Contract ID:	0001	Reference IDV:	FA865110D0325
Modification Number:	0	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$580,690.00
Date Signed:	Sep 9, 2010	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:	WEAPONS (ADVANCED)
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:	PZQHGH183LA1	Ultimate Parent Legal Business Name:	NORTHROP GRUMMAN CORPORATION
Legal Business Name:	NORTHROP GRUMMAN SYSTEMS CORPORATION	CAGE Code:	-
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:	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:	-
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:	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
Contracting Office Name: PSC:	AC53	PSC Type: PSC Description:	S R&D- DEFENSE SYSTEM: WEAPONS (ADVANCED DEVELOPMENT)
			R&D- DEFENSE SYSTEM: WEAPONS (ADVANCED
PSC: NAICS:	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: NAICS 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

Contract ID:	0001	Reference IDV:	FA865110D0325
Modification Number:	б	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:	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:	
	541712 EL SEGUNDO	NAICS Description: Entity State:	DEVELOPMENT) RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT
Entity City:		-	DEVELOPMENT) RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY) CA
Entity City: Entity ZIP Code: Additional Reporting	EL SEGUNDO	Entity State:	DEVELOPMENT) RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY) CA
NAICS: Entity City: Entity ZIP Code: Additional Reporting Description: Ultimate Parent Unique Entity ID:	EL SEGUNDO	Entity State: Additional Reporting Code:	DEVELOPMENT) RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY) CA -

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	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

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:	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:	DEVELOPMENT) RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
	541712 EL SEGUNDO	NAICS Description: Entity State:	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT
Entity City:		-	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY) CA
Entity City: Entity ZIP Code: Additional Reporting	EL SEGUNDO	Entity State:	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY) CA
NAICS: Entity City: Entity ZIP Code: Additional Reporting Description: Ultimate Parent Unique Entity ID:	EL SEGUNDO	Entity State: Additional Reporting Code:	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY) CA

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:	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:	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)
	541712 EL SEGUNDO	NAICS Description: Entity State:	IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT
Entity City:			IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY) CA
Entity City: Entity ZIP Code: Additional Reporting	EL SEGUNDO	Entity State:	IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY) CA
NAICS: Entity City: Entity ZIP Code: Additional Reporting Description: Ultimate Parent Unique Entity ID:	EL SEGUNDO	Entity State: Additional Reporting Code:	IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY) CA

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 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:	-