROP GRUMMAN SYSTEMS CORPORATION                       | CAGE Code:   | -  |
| Contract ID:  | 0001   | Reference IDV:   | FA945314D0220  |
| Modification Number:  | 2  | Transaction Number:  | 4  |
| Award/IDV Type:   | DO Delivery Order  | Action Obligation (\$):  | \$0.00   |
| Date Signed:  |  | Solicitation Date:   | _  |
| Date Digited.   | Nov 25, 2014   |  |  |
| Contracting Agency ID:  | Nov 25, 2014<br>5700                                       | Contracting Agency:  | DEPT OF THE AIR FORCE  |
|   |  |  | DEPT OF THE AIR FORCE  |
| Contracting Agency ID:  | 5700   | Contracting Agency:  |  |
| Contracting Agency ID: Contracting Office Name:   | 5700<br>FA9453 AFRL RVK                                    | Contracting Agency: PSC Type:  | S  R&D- DEFENSE SYSTEM: MISSILE/SPACE SYSTEMS (APPLIED RESEARCH/EXPLORATORY  |
| Contracting Agency ID: Contracting Office Name: PSC:  | 5700<br>FA9453 AFRL RVK<br>AC22                            | Contracting Agency: PSC Type: PSC Description:   | S  R&D- DEFENSE SYSTEM: MISSILE/SPACE SYSTEMS (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT)  RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT                 |
| Contracting Agency ID: Contracting Office Name: PSC: NAICS:   | 5700<br>FA9453 AFRL RVK<br>AC22<br>541712                  | Contracting Agency: PSC Type: PSC Description: NAICS Description:  | S  R&D- DEFENSE SYSTEM: MISSILE/SPACE SYSTEMS (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT)  RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)  |
| Contracting Agency ID: Contracting Office Name: PSC: NAICS:   | 5700 FA9453 AFRL RVK AC22  541712  REDONDO BEACH           | Contracting Agency: PSC Type: PSC Description:  NAICS Description: Entity State:                             | S  R&D- DEFENSE SYSTEM: MISSILE/SPACE SYSTEMS (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT)  RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)  |
| Contracting Agency ID: Contracting Office Name: PSC:  NAICS: Entity City: Entity ZIP Code: Additional Reporting | 5700 FA9453 AFRL RVK AC22  541712  REDONDO BEACH 902781001 | Contracting Agency: PSC Type: PSC Description:  NAICS Description:  Entity State: Additional Reporting Code: | S R&D- DEFENSE SYSTEM: MISSILE/SPACE SYSTEMS (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT) RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY) CA |

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| Contract ID:  | 0001   | Reference IDV:   | FA945314D0220  |
|---|--|--|--|
| Modification Number:  | 1  | Transaction Number:  | 4  |
| Award/IDV Type:   | DO Delivery Order  | Action Obligation (\$):  | \$0.00   |
| Date Signed:  | Aug 22, 2014   | Solicitation Date:   | _  |
| Contracting Agency ID:  | 5700   | Contracting Agency:  | DEPT OF THE AIR FORCE  |
| Contracting Office Name:  | FA9453 AFRL RVK  | PSC Type:  | S  |
| PSC:  | AC22   | PSC Description:   | R&D- DEFENSE SYSTEM: MISSILE/SPACE SYSTEMS (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT)  |
| NAICS:  | 541712   | NAICS Description:   | RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)  |
| Entity City:  | REDONDO BEACH  | Entity State:  | CA   |
| Entity ZIP Code:  | 902781001  | Additional Reporting Code:   | -  |
| Additional Reporting Description:   | -  | Unique Entity ID:  | WL6XPAJVBK83   |
| Ultimate Parent Unique<br>Entity ID:  | NKVZLJL93QT6   | Ultimate Parent Legal<br>Business Name:  | NORTHROP GRUMMAN<br>CORPORATION  |
| Legal Business Name:  | NORTHROP GRUMMAN SYSTEMS<br>CORPORATION                    | CAGE Code:   | -  |
| Contract ID:  | 0001   | Reference IDV:   | FA945314D0220  |
| Modification Number:  | 3  | Transaction Number:  | 4  |
| Award/IDV Type:   | DO Delivery Order  | Action Obligation (\$):  | \$0.00   |
| Date Signed:  | Feb 26, 2015   | Solicitation Date:   | -  |
|   |  |  |  |
| Contracting Agency ID:  | 5700   | Contracting Agency:  | DEPT OF THE AIR FORCE  |
| Contracting Agency ID: Contracting Office Name:   |  | Contracting Agency: PSC Type:  | DEPT OF THE AIR FORCE  |
|   | 5700   |  |  |
| Contracting Office Name:  | 5700<br>FA9453 AFRL RVK                                    | PSC Type:  | S  R&D- DEFENSE SYSTEM: MISSILE/SPACE SYSTEMS (APPLIED RESEARCH/EXPLORATORY  |
| Contracting Office Name: PSC:   | 5700<br>FA9453 AFRL RVK<br>AC22                            | PSC Type: PSC Description:   | S  R&D- DEFENSE SYSTEM: MISSILE/SPACE SYSTEMS (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT)  RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT                 |
| Contracting Office Name: PSC: NAICS:  | 5700<br>FA9453 AFRL RVK<br>AC22<br>541712                  | PSC Type: PSC Description: NAICS Description:  | S  R&D- DEFENSE SYSTEM: MISSILE/SPACE SYSTEMS (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT)  RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)  |
| Contracting Office Name: PSC: NAICS: Entity City:   | 5700 FA9453 AFRL RVK AC22  541712  REDONDO BEACH           | PSC Type:  PSC Description:  NAICS Description:  Entity State:                             | S  R&D- DEFENSE SYSTEM: MISSILE/SPACE SYSTEMS (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT)  RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)  |
| Contracting Office Name: PSC:  NAICS:  Entity City: Entity ZIP Code: Additional Reporting | 5700 FA9453 AFRL RVK AC22  541712  REDONDO BEACH 902781001 | PSC Type:  PSC Description:  NAICS Description:  Entity State:  Additional Reporting Code: | S R&D- DEFENSE SYSTEM: MISSILE/SPACE SYSTEMS (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT) RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY) CA |

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| Contract ID:                         | 0001   | Reference IDV:                          | FA945309D0375   |
|--------------------------------------|--|---|---|
| Modification Number:                 | 2  | Transaction Number:                     | 8   |
| Award/IDV Type:                      | DO Delivery Order                              | Action Obligation (\$):                 | \$199,315.00  |
| Date Signed:                         | Dec 8, 2009                                    | Solicitation Date:                      | _   |
| Contracting Agency ID:               | 5700   | Contracting Agency:                     | DEPT OF THE AIR FORCE   |
| Contracting Office Name:             | FA9453 AFRL RVK                                | PSC Type:                               | s   |
| PSC:                                 | AC21   | PSC Description:                        | R&D-MISSILE & SPACE SYS-B<br>RES  |
| NAICS:                               | 541712   | NAICS Description:                      | RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)             |
| Entity City:                         | REDONDO BEACH                                  | Entity State:                           | CA  |
| Entity ZIP Code:                     | 902781001                                      | Additional Reporting Code:              | -   |
| Additional Reporting Description:    | -  | Unique Entity ID:                       | VSBAFMDKTWL4  |
| Ultimate Parent Unique<br>Entity ID: | PZQHGH183LA1                                   | Ultimate Parent Legal<br>Business Name: | NORTHROP GRUMMAN<br>CORPORATION   |
| Legal Business Name:                 | NORTHROP GRUMMAN SPACE & MISSION SYSTEMS CORP. | CAGE Code:                              | -   |
| Contract ID:                         | 0001   | Reference IDV:                          | FA945314D0220   |
| Modification Number:                 | 5  | Transaction Number:                     | 4   |
| Award/IDV Type:                      | DO Delivery Order                              | Action Obligation (\$):                 | \$0.00  |
| Date Signed:                         | Apr 20, 2015                                   | Solicitation Date:                      | _   |
| Contracting Agency ID:               | 5700   | Contracting Agency:                     | DEPT OF THE AIR FORCE   |
| Contracting Office Name:             | FA9453 AFRL RVK                                | PSC Type:                               | S   |
| PSC:                                 | AC22   | PSC Description:                        | R&D- DEFENSE SYSTEM: MISSILE/SPACE SYSTEMS (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT)                       |
| NAICS:                               | 541712   | NAICS Description:                      | RESEARCH AND DEVELOPMENT<br>IN THE PHYSICAL,<br>ENGINEERING, AND LIFE<br>SCIENCES (EXCEPT<br>BIOTECHNOLOGY) |
| Entity City:                         | REDONDO BEACH                                  | Entity State:                           | CA  |
| Entity ZIP Code:                     | 902781001                                      | Additional Reporting Code:              | -   |
| Additional Reporting Description:    | -  | Unique Entity ID:                       | WL6XPAJVBK83  |
| Ultimate Parent Unique<br>Entity ID: | NKVZLJL93QT6                                   | Ultimate Parent Legal<br>Business Name: | NORTHROP GRUMMAN<br>CORPORATION   |
| Legal Business Name:                 | NORTHROP GRUMMAN SYSTEMS CORPORATION           | CAGE Code:                              | -   |

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| Contract ID:                         | 0001   | Reference IDV:                          | FA945314D0220   |
|--------------------------------------|--|---|---|
| Modification Number:                 | 6  | Transaction Number:                     | 4   |
| Award/IDV Type:                      | DO Delivery Order                              | Action Obligation (\$):                 | \$0.00  |
| Date Signed:                         | May 19, 2015                                   | Solicitation Date:                      | -   |
| Contracting Agency ID:               | 5700   | Contracting Agency:                     | DEPT OF THE AIR FORCE   |
| Contracting Office Name:             | FA9453 AFRL RVK                                | PSC Type:                               | S   |
| PSC:                                 | AC22   | PSC Description:                        | R&D- DEFENSE SYSTEM: MISSILE/SPACE SYSTEMS (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT)           |
| NAICS:                               | 541712   | NAICS Description:                      | RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY) |
| Entity City:                         | REDONDO BEACH                                  | Entity State:                           | CA  |
| Entity ZIP Code:                     | 902781001                                      | Additional Reporting Code:              | -   |
| Additional Reporting Description:    | -  | Unique Entity ID:                       | WL6XPAJVBK83  |
| Ultimate Parent Unique Entity ID:    | NKVZLJL93QT6                                   | Ultimate Parent Legal<br>Business Name: | NORTHROP GRUMMAN<br>CORPORATION   |
| Legal Business Name:                 | NORTHROP GRUMMAN SYSTEMS<br>CORPORATION        | CAGE Code:                              | -   |
| Contract ID:                         | 0001   | Reference IDV:                          | FA945309D0375   |
| Modification Number:                 | 0  | Transaction Number:                     | 8   |
| Award/IDV Type:                      | DO Delivery Order                              | Action Obligation (\$):                 | \$200,000.00  |
| Date Signed:                         | Sep 30, 2009                                   | Solicitation Date:                      | -   |
| Contracting Agency ID:               | 5700   | Contracting Agency:                     | DEPT OF THE AIR FORCE   |
| Contracting Office Name:             | FA9453 AFRL RVK                                | PSC Type:                               | s   |
| PSC:                                 | AC21   | PSC Description:                        | R&D-MISSILE & SPACE SYS-B<br>RES  |
| NAICS:                               | 541712   | NAICS Description:                      | RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY) |
| Entity City:                         | REDONDO BEACH                                  | Entity State:                           | CA  |
| Entity ZIP Code:                     | 902781001                                      | Additional Reporting Code:              | -   |
| Additional Reporting Description:    | -  | Unique Entity ID:                       | VSBAFMDKTWL4  |
| Ultimate Parent Unique<br>Entity ID: | PZQHGH183LA1                                   | Ultimate Parent Legal<br>Business Name: | NORTHROP GRUMMAN<br>CORPORATION   |
| Legal Business Name:                 | NORTHROP GRUMMAN SPACE & MISSION SYSTEMS CORP. | CAGE Code:                              | -   |

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| Contract ID:                         | 0001   | Reference IDV:                          | FA945314D0220   |
|--------------------------------------|--|---|---|
| Modification Number:                 | 0  | Transaction Number:                     | 4   |
| Award/IDV Type:                      | DO Delivery Order                              | Action Obligation (\$):                 | \$1,089,908.00  |
| Date Signed:                         | Jun 10, 2014                                   | Solicitation Date:                      | _   |
| Contracting Agency ID:               | 5700   | Contracting Agency:                     | DEPT OF THE AIR FORCE   |
| Contracting Office Name:             | FA9453 AFRL RVK                                | PSC Type:                               | S   |
| PSC:                                 | AC22   | PSC Description:                        | R&D- DEFENSE SYSTEM: MISSILE/SPACE SYSTEMS (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT)           |
| NAICS:                               | 541712   | NAICS Description:                      | RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY) |
| Entity City:                         | REDONDO BEACH                                  | Entity State:                           | CA  |
| Entity ZIP Code:                     | 902781001                                      | Additional Reporting Code:              | -   |
| Additional Reporting Description:    | -  | Unique Entity ID:                       | WL6XPAJVBK83  |
| Ultimate Parent Unique<br>Entity ID: | NKVZLJL93QT6                                   | Ultimate Parent Legal<br>Business Name: | NORTHROP GRUMMAN<br>CORPORATION   |
| Legal Business Name:                 | NORTHROP GRUMMAN SYSTEMS<br>CORPORATION        | CAGE Code:                              | -   |
| Contract ID:                         | 0001   | Reference IDV:                          | FA945309D0375   |
| Modification Number:                 | 1  | Transaction Number:                     | 8   |
| Award/IDV Type:                      | DO Delivery Order                              | Action Obligation (\$):                 | \$100,000.00  |
| Date Signed:                         | Nov 2, 2009                                    | Solicitation Date:                      | -   |
| Contracting Agency ID:               | 5700   | Contracting Agency:                     | DEPT OF THE AIR FORCE   |
| Contracting Office Name:             | FA9453 AFRL RVK                                | PSC Type:                               | S   |
| PSC:                                 | AC21   | PSC Description:                        | R&D-MISSILE & SPACE SYS-B<br>RES  |
| NAICS:                               | 541712   | NAICS Description:                      | RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY) |
| Entity City:                         | REDONDO BEACH                                  | Entity State:                           | CA  |
| Entity ZIP Code:                     | 902781001                                      | Additional Reporting Code:              | -   |
| Additional Reporting Description:    | -  | Unique Entity ID:                       | VSBAFMDKTWL4  |
| Ultimate Parent Unique<br>Entity ID: | PZQHGH183LA1                                   | Ultimate Parent Legal<br>Business Name: | NORTHROP GRUMMAN<br>CORPORATION   |
| Legal Business Name:                 | NORTHROP GRUMMAN SPACE & MISSION SYSTEMS CORP. | CAGE Code:                              | -   |

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| Contract ID:  | 0001  | Reference IDV:   | FA945314D0255  |
|---|---|--|--|
| Modification Number:  | 1   | Transaction Number:  | 4  |
| Award/IDV Type:   | DO Delivery Order                                     | Action Obligation (\$):  | \$0.00   |
| Date Signed:  | Oct 27, 2014  | Solicitation Date:   | -  |
| Contracting Agency ID:  | 5700  | Contracting Agency:  | DEPT OF THE AIR FORCE  |
| Contracting Office Name:  | FA9453 AFRL RVK                                       | PSC Type:  | S  |
| PSC:  | AC22  | PSC Description:   | R&D- DEFENSE SYSTEM: MISSILE/SPACE SYSTEMS (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT)  |
| NAICS:  | 541712  | NAICS Description:   | RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)  |
| Entity City:  | REDONDO BEACH   | Entity State:  | CA   |
| Entity ZIP Code:  | 902781001   | Additional Reporting Code:   | -  |
| Additional Reporting Description:   | -   | Unique Entity ID:  | WL6XPAJVBK83   |
| Ultimate Parent Unique<br>Entity ID:  | NKVZLJL93QT6  | Ultimate Parent Legal<br>Business Name:  | NORTHROP GRUMMAN<br>CORPORATION  |
| Legal Business Name:  | NORTHROP GRUMMAN SYSTEMS<br>CORPORATION               | CAGE Code:   | -  |
| Contract ID:  | 0001  | Reference IDV:   | FA945314D0220  |
| Modification Number:  | 7   | Transaction Number:  | 4  |
| Award/IDV Type:   | DO Delivery Order                                     | Action Obligation (\$):  | \$0.00   |
| Date Signed:  | Nov 6, 2015   | Solicitation Date:   | _  |
|   |   |  |  |
| Contracting Agency ID:  | 5700  | Contracting Agency:  | DEPT OF THE AIR FORCE  |
| Contracting Agency ID: Contracting Office Name:   | 5700<br>FA9453 AFRL RVK                               | Contracting Agency: PSC Type:  | DEPT OF THE AIR FORCE  |
|   |   |  |  |
| Contracting Office Name:  | FA9453 AFRL RVK                                       | PSC Type:  | S  R&D- DEFENSE SYSTEM: MISSILE/SPACE SYSTEMS (APPLIED RESEARCH/EXPLORATORY  |
| Contracting Office Name: PSC:   | FA9453 AFRL RVK AC22                                  | PSC Type: PSC Description:   | S  R&D- DEFENSE SYSTEM: MISSILE/SPACE SYSTEMS (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT)  RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT                 |
| Contracting Office Name: PSC: NAICS:  | FA9453 AFRL RVK AC22 541712                           | PSC Type: PSC Description: NAICS Description:  | S  R&D- DEFENSE SYSTEM: MISSILE/SPACE SYSTEMS (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT)  RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)  |
| Contracting Office Name: PSC: NAICS: Entity City:   | FA9453 AFRL RVK AC22  541712  REDONDO BEACH           | PSC Type:  PSC Description:  NAICS Description:  Entity State:                             | S  R&D- DEFENSE SYSTEM: MISSILE/SPACE SYSTEMS (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT)  RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)  |
| Contracting Office Name: PSC:  NAICS:  Entity City: Entity ZIP Code: Additional Reporting | FA9453 AFRL RVK AC22  541712  REDONDO BEACH 902781001 | PSC Type:  PSC Description:  NAICS Description:  Entity State:  Additional Reporting Code: | S R&D- DEFENSE SYSTEM: MISSILE/SPACE SYSTEMS (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT) RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY) CA |

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| Contract ID:                         | 0001                                 | Reference IDV:                          | FA945314D0220   |
|--------------------------------------|--------------------------------------|---|---|
| Modification Number:                 | 4                                    | Transaction Number:                     | 4   |
| Award/IDV Type:                      | DO Delivery Order                    | Action Obligation (\$):                 | \$0.00  |
| Date Signed:                         | Mar 2, 2015                          | Solicitation Date:                      | -   |
| Contracting Agency ID:               | 5700                                 | Contracting Agency:                     | DEPT OF THE AIR FORCE   |
| Contracting Office Name:             | FA9453 AFRL RVK                      | PSC Type:                               | S   |
| PSC:                                 | AC22                                 | PSC Description:                        | R&D- DEFENSE SYSTEM: MISSILE/SPACE SYSTEMS (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT)           |
| NAICS:                               | 541712                               | NAICS Description:                      | RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY) |
| Entity City:                         | REDONDO BEACH                        | Entity State:                           | CA  |
| Entity ZIP Code:                     | 902781001                            | Additional Reporting Code:              | -   |
| Additional Reporting Description:    | -                                    | Unique Entity ID:                       | WL6XPAJVBK83  |
| Ultimate Parent Unique<br>Entity ID: | NKVZLJL93QT6                         | Ultimate Parent Legal<br>Business Name: | NORTHROP GRUMMAN<br>CORPORATION   |
| Legal Business Name:                 | NORTHROP GRUMMAN SYSTEMS CORPORATION | CAGE Code:                              | -   |

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