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:	FA865008D7801
Modification Number:	13	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$320,000.00
Date Signed:	Mar 14, 2011	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:	AC22	PSC Description:	R&D-MISSILE & SPACE SYS-A RES/EXPL
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:	F9SDJAZFTLG6	Ultimate Parent Legal Business Name:	Huntington Ingalls Industries Inc.
Legal Business Name:	NORTHROP GRUMMAN SYSTEMS CORPORATION	CAGE Code:	-

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Contract ID:	0001	Reference IDV:	FA865008D7801
Modification Number:	16	Transaction Number:	4
			_
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$150,000.00
Date Signed:	Sep 28, 2011	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:	AC22	PSC Description:	R&D-MISSILE & SPACE SYS-A RES/EXPL
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:	FA865008D7801
Modification Number:	11	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$25,000.00
Date Signed:	Nov 16, 2010	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:	AC22	PSC Description:	R&D-MISSILE & SPACE SYS-A RES/EXPL
NAICS:	541712	NAICS Description:	RESEARCH AND DEVELOPMENT
MALCO.			IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
	EL SEGUNDO	Entity State:	ENGINEERING, AND LIFE SCIENCES (EXCEPT
Entity City:		Entity State: Additional Reporting Code:	ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
Entity City: Entity ZIP Code: Additional Reporting	EL SEGUNDO		ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY) CA
Entity City: Entity ZIP Code: Additional Reporting Description: Ultimate Parent Unique Entity ID:	EL SEGUNDO	Additional Reporting Code:	ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY) CA

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Contract ID:	0001	Reference IDV:	FA865008D7801
Modification Number:	15	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$60,000.00
Date Signed:	Aug 26, 2011	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:	AC22	PSC Description:	R&D-MISSILE & SPACE SYS-A RES/EXPL
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:	FA865008D7801
Modification Number:	14	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$280,242.00
Date Signed:	Jun 14, 2011	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:	AC22	PSC Description:	R&D-MISSILE & SPACE SYS-A RES/EXPL
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 Legal	NORTHROP GRUMMAN SYSTEMS
Ultimate Parent Unique Entity ID:	NKVZLJL93QT6	Business Name:	CORPORATION

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Combined TD	0001	D. C Thu	F7.0CF000DF001
Contract ID:	0001	Reference IDV:	FA865008D7801
Modification Number:	12	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$75,000.00
Date Signed:	Feb 7, 2011	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:	AC22	PSC Description:	R&D-MISSILE & SPACE SYS-A RES/EXPL
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:	F9SDJAZFTLG6	Ultimate Parent Legal Business Name:	Huntington Ingalls Industries Inc.
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:	ENGINEERING, AND LIFE SCIENCES (EXCEPT
Entity City: Entity ZIP Code:	EL SEGUNDO 902452804	Entity State: Additional Reporting Code:	ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
Entity ZIP Code: Additional Reporting		-	ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
		Additional Reporting Code:	ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)

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Contract ID:	0001	Reference IDV:	FA865014D1731
Modification Number:	0	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$50,000.00
Date Signed:	Sep 30, 2014	Solicitation Date:	_
Contracting Agency ID:	5700	Contracting Agency:	DEPT OF THE AIR FORCE
Contracting Office Name:	FA8650 USAF AFMC AFRL PZL		S S
Contracting office Name:	AFRL/PZL	rsc Type:	3
PSC:	AC63	PSC Description:	R&D- DEFENSE SYSTEM: ELECTRONICS/COMMUNICATION EQUIPMENT (ADVANCED DEVELOPMENT)
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:	-
Energy Bir Code:		Unique Entity ID:	H9M6J1PND9M3
Additional Reporting Description:	-	onique Encicy iD:	IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII
Additional Reporting	- NKVZLJL93QT6	Ultimate Parent Legal Business Name:	NORTHROP GRUMMAN CORPORATION

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		_	
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:	FA233008D0001
Modification Number:	0	Transaction Number:	6
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$456,133.00
Date Signed:	Jul 11, 2008	Solicitation Date:	-
Contracting Agency ID:	5700	Contracting Agency:	DEPT OF THE AIR FORCE
Contracting Office Name:	FA2330 ARSPC MGNT SYSTMS AFLCMC/HBA	PSC Type:	S
PSC:	B513	PSC Description:	STUDY/FEASIBILITY - NON- CONTRUCT
NAICS:	541712	NAICS Description:	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
Entity City:	MELBOURNE	Entity State:	FL
Entity ZIP Code:	329042322	Additional Reporting Code:	-
Additional Reporting Description:	-	Unique Entity ID:	PK8PM2GNVMP8
Ultimate Parent Unique	PZQHGH183LA1	Ultimate Parent Legal Business Name:	NORTHROP GRUMMAN CORPORATION
Entity ID:		-up-nopp number	COILI OILIII IOIV

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Contract ID:	0001	Reference IDV:	FA865008D7801
Modification Number:	1	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$408,266.00
Date Signed:	Feb 14, 2008	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:	AC22	PSC Description:	R&D-MISSILE & SPACE SYS-A RES/EXPL
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:	FA945112D0178
Modification Number:	1	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$0.00
Date Signed:	Jun 19, 2013	Solicitation Date:	_
Contracting Agency ID:	5700	Contracting Agency:	DEPT OF THE AIR FORCE
Contracting Office Name:	FA9451 AFRL RDK	PSC Type:	S
PSC:	AC52	PSC Description:	R&D- DEFENSE SYSTEM: WEAPONS (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	NKVZLJL93QT6	Ultimate Parent Legal Business Name:	NORTHROP GRUMMAN CORPORATION
Entity ID:			

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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:	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:	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 State:	CA
Entity City:	EL SEGUNDO	_	
Entity City: Entity ZIP Code:	EL SEGUNDO 902452804	Additional Reporting Code:	-
Entity ZIP Code: Additional Reporting			- T9XKQSKMW4J1
	902452804	Additional Reporting Code:	

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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 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:	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)
		NATES Demonstration	
NAICS:	541712	NAICS Description:	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
NAICS: Entity City:	541712 EL SEGUNDO	Entity State:	IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT
		·	IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
Entity City:	EL SEGUNDO	Entity State:	IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
Entity City: Entity ZIP Code: Additional Reporting	EL SEGUNDO 902452804	Entity State: Additional Reporting Code:	IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY) CA

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Contract ID:	0001	Reference IDV:	FA865008D7801
Modification Number:	2	Transaction Number:	4
			_
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$150,000.00
Date Signed:	Dec 23, 2008	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:	AC22	PSC Description:	R&D-MISSILE & SPACE SYS-A RES/EXPL
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:	FA865008D1447
Modification Number:	1	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$1,234,261.00
Date Signed:	Dec 1, 2008	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:	AC64	PSC Description:	R&D-ELECTRONICS & COMM EQ- ENG DEV
NAICS:	541712	NAICS Description:	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
NAICS: Entity City:	541712 LINTHICUM HEIGHTS	NAICS Description: Entity State:	IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT
		_	IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY) MD
Entity City:	LINTHICUM HEIGHTS	Entity State:	IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY) MD
Entity City: Entity ZIP Code: Additional Reporting	LINTHICUM HEIGHTS	Entity State: Additional Reporting Code:	IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY) MD

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Contract ID:	0001	Reference IDV:	FA865008D7801
Modification Number:	5	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$517,548.00
Date Signed:	May 28, 2009	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:	AC22	PSC Description:	R&D-MISSILE & SPACE SYS-A RES/EXPL
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:	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:	CA
Entity ZIP Code:	902452804	Additional Reporting Code:	-
			movero created 4 ±1
Additional Reporting Description:	-	Unique Entity ID:	T9XKQSKMW4J1
	- NKVZLJL93QT6	Unique Entity ID: Ultimate Parent Legal Business Name:	NORTHROP GRUMMAN SYSTEMS CORPORATION

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Contract ID:	0001	Reference IDV:	FA865008D1447
Modification Number:	0	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$2,000,000.00
Date Signed:	Jul 31, 2008	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:	AC64	PSC Description:	R&D-ELECTRONICS & COMM EQ- ENG DEV
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:	PZQHGH183LA1	Ultimate Parent Legal Business Name:	NORTHROP GRUMMAN CORPORATION
Legal Business Name:	NORTHROP GRUMMAN SYSTEMS CORPORATION	CAGE Code:	-
Contract ID:	0001	Reference IDV:	FA875011D0001
Modification Number:	0	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$2,173,000.00
Date Signed:	Jan 25, 2011	Solicitation Date:	_
Contracting Agency ID:	5700	Contracting Agency:	DEPT OF THE AIR FORCE
Contracting Office Name:	FA8750 AFRL RIK	PSC Type:	S
PSC:	AD93	PSC Description:	OTHER DEFENSE (ADVANCED)
NAICS:	541712	NAICS Description:	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
Entity City:	HERNDON	Entity State:	VA
Entity ZIP Code:	201713415	Additional Reporting Code:	_
Additional Reporting Description:	-	Unique Entity ID:	ZXNGPY1BLG94
Ultimate Parent Unique Entity ID:	F9SDJAZFTLG6	Ultimate Parent Legal Business Name:	Huntington Ingalls Industries Inc.
Legal Business Name:	NORTHROP GRUMMAN SYSTEMS CORPORATION	CAGE Code:	-

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.	0001		=2.0E501120001
Contract ID:	0001	Reference IDV:	FA875011D0001
Modification Number:	22	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$0.00
Date Signed:	Jan 8, 2015	Solicitation Date:	-
Contracting Agency ID:	5700	Contracting Agency:	DEPT OF THE AIR FORCE
Contracting Office Name:	FA8750 AFRL RIK	PSC Type:	S
PSC:	AD93	PSC Description:	R&D- DEFENSE OTHER: OTHER (ADVANCED DEVELOPMENT)
NAICS:	541712	NAICS Description:	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
Entity City:	HERNDON	Entity State:	VA
Entity ZIP Code:	201713415	Additional Reporting Code:	_
Additional Reporting Description:	-	Unique Entity ID:	ZXNGPY1BLG94
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:	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	CAGE Code:	-

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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
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:	ENGINEERING, AND LIFE SCIENCES (EXCEPT
	EL SEGUNDO 902452804	Entity State: Additional Reporting Code:	ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY) CA
Entity ZIP Code: Additional Reporting		-	ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY) CA
Entity City: Entity ZIP Code: Additional Reporting Description: Ultimate Parent Unique Entity ID:		Additional Reporting Code:	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:	FA875011D0001
Modification Number:	1	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$543,086.00
Date Signed:	Mar 11, 2011	Solicitation Date:	-
Contracting Agency ID:	5700	Contracting Agency:	DEPT OF THE AIR FORCE
Contracting Office Name:	FA8750 AFRL RIK	PSC Type:	S
PSC:	AD93	PSC Description:	OTHER DEFENSE (ADVANCED)
NAICS:	541712	NAICS Description:	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
Entity City:	HERNDON	Entity State:	VA
Entity ZIP Code:	201713415	Additional Reporting Code:	_
Additional Reporting Description:	-	Unique Entity ID:	ZXNGPY1BLG94
Ultimate Parent Unique Entity ID:	F9SDJAZFTLG6	Ultimate Parent Legal Business Name:	Huntington Ingalls Industries Inc.
Legal Business Name:	NORTHROP GRUMMAN SYSTEMS CORPORATION	CAGE Code:	-

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Contract ID:	0001	Reference IDV:	FA875011D0001
Modification Number:	2	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$0.00
Date Signed:	Jan 3, 2012	Solicitation Date:	_
Contracting Agency ID:	5700	Contracting Agency:	DEPT OF THE AIR FORCE
Contracting Office Name:	FA8750 AFRL RIK	PSC Type:	s
PSC:	AD93	PSC Description:	R&D- DEFENSE OTHER: OTHER (ADVANCED DEVELOPMENT)
NAICS:	541712	NAICS Description:	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
Entity City:	HERNDON	Entity State:	VA
Entity ZIP Code:	201713415	Additional Reporting Code:	-
Additional Reporting Description:	-	Unique Entity ID:	ZXNGPY1BLG94
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:	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	CAGE Code:	-

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Contract ID:	0001	Reference IDV:	FA865112D0102
Modification Number:	3	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$0.00
Date Signed:	Nov 5, 2012	Solicitation Date:	_
Contracting Agency ID:	5700	Contracting Agency:	DEPT OF THE AIR FORCE
Contracting Office Name:	FA8651 AFRL RWK	PSC Type:	s
PSC:	AC52	PSC Description:	R&D- DEFENSE SYSTEM: WEAPONS (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT)
NAICS:	541712	NAICS Description:	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
Entity City:	HERNDON	Entity State:	VA
Entity ZIP Code:	201713415	Additional Reporting Code:	-
Additional Reporting Description:	-	Unique Entity ID:	ZXNGPY1BLG94
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:	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
		CAGE Code:	

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Contract ID:	0001	Reference IDV:	FA945112D0178
Modification Number:	2	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$0.00
Date Signed:	Sep 9, 2014	Solicitation Date:	-
Contracting Agency ID:	5700	Contracting Agency:	DEPT OF THE AIR FORCE
Contracting Office Name:	FA9451 AFRL RDK	PSC Type:	S
PSC:	AC52	PSC Description:	R&D- DEFENSE SYSTEM: WEAPONS (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 Business Name:	NORTHROP GRUMMAN CORPORATION
Legal Business Name:	NORTHROP GRUMMAN SYSTEMS CORPORATION	CAGE Code:	-
Contract ID:	0001	Reference IDV:	FA865009D3940
Modification Number:	0	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$5,000.00
Date Signed:	Apr 28, 2009	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:	AC12	PSC Description:	R&D-AIRCRAFT-A RES/EXPL DEV
NAICS:	541712	NAICS Description:	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
Entity City:	BETHPAGE	Entity State:	NY
Entity ZIP Code:	117145000	Additional Reporting Code:	-
Additional Reporting	-	Unique Entity ID:	PDKLLA6Q11N4
Description:			l
Description: Ultimate Parent Unique Entity ID:	PZQHGH183LA1	Ultimate Parent Legal Business Name:	NORTHROP GRUMMAN CORPORATION

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Contract ID:	0001	Reference IDV:	FA865008D7801
Modification Number:	3	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$696,764.00
Date Signed:	Feb 5, 2009	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:	AC22	PSC Description:	R&D-MISSILE & SPACE SYS-A RES/EXPL
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:	FA875011D0001
Modification Number:	5	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$355,000.00
Date Signed:	Mar 15, 2012	Solicitation Date:	_
Contracting Agency ID:	5700	Contracting Agency:	DEPT OF THE AIR FORCE
Contracting Office Name:	FA8750 AFRL RIK	PSC Type:	S
PSC:	AD93	PSC Description:	R&D- DEFENSE OTHER: OTHER (ADVANCED DEVELOPMENT)
NAICS:	541712	NAICS Description:	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
Entity City:	HERNDON	Entity State:	VA
Entity ZIP Code:	201713415	Additional Reporting Code:	_
Additional Reporting Description:	-	Unique Entity ID:	ZXNGPY1BLG94
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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Contract ID:	0001	Reference IDV:	FA865008D7801
Modification Number:	0	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$1,991,150.00
Date Signed:	Dec 3, 2007	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:	AC22	PSC Description:	R&D-MISSILE & SPACE SYS-A RES/EXPL
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:	FA865008D7801
Modification Number:	10	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$610,000.00
Date Signed:	Feb 1, 2010	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:	AC22	PSC Description:	R&D-MISSILE & SPACE SYS-A RES/EXPL
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
	PZQHGH183LA1	Ultimate Parent Legal	NORTHROP GRUMMAN
Ultimate Parent Unique Entity ID:	I Zgiidii I dakii	Business Name:	CORPORATION

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Contract ID:	0001	Reference IDV:	FA875011D0001
Modification Number:	10	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$342,707.00
Date Signed:	Jul 31, 2013	Solicitation Date:	-
Contracting Agency ID:	5700	Contracting Agency:	DEPT OF THE AIR FORCE
Contracting Office Name:	FA8750 AFRL RIK	PSC Type:	S
PSC:	AD93	PSC Description:	R&D- DEFENSE OTHER: OTHER (ADVANCED DEVELOPMENT)
NAICS:	541712	NAICS Description:	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
Entity City:	HERNDON	Entity State:	VA
Entity ZIP Code:	201713415	Additional Reporting Code:	-
Additional Reporting Description:	-	Unique Entity ID:	ZXNGPY1BLG94
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:	FA875011D0001
Modification Number:	11	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$5,000.00
Date Signed:	Aug 21, 2013	Solicitation Date:	-
Contracting Agency ID:	5700	Contracting Agency:	DEPT OF THE AIR FORCE
Contracting Office Name:	FA8750 AFRL RIK	PSC Type:	S
PSC:	AD93	PSC Description:	R&D- DEFENSE OTHER: OTHER (ADVANCED DEVELOPMENT)
NAICS:	541712	NAICS Description:	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
			·
Entity City:	HERNDON	Entity State:	VA
Entity City: Entity ZIP Code:	HERNDON 201713415	Entity State: Additional Reporting Code:	
Entity ZIP Code: Additional Reporting		Additional Reporting Code:	-

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Contract ID:	0001	Reference IDV:	FA865008D7801
Modification Number:	19	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$36,887.00
Date Signed:	Jan 27, 2012	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:	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:	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:	FA875011D0001
Modification Number:	21	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$173,546.00
Date Signed:	Sep 23, 2014	Solicitation Date:	_
Contracting Agency ID:	5700	Contracting Agency:	DEPT OF THE AIR FORCE
Contracting Office Name:	FA8750 AFRL RIK	PSC Type:	S
PSC:	AD93	PSC Description:	R&D- DEFENSE OTHER: OTHER (ADVANCED DEVELOPMENT)
NAICS:	541712	NAICS Description:	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
Entity City:	HERNDON	Entity State:	VA
Entity ZIP Code:	201713415	Additional Reporting Code:	-
Additional Reporting Description:	-	Unique Entity ID:	ZXNGPY1BLG94
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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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 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:	FA875011D0001
Modification Number:	3	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$150,000.00
Date Signed:	Jan 25, 2012	Solicitation Date:	_
Contracting Agency ID:	5700	Contracting Agency:	DEPT OF THE AIR FORCE
Contracting Office Name:	FA8750 AFRL RIK	PSC Type:	s
PSC:	AD93	PSC Description:	R&D- DEFENSE OTHER: OTHER (ADVANCED DEVELOPMENT)
NAICS:	541712	NAICS Description:	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
Entity City:	HERNDON	Entity State:	VA
Entity ZIP Code:	201713415	Additional Reporting Code:	-
Additional Reporting Description:	-	Unique Entity ID:	ZXNGPY1BLG94
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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Contract ID:	0001	Reference IDV:	FA875013D0134
Modification Number:	3	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$296,000.00
Date Signed:	Jun 27, 2013	Solicitation Date:	_
Contracting Agency ID:	5700	Contracting Agency:	DEPT OF THE AIR FORCE
Contracting Office Name:	FA8750 AFRL RIK	PSC Type:	S
PSC:	AD93	PSC Description:	R&D- DEFENSE OTHER: OTHER (ADVANCED DEVELOPMENT)
NAICS:	541712	NAICS Description:	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
Entity City:	HERNDON	Entity State:	VA
Entity ZIP Code:	201713415	Additional Reporting Code:	-
Additional Reporting Description:	-	Unique Entity ID:	ZXNGPY1BLG94
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:	FA865112D0102
Modification Number:	4	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$0.00
Date Signed:	Mar 12, 2013	Solicitation Date:	-
Contracting Agency ID:	5700	Contracting Agency:	DEPT OF THE AIR FORCE
Contracting Office Name:	FA8651 AFRL RWK	PSC Type:	S
PSC:	AC52	PSC Description:	R&D- DEFENSE SYSTEM: WEAPONS (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT)
NAICS:	541712	NAICS Description:	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
Entity City:	HERNDON	Entity State:	VA
Entity ZIP Code:	201713415	Additional Reporting Code:	-
Additional Reporting Description:	-	Unique Entity ID:	ZXNGPY1BLG94
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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Contract ID:	0001	Reference IDV:	FA875013D0091
Modification Number:	4	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$300,000.00
Date Signed:	May 3, 2013	Solicitation Date:	_
Contracting Agency ID:	5700	Contracting Agency:	DEPT OF THE AIR FORCE
Contracting Office Name:	FA8750 AFRL RIK	PSC Type:	S
PSC:	AD95	PSC Description:	R&D- DEFENSE OTHER: OTHER (OPERATIONAL SYSTEMS DEVELOPMENT)
NAICS:	541712	NAICS Description:	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
Entity City:	HERNDON	Entity State:	VA
Entity ZIP Code:	201713415	Additional Reporting Code:	-
Additional Reporting Description:	-	Unique Entity ID:	ZXNGPY1BLG94
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:	FA865008D7801
Modification Number:	8	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$100,000.00
Date Signed:	Nov 13, 2009	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:	AC22	PSC Description:	R&D-MISSILE & SPACE SYS-A RES/EXPL
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	CAGE Code:	_

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Contract ID:	0001	Reference IDV:	W31P4Q12D0069
Modification Number:	0	Transaction Number:	1
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$524,584.00
Date Signed:	Sep 28, 2012	Solicitation Date:	_
Contracting Agency ID:	2100	Contracting Agency:	DEPT OF THE ARMY
Contracting Office Name:	W6QK ACC-RSA	PSC Type:	S
PSC:	AC24	PSC Description:	R&D- DEFENSE SYSTEM: MISSILE/SPACE SYSTEMS (ENGINEERING DEVELOPMENT)
NAICS:	541712	NAICS Description:	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
Entity City:	HERNDON	Entity State:	VA
Entity ZIP Code:	201713415	Additional Reporting Code:	-
Additional Reporting Description:	-	Unique Entity ID:	ZXNGPY1BLG94
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:	FA945112D0178
Modification Number:	0	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$738,679.00
Date Signed:	Jun 18, 2012	Solicitation Date:	-
Contracting Agency ID:	5700	Contracting Agency:	DEPT OF THE AIR FORCE
Contracting Office Name:	FA9451 AFRL RDK	PSC Type:	S
PSC:	AC52	PSC Description:	R&D- DEFENSE SYSTEM: WEAPONS (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 Business Name:	NORTHROP GRUMMAN CORPORATION

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Contract ID:	0001	Reference IDV:	FA875013D0134
Modification Number:	12	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$250,000.00
Date Signed:	Jun 26, 2014	Solicitation Date:	_
Contracting Agency ID:	5700	Contracting Agency:	DEPT OF THE AIR FORCE
Contracting Office Name:	FA8750 AFRL RIK	PSC Type:	S
PSC:	AD93	PSC Description:	R&D- DEFENSE OTHER: OTHER (ADVANCED DEVELOPMENT)
NAICS:	541712	NAICS Description:	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
Entity City:	HERNDON	Entity State:	VA
Entity ZIP Code:	201713415	Additional Reporting Code:	_
Additional Reporting Description:	-	Unique Entity ID:	ZXNGPY1BLG94
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:	FA875011D0001
Modification Number:	16	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$700,000.00
Date Signed:	May 6, 2014	Solicitation Date:	-
Contracting Agency ID:	5700	Contracting Agency:	DEPT OF THE AIR FORCE
Contracting Office Name:	FA8750 AFRL RIK	PSC Type:	S
PSC:	AD93	PSC Description:	R&D- DEFENSE OTHER: OTHER (ADVANCED DEVELOPMENT)
NAICS:	541712	NAICS Description:	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
Entity City:	HERNDON	Entity State:	VA
Entity ZIP Code:	201713415	Additional Reporting Code:	-
	201713415	Additional Reporting Code: Unique Entity ID:	ZXNGPY1BLG94
Entity ZIP Code: Additional Reporting	201713415 - NKVZLJL93QT6		

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Contract ID:	0001	Reference IDV:	FA875013D0134
Modification Number:	2	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$224,300.00
Date Signed:	Jun 20, 2013	Solicitation Date:	-
Contracting Agency ID:	5700	Contracting Agency:	DEPT OF THE AIR FORCE
Contracting Office Name:	FA8750 AFRL RIK	PSC Type:	S
PSC:	AD93	PSC Description:	R&D- DEFENSE OTHER: OTHER (ADVANCED DEVELOPMENT)
NAICS:	541712	NAICS Description:	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
Entity City:	HERNDON	Entity State:	VA
Entity ZIP Code:	201713415	Additional Reporting Code:	-
Additional Reporting Description:	-	Unique Entity ID:	ZXNGPY1BLG94
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:	FA945112D0178
Modification Number:	3	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	-\$7,989.00
Date Signed:	Dec 12, 2014	Solicitation Date:	-
Contracting Agency ID:	5700	Contracting Agency:	DEPT OF THE AIR FORCE
Contracting Office Name:	FA9451 AFRL RDK	PSC Type:	S
PSC:	AC52	PSC Description:	R&D- DEFENSE SYSTEM: WEAPONS (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 Business Name:	NORTHROP GRUMMAN CORPORATION
Legal Business Name:	NORTHROP GRUMMAN SYSTEMS CORPORATION	CAGE Code:	-

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Contract The	0001	Deference TDV	FA865008D7801
Contract ID:	0001	Reference IDV:	
Modification Number:	4	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$657,636.00
Date Signed:	Apr 1, 2009	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:	AC22	PSC Description:	R&D-MISSILE & SPACE SYS-A RES/EXPL
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:	FA875013D0091
Modification Number:	6	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$250,000.00
Date Signed:	May 31, 2013	Solicitation Date:	-
Contracting Agency ID:	5700	Contracting Agency:	DEPT OF THE AIR FORCE
Contracting Office Name:	FA8750 AFRL RIK	PSC Type:	S
PSC:	AD95	PSC Description:	R&D- DEFENSE OTHER: OTHER (OPERATIONAL SYSTEMS DEVELOPMENT)
NAICS:	541712	NAICS Description:	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE
			SCIENCES (EXCEPT BIOTECHNOLOGY)
Entity City:	HERNDON	Entity State:	
	HERNDON 201713415	Entity State: Additional Reporting Code:	BIOTECHNOLOGY) VA
Entity ZIP Code: Additional Reporting			BIOTECHNOLOGY) VA
Entity City: Entity ZIP Code: Additional Reporting Description: Ultimate Parent Unique Entity ID:		Additional Reporting Code:	BIOTECHNOLOGY) VA

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Contract ID:	0001	Reference IDV:	FA875011D0001
Modification Number:	9	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$7,300.00
Date Signed:	Mar 12, 2013	Solicitation Date:	-
Contracting Agency ID:	5700	Contracting Agency:	DEPT OF THE AIR FORCE
Contracting Office Name:	FA8750 AFRL RIK	PSC Type:	S
PSC:	AD93	PSC Description:	R&D- DEFENSE OTHER: OTHER (ADVANCED DEVELOPMENT)
NAICS:	541712	NAICS Description:	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
Entity City:	HERNDON	Entity State:	VA
Entity ZIP Code:	201713415	Additional Reporting Code:	-
Additional Reporting Description:	-	Unique Entity ID:	ZXNGPY1BLG94
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:	FA875013D0134
Modification Number:	14	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$722,082.00
Date Signed:	Sep 15, 2014	Solicitation Date:	_
Contracting Agency ID:	5700	Contracting Agency:	DEPT OF THE AIR FORCE
Contracting Office Name:	FA8750 AFRL RIK	PSC Type:	S
PSC:	AD93	PSC Description:	R&D- DEFENSE OTHER: OTHER (ADVANCED DEVELOPMENT)
NAICS:	541712	NAICS Description:	RESEARCH AND DEVELOPMENT IN THE PHYSICAL,
			ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
Entity City:	HERNDON	Entity State:	ENGINEERING, AND LIFE SCIENCES (EXCEPT
Entity City: Entity ZIP Code:	HERNDON 201713415	Entity State: Additional Reporting Code:	ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
		_	ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
Entity ZIP Code: Additional Reporting		Additional Reporting Code:	ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY) VA

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Contract ID:	0001	Reference IDV:	FA875013D0134
Modification Number:	16	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	-\$1,005,000.00
Date Signed:	Mar 4, 2015	Solicitation Date:	_
Contracting Agency ID:	5700	Contracting Agency:	DEPT OF THE AIR FORCE
Contracting Office Name:	FA8750 AFRL RIK	PSC Type:	s
PSC:	AD93	PSC Description:	R&D- DEFENSE OTHER: OTHER (ADVANCED DEVELOPMENT)
NAICS:	541712	NAICS Description:	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
Entity City:	HERNDON	Entity State:	VA
Entity ZIP Code:	201713415	Additional Reporting Code:	_
Additional Reporting Description:	-	Unique Entity ID:	ZXNGPY1BLG94
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:	FA875011D0001
Modification Number:	19	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$242,000.00
Date Signed:	Aug 28, 2014	Solicitation Date:	_
Contracting Agency ID:	5700	Contracting Agency:	DEPT OF THE AIR FORCE
Contracting Office Name:	FA8750 AFRL RIK	PSC Type:	S
PSC:	AD93	PSC Description:	R&D- DEFENSE OTHER: OTHER (ADVANCED DEVELOPMENT)
NAICS:	541712	NAICS Description:	RESEARCH AND DEVELOPMENT IN THE PHYSICAL,
			ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
Entity City:	HERNDON	Entity State:	SCIENCES (EXCEPT
Entity City: Entity ZIP Code:	HERNDON 201713415	Entity State: Additional Reporting Code:	SCIENCES (EXCEPT BIOTECHNOLOGY)
			SCIENCES (EXCEPT BIOTECHNOLOGY) VA
Entity ZIP Code: Additional Reporting		Additional Reporting Code:	SCIENCES (EXCEPT BIOTECHNOLOGY) VA

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Contract ID:	0001	Reference IDV:	FA875011D0001
Modification Number:	20	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$23,500.00
Date Signed:	Sep 11, 2014	Solicitation Date:	_
Contracting Agency ID:	5700	Contracting Agency:	DEPT OF THE AIR FORCE
Contracting Office Name:	FA8750 AFRL RIK	PSC Type:	S
PSC:	AD93	PSC Description:	R&D- DEFENSE OTHER: OTHER (ADVANCED DEVELOPMENT)
NAICS:	541712	NAICS Description:	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
Entity City:	HERNDON	Entity State:	VA
Entity ZIP Code:	201713415	Additional Reporting Code:	-
Additional Reporting Description:	-	Unique Entity ID:	ZXNGPY1BLG94
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:	FA875013D0134
Modification Number:	7	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$69,500.00
Date Signed:	Dec 4, 2013	Solicitation Date:	_
Contracting Agency ID:	5700	Contracting Agency:	DEPT OF THE AIR FORCE
Contracting Office Name:	FA8750 AFRL RIK	PSC Type:	S
PSC:	AD93	PSC Description:	R&D- DEFENSE OTHER: OTHER (ADVANCED DEVELOPMENT)
NAICS:	541712	NAICS Description:	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
			BIOTECHNOLOGI)
Entity City:	HERNDON	Entity State:	VA
Entity City: Entity ZIP Code:	HERNDON 201713415	Entity State: Additional Reporting Code:	,
			VA
Entity ZIP Code: Additional Reporting		Additional Reporting Code:	VA

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Contract ID:	0001	Reference IDV:	FA875013D0134
Modification Number:	9	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	-\$26,018.00
Date Signed:	Mar 24, 2014	Solicitation Date:	-
Contracting Agency ID:	5700	Contracting Agency:	DEPT OF THE AIR FORCE
Contracting Office Name:	FA8750 AFRL RIK	PSC Type:	s
PSC:	AD93	PSC Description:	R&D- DEFENSE OTHER: OTHER (ADVANCED DEVELOPMENT)
NAICS:	541712	NAICS Description:	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
Entity City:	HERNDON	Entity State:	VA
Entity ZIP Code:	201713415	Additional Reporting Code:	_
Additional Reporting Description:	-	Unique Entity ID:	ZXNGPY1BLG94
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:	FA865112D0102
Modification Number:	0	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$300,000.00
Date Signed:	Dec 5, 2011	Solicitation Date:	-
Contracting Agency ID:	5700	Contracting Agency:	DEPT OF THE AIR FORCE
Contracting Office Name:	FA8651 AFRL RWK	PSC Type:	S
PSC:	AC52	PSC Description:	R&D- DEFENSE SYSTEM: WEAPONS (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT)
NAICS:	541712	NAICS Description:	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
Entity City:	HERNDON	Entity State:	VA
Entity ZIP Code:	201713415	Additional Reporting Code:	-
Additional Reporting Description:	-	Unique Entity ID:	ZXNGPY1BLG94
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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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 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:	FA875013D0134
Modification Number:	10	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$136,000.00
Date Signed:	Apr 17, 2014	Solicitation Date:	-
Contracting Agency ID:	5700	Contracting Agency:	DEPT OF THE AIR FORCE
Contracting Office Name:	FA8750 AFRL RIK	PSC Type:	S
PSC:	AD93	PSC Description:	R&D- DEFENSE OTHER: OTHER (ADVANCED DEVELOPMENT)
NAICS:	541712	NAICS Description:	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
Entity City:	HERNDON	Entity State:	VA
Entity ZIP Code:	201713415	Additional Reporting Code:	-
Additional Reporting Description:	-	Unique Entity ID:	ZXNGPY1BLG94
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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Contract ID:	0001	Reference IDV:	FA875013D0134
Modification Number:	11	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$46,344.00
Date Signed:	Apr 23, 2014	Solicitation Date:	-
Contracting Agency ID:	5700	Contracting Agency:	DEPT OF THE AIR FORCE
Contracting Office Name:	FA8750 AFRL RIK	PSC Type:	S
PSC:	AD93	PSC Description:	R&D- DEFENSE OTHER: OTHER (ADVANCED DEVELOPMENT)
NAICS:	541712	NAICS Description:	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
Entity City:	HERNDON	Entity State:	VA
Entity ZIP Code:	201713415	Additional Reporting Code:	_
Additional Reporting Description:	-	Unique Entity ID:	ZXNGPY1BLG94
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:	FA875011D0001
Modification Number:	15	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$310,000.00
Date Signed:	May 1, 2014	Solicitation Date:	-
Contracting Agency ID:	5700	Contracting Agency:	DEPT OF THE AIR FORCE
Contracting Office Name:	FA8750 AFRL RIK	PSC Type:	S
PSC:	AD93	PSC Description:	R&D- DEFENSE OTHER: OTHER (ADVANCED DEVELOPMENT)
NAICS:	541712	NAICS Description:	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
Entity City:	HERNDON	Entity State:	VA
THOTO, CICI.	HERNDON		
Entity ZIP Code:	201713415	Additional Reporting Code:	-
		Additional Reporting Code: Unique Entity ID:	ZXNGPY1BLG94
Entity ZIP Code: Additional Reporting			

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Contract ID:	0001	Reference IDV:	FA875013D0134
Modification Number:	15	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$60,000.00
Date Signed:	Sep 22, 2014	Solicitation Date:	-
Contracting Agency ID:	5700	Contracting Agency:	DEPT OF THE AIR FORCE
Contracting Office Name:	FA8750 AFRL RIK	PSC Type:	S
PSC:	AD93	PSC Description:	R&D- DEFENSE OTHER: OTHER (ADVANCED DEVELOPMENT)
NAICS:	541712	NAICS Description:	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
Entity City:	HERNDON	Entity State:	VA
Entity ZIP Code:	201713415	Additional Reporting Code:	-
Additional Reporting Description:	-	Unique Entity ID:	ZXNGPY1BLG94
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:	FA945113D0258
Modification Number:	1	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$4,705.00
Date Signed:	Jan 29, 2013	Solicitation Date:	-
Contracting Agency ID:	5700	Contracting Agency:	DEPT OF THE AIR FORCE
Contracting Office Name:	FA9451 AFRL RDK	PSC Type:	S
PSC:	AC52	PSC Description:	R&D- DEFENSE SYSTEM: WEAPONS (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:	90278	Additional Reporting Code:	-
Additional Reporting Description:	-	Unique Entity ID:	WL6XPAJVBK83
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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Contract ID:	0001	Reference IDV:	FA865008D1447
Modification Number:	2	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$0.00
Date Signed:	Nov 30, 2009	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:	AC64	PSC Description:	R&D-ELECTRONICS & COMM EQENG DEV
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:	PZQHGH183LA1	Ultimate Parent Legal Business Name:	NORTHROP GRUMMAN CORPORATION
Legal Business Name:	NORTHROP GRUMMAN SYSTEMS CORPORATION	CAGE Code:	-
Contract ID:	0001	Reference IDV:	FA865009D3940
Modification Number:	2	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$225,570.00
Date Signed:	Sep 17, 2009	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:	AC12	PSC Description:	R&D-AIRCRAFT-A RES/EXPL DEV
NAICS:	541712	NAICS Description:	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
Entity City:	BETHPAGE	Entity State:	NY
Entity City: Entity ZIP Code:	BETHPAGE 117145000	Entity State: Additional Reporting Code:	
Entity ZIP Code: Additional Reporting		-	
Entity ZIP Code:		Additional Reporting Code:	-

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Contract ID:	0001	Reference IDV:	FA865009D3940
Modification Number:	3	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$0.00
Date Signed:	Aug 8, 2011	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:	AC12	PSC Description:	R&D-AIRCRAFT-A RES/EXPL DEV
NAICS:	541712	NAICS Description:	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
Entity City:	BETHPAGE	Entity State:	NY
Entity ZIP Code:	117145000	Additional Reporting Code:	-
Additional Reporting Description:	-	Unique Entity ID:	PDKLLA6Q11N4
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:	FA945113D0258
Modification Number:	4	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$0.00
Date Signed:	Jan 15, 2014	Solicitation Date:	_
Contracting Agency ID:	5700	Contracting Agency:	DEPT OF THE AIR FORCE
Contracting Office Name:	FA9451 AFRL RDK	PSC Type:	S
PSC:	AC52	PSC Description:	R&D- DEFENSE SYSTEM: WEAPONS (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:	90278	Additional Reporting Code:	_
Additional Reporting Description:	-	Unique Entity ID:	WL6XPAJVBK83
Ultimate Parent Unique Entity ID:	NKVZLJL93QT6	Ultimate Parent Legal Business Name:	NORTHROP GRUMMAN CORPORATION

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Contract ID:	0001	Reference IDV:	FA875013D0091
Modification Number:	5	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$95,000.00
Date Signed:	May 17, 2013	Solicitation Date:	-
Contracting Agency ID:	5700	Contracting Agency:	DEPT OF THE AIR FORCE
Contracting Office Name:	FA8750 AFRL RIK	PSC Type:	S
PSC:	AD95	PSC Description:	R&D- DEFENSE OTHER: OTHER (OPERATIONAL SYSTEMS DEVELOPMENT)
NAICS:	541712	NAICS Description:	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
Entity City:	HERNDON	Entity State:	VA
Entity ZIP Code:	201713415	Additional Reporting Code:	-
Additional Reporting Description:	-	Unique Entity ID:	ZXNGPY1BLG94
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:	FA945113D0258
Modification Number:	0	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$355,000.00
Date Signed:	Jan 17, 2013	Solicitation Date:	-
Contracting Agency ID:	5700	Contracting Agency:	DEPT OF THE AIR FORCE
Contracting Office Name:	FA9451 AFRL RDK	PSC Type:	S
PSC:	AC52	PSC Description:	R&D- DEFENSE SYSTEM: WEAPONS (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT)
		NAICS Description:	RESEARCH AND DEVELOPMENT
NAICS:	541712	MILES DEBUT POTON	IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
NAICS: Entity City:	REDONDO BEACH	Entity State:	IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT
			IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
Entity City: Entity ZIP Code: Additional Reporting	REDONDO BEACH	Entity State:	IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
Entity City:	REDONDO BEACH 90278	Entity State: Additional Reporting Code:	IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY) CA

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Contract ID:	0001	Reference IDV:	FA875011D0001
Modification Number:	14	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$9,100.00
Date Signed:	Mar 5, 2014	Solicitation Date:	-
Contracting Agency ID:	5700	Contracting Agency:	DEPT OF THE AIR FORCE
Contracting Office Name:	FA8750 AFRL RIK	PSC Type:	S
PSC:	AD93	PSC Description:	R&D- DEFENSE OTHER: OTHER (ADVANCED DEVELOPMENT)
NAICS:	541712	NAICS Description:	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
Entity City:	HERNDON	Entity State:	VA
Entity ZIP Code:	201713415	Additional Reporting Code:	-
Additional Reporting Description:	-	Unique Entity ID:	ZXNGPY1BLG94
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:	FA865112D0102
Modification Number:	1A	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	-\$5,949.32
Date Signed:	Sep 13, 2017	Solicitation Date:	-
Contracting Agency ID:	9763	Contracting Agency:	DEFENSE CONTRACT MANAGEMENT AGENCY (DCMA)
Contracting Office Name:	DCMA SOUTHEAST (HAMPTON)	PSC Type:	S
PSC:	AC52	PSC Description:	R&D- DEFENSE SYSTEM: WEAPONS (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT)
NAICS:	541712	NAICS Description:	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
Entity City:	HERNDON	Entity State:	VA
Entity ZIP Code:	201713415	Additional Reporting Code:	-
Additional Reporting Description:	-	Unique Entity ID:	ZXNGPY1BLG94
Ultimate Parent Unique Entity ID:	NKVZLJL93QT6	Ultimate Parent Legal Business Name:	NORTHROP GRUMMAN CORPORATION
Legal Business Name:	NORTHROP GRUMMAN SYSTEMS CORPORATION	CAGE Code:	5V1X2

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Contract ID:	0001	Reference IDV:	FA875013D0134
Modification Number:	5	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$247,623.00
Date Signed:	Sep 30, 2013	Solicitation Date:	_
Contracting Agency ID:	5700	Contracting Agency:	DEPT OF THE AIR FORCE
Contracting Office Name:	FA8750 AFRL RIK	PSC Type:	s
PSC:	AD93	PSC Description:	R&D- DEFENSE OTHER: OTHER (ADVANCED DEVELOPMENT)
NAICS:	541712	NAICS Description:	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
Entity City:	HERNDON	Entity State:	VA
Entity ZIP Code:	201713415	Additional Reporting Code:	_
Additional Reporting Description:	-	Unique Entity ID:	ZXNGPY1BLG94
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:	FA875011D0001
Modification Number:	8	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$300,000.00
Date Signed:	Feb 25, 2013	Solicitation Date:	-
Contracting Agency ID:	5700	Contracting Agency:	DEPT OF THE AIR FORCE
Contracting Office Name:	FA8750 AFRL RIK	PSC Type:	S
PSC:	AD93	PSC Description:	R&D- DEFENSE OTHER: OTHER (ADVANCED DEVELOPMENT)
NAICS:	541712	NAICS Description:	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
Entity City:	HERNDON	Entity State:	VA
Entity City: Entity ZIP Code:	HERNDON 201713415	Entity State: Additional Reporting Code:	VA -
Entity ZIP Code: Additional Reporting		Additional Reporting Code:	-

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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:	W6OK ACC-APG	PSC Type:	S 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:	FA875013D0091
Modification Number:	0	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$400,000.00
Date Signed:	Dec 7, 2012	Solicitation Date:	_
Contracting Agency ID:	5700	Contracting Agency:	DEPT OF THE AIR FORCE
Contracting Office Name:	FA8750 AFRL RIK	PSC Type:	S
PSC:	AD95	PSC Description:	R&D- DEFENSE OTHER: OTHER (OPERATIONAL SYSTEMS DEVELOPMENT)
			DEVELOT MENT /
NAICS:	541712	NAICS Description:	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
NAICS: Entity City:	541712 HERNDON	NAICS Description: Entity State:	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT
			RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY) VA
Entity City:	HERNDON	Entity State:	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY) VA
Entity City: Entity ZIP Code: Additional Reporting	HERNDON	Entity State: Additional Reporting Code:	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY) VA

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Contract ID:	0001	Reference IDV:	FA875013D0134
Modification Number:	13	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$0.00
Date Signed:	Aug 15, 2014	Solicitation Date:	-
Contracting Agency ID:	5700	Contracting Agency:	DEPT OF THE AIR FORCE
Contracting Office Name:	FA8750 AFRL RIK	PSC Type:	S
PSC:	AD93	PSC Description:	R&D- DEFENSE OTHER: OTHER (ADVANCED DEVELOPMENT)
NAICS:	541712	NAICS Description:	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
Entity City:	HERNDON	Entity State:	VA
Entity ZIP Code:	201713415	Additional Reporting Code:	_
Additional Reporting Description:	-	Unique Entity ID:	ZXNGPY1BLG94
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:	FA865008D7801
Modification Number:	17	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$14,000.00
Date Signed:	Nov 3, 2011	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:	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:	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:	-

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Contract ID:	0001	Reference IDV:	FA875011D0001
Modification Number:	17	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$30,000.00
Date Signed:	Jul 1, 2014	Solicitation Date:	_
Contracting Agency ID:	5700	Contracting Agency:	DEPT OF THE AIR FORCE
Contracting Office Name:	FA8750 AFRL RIK	PSC Type:	s
PSC:	AD93	PSC Description:	R&D- DEFENSE OTHER: OTHER (ADVANCED DEVELOPMENT)
NAICS:	541712	NAICS Description:	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
Entity City:	HERNDON	Entity State:	VA
Entity ZIP Code:	201713415	Additional Reporting Code:	-
Additional Reporting Description:	-	Unique Entity ID:	ZXNGPY1BLG94
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:	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

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Contract ID:	0001	Reference IDV:	FA865009D3940
Modification Number:	1	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$153,144.00
Date Signed:	May 14, 2009	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:	AC12	PSC Description:	R&D-AIRCRAFT-A RES/EXPL DEV
NAICS:	541712	NAICS Description:	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
Entity City:	BETHPAGE	Entity State:	NY
Entity ZIP Code:	117145000	Additional Reporting Code:	-
Additional Reporting Description:	-	Unique Entity ID:	PDKLLA6Q11N4
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:	FA875013D0134
Modification Number:	1	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$45,697.00
Date Signed:	May 29, 2013	Solicitation Date:	_
Contracting Agency ID:	5700	Contracting Agency:	DEPT OF THE AIR FORCE
Contracting Office Name:	FA8750 AFRL RIK	PSC Type:	S
PSC:	AD93	PSC Description:	R&D- DEFENSE OTHER: OTHER (ADVANCED DEVELOPMENT)
NAICS:	541712	NAICS Description:	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
Entity City:	HERNDON	Entity State:	VA
Entity ZIP Code:	201713415	Additional Reporting Code:	-
Additional Reporting Description:	-	Unique Entity ID:	ZXNGPY1BLG94
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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Contract ID:	0001	Reference IDV:	FA865116D0313
Modification Number:	1A	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	-\$4,999.45
Date Signed:	Sep 23, 2022	Solicitation Date:	-
Contracting Agency ID:	9763	Contracting Agency:	DEFENSE CONTRACT MANAGEMENT AGENCY (DCMA)
Contracting Office Name:	DCMA SPACE ENTERPRISE (EL SEGUNDO)	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:	FA865112D0102
Modification Number:	2	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$0.00
Date Signed:	Sep 26, 2012	Solicitation Date:	-
Contracting Agency ID:	5700	Contracting Agency:	DEPT OF THE AIR FORCE
Contracting Office Name:	FA8651 AFRL RWK	PSC Type:	S
PSC:	AC52	PSC Description:	R&D- DEFENSE SYSTEM:
ruc.		The Bobbing Close	WEAPONS (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT)
NAICS:	541712	NAICS Description:	RESEARCH/EXPLORATORY
NAICS:	541712 HERNDON	-	RESEARCH/EXPLORATORY DEVELOPMENT) RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT
NAICS: Entity City:		NAICS Description:	RESEARCH/EXPLORATORY DEVELOPMENT) RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
NAICS: Entity City: Entity ZIP Code: Additional Reporting	HERNDON	NAICS Description: Entity State:	RESEARCH/EXPLORATORY DEVELOPMENT) RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY) VA
	HERNDON	NAICS Description: Entity State: Additional Reporting Code:	RESEARCH/EXPLORATORY DEVELOPMENT) RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY) VA

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Contract ID:	0001	Reference IDV:	FA865008D1447
Modification Number:	3	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$0.00
Date Signed:	May 5, 2010	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:	AC64	PSC Description:	R&D-ELECTRONICS & COMM EQ- ENG DEV
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:	PZQHGH183LA1	Ultimate Parent Legal Business Name:	NORTHROP GRUMMAN CORPORATION
Legal Business Name:	NORTHROP GRUMMAN SYSTEMS CORPORATION	CAGE Code:	-
Contract ID:	0001	Reference IDV:	FA875011D0001
Modification Number:	4	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$350,000.00
Date Signed:	Feb 28, 2012	Solicitation Date:	_
Contracting Agency ID:	5700	Contracting Agency:	DEPT OF THE AIR FORCE
Contracting Office Name:	FA8750 AFRL RIK	PSC Type:	S
PSC:	AD93	PSC Description:	R&D- DEFENSE OTHER: OTHER (ADVANCED DEVELOPMENT)
NAICS:	541712	NAICS Description:	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
Entity City:	HERNDON	Entity State:	VA
Entity ZIP Code:	201713415	Additional Reporting Code:	-
Additional Reporting Description:	-	Unique Entity ID:	ZXNGPY1BLG94
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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Contract ID:	0001	Reference IDV:	FA875013D0134
Modification Number:	4	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$33,660.00
Date Signed:	Jul 15, 2013	Solicitation Date:	-
Contracting Agency ID:	5700	Contracting Agency:	DEPT OF THE AIR FORCE
Contracting Office Name:	FA8750 AFRL RIK	PSC Type:	S
PSC:	AD93	PSC Description:	R&D- DEFENSE OTHER: OTHER (ADVANCED DEVELOPMENT)
NAICS:	541712	NAICS Description:	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
Entity City:	HERNDON	Entity State:	VA
Entity ZIP Code:	201713415	Additional Reporting Code:	-
Additional Reporting Description:	-	Unique Entity ID:	ZXNGPY1BLG94
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:	FA945113D0258
Modification Number:	5	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$0.00
Date Signed:	Feb 13, 2014	Solicitation Date:	_
Contracting Agency ID:	5700	Contracting Agency:	DEPT OF THE AIR FORCE
Contracting Office Name:	FA9451 AFRL RDK	PSC Type:	S
PSC:	AC52	PSC Description:	R&D- DEFENSE SYSTEM: WEAPONS (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:	90278	Additional Reporting Code:	-
Additional Reporting Description:	-	Unique Entity ID:	WL6XPAJVBK83
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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Contract ID:	0001	Reference IDV:	FA875013D0134
Modification Number:	6	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$683,930.00
Date Signed:	Nov 12, 2013	Solicitation Date:	_
Contracting Agency ID:	5700	Contracting Agency:	DEPT OF THE AIR FORCE
Contracting Office Name:	FA8750 AFRL RIK	PSC Type:	S
PSC:	AD93	PSC Description:	R&D- DEFENSE OTHER: OTHER (ADVANCED DEVELOPMENT)
NAICS:	541712	NAICS Description:	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
Entity City:	HERNDON	Entity State:	VA
Entity ZIP Code:	201713415	Additional Reporting Code:	-
Additional Reporting Description:	-	Unique Entity ID:	ZXNGPY1BLG94
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:	FA865008D7801
Modification Number:	7	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$25,000.00
Date Signed:	Nov 4, 2009	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:	AC22	PSC Description:	R&D-MISSILE & SPACE SYS-A RES/EXPL
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
		CAGE Code:	_

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Contract ID:	0001	Reference IDV:	FA875011D0001
Modification Number:	7	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$1,700.00
Date Signed:	Aug 7, 2012	Solicitation Date:	-
Contracting Agency ID:	5700	Contracting Agency:	DEPT OF THE AIR FORCE
Contracting Office Name:	FA8750 AFRL RIK	PSC Type:	S
PSC:	AD93	PSC Description:	R&D- DEFENSE OTHER: OTHER (ADVANCED DEVELOPMENT)
NAICS:	541712	NAICS Description:	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
Entity City:	HERNDON	Entity State:	VA
Entity ZIP Code:	201713415	Additional Reporting Code:	-
Additional Reporting Description:	-	Unique Entity ID:	ZXNGPY1BLG94
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:	FA875013D0134
Modification Number:	8	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$250,000.00
Date Signed:	Mar 4, 2014	Solicitation Date:	-
Contracting Agency ID:	5700	Contracting Agency:	DEPT OF THE AIR FORCE
Contracting Office Name:	FA8750 AFRL RIK	PSC Type:	S
PSC:	AD93	PSC Description:	R&D- DEFENSE OTHER: OTHER (ADVANCED DEVELOPMENT)
NAICS:	541712	NAICS Description:	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
Entity City:	HERNDON	Entity State:	VA
	HERITORY		
Entity ZIP Code:	201713415	Additional Reporting Code:	_
		Additional Reporting Code: Unique Entity ID:	- ZXNGPY1BLG94
Entity ZIP Code: Additional Reporting			

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Contract ID:	0001	Reference IDV:	FA875011D0001
Modification Number:	12	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$0.00
Date Signed:	Sep 27, 2013	Solicitation Date:	_
Contracting Agency ID:	5700	Contracting Agency:	DEPT OF THE AIR FORCE
Contracting Office Name:	FA8750 AFRL RIK	PSC Type:	S
PSC:	AD93	PSC Description:	R&D- DEFENSE OTHER: OTHER (ADVANCED DEVELOPMENT)
NAICS:	541712	NAICS Description:	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
Entity City:	HERNDON	Entity State:	VA
Entity ZIP Code:	201713415	Additional Reporting Code:	-
Additional Reporting Description:	-	Unique Entity ID:	ZXNGPY1BLG94
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:	FA875011D0001
Modification Number:	13	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$489,983.00
Date Signed:	Feb 27, 2014	Solicitation Date:	_
Contracting Agency ID:	5700	Contracting Agency:	DEPT OF THE AIR FORCE
Contracting Office Name:	FA8750 AFRL RIK	PSC Type:	S
PSC:	AD93	PSC Description:	R&D- DEFENSE OTHER: OTHER (ADVANCED DEVELOPMENT)
NAICS:	541712	NAICS Description:	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE
			SCIENCES (EXCEPT BIOTECHNOLOGY)
Entity City:	HERNDON	Entity State:	SCIENCES (EXCEPT
Entity City: Entity ZIP Code:	HERNDON 201713415	Entity State: Additional Reporting Code:	SCIENCES (EXCEPT BIOTECHNOLOGY)
			SCIENCES (EXCEPT BIOTECHNOLOGY) VA
Entity ZIP Code: Additional Reporting		Additional Reporting Code:	SCIENCES (EXCEPT BIOTECHNOLOGY) VA

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Contract ID:	0001	Reference IDV:	FA875013D0134
Modification Number:	17	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$0.00
Date Signed:	Apr 1, 2015	Solicitation Date:	-
Contracting Agency ID:	5700	Contracting Agency:	DEPT OF THE AIR FORCE
Contracting Office Name:	FA8750 AFRL RIK	PSC Type:	s
PSC:	AD93	PSC Description:	R&D- DEFENSE OTHER: OTHER (ADVANCED DEVELOPMENT)
NAICS:	541712	NAICS Description:	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
Entity City:	HERNDON	Entity State:	VA
Entity ZIP Code:	201713415	Additional Reporting Code:	_
Additional Reporting Description:	-	Unique Entity ID:	ZXNGPY1BLG94
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:	FA865008D7801
Modification Number:	18	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$60,000.00
Date Signed:	Nov 29, 2011	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:	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:	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:	-

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Contract ID:	0001	Reference IDV:	FA865008D1447
Modification Number:	1A	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	-\$3,810.00
Date Signed:	Aug 13, 2015	Solicitation Date:	_
Contracting Agency ID:	9763	Contracting Agency:	DEFENSE CONTRACT MANAGEMENT AGENCY (DCMA)
Contracting Office Name:	DCMA RADARS AND SENSORS	PSC Type:	S
PSC:	AC64	PSC Description:	R&D- DEFENSE SYSTEM: ELECTRONICS/COMMUNICATION EQUIPMENT (ENGINEERING DEVELOPMENT)
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:	FA865009D3940
Modification Number:	1A	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	-\$82.83
Date Signed:	Aug 27, 2014	Solicitation Date:	-
Contracting Agency ID:			
	9763	Contracting Agency:	DEFENSE CONTRACT MANAGEMENT AGENCY (DCMA)
Contracting Office Name:	9763 DCMA NG BETHPAGE	Contracting Agency: PSC Type:	
Contracting Office Name: PSC:			MANAGEMENT AGENCY (DCMA)
	DCMA NG BETHPAGE	PSC Type:	MANAGEMENT AGENCY (DCMA) S R&D- DEFENSE SYSTEM: AIRCRAFT (APPLIED RESEARCH/EXPLORATORY
PSC:	DCMA NG BETHPAGE AC12	PSC Type: PSC Description:	MANAGEMENT AGENCY (DCMA) S R&D- DEFENSE SYSTEM: AIRCRAFT (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT) RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT
PSC:	DCMA NG BETHPAGE AC12 541712	PSC Type: PSC Description: NAICS Description:	MANAGEMENT AGENCY (DCMA) S R&D- DEFENSE SYSTEM: AIRCRAFT (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT) RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
PSC: NAICS: Entity City:	DCMA NG BETHPAGE AC12 541712 BETHPAGE	PSC Type: PSC Description: NAICS Description: Entity State:	MANAGEMENT AGENCY (DCMA) S R&D- DEFENSE SYSTEM: AIRCRAFT (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT) RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY) NY
PSC: NAICS: Entity City: Entity ZIP Code: Additional Reporting	DCMA NG BETHPAGE AC12 541712 BETHPAGE 117145000	PSC Type: PSC Description: NAICS Description: Entity State: Additional Reporting Code:	MANAGEMENT AGENCY (DCMA) S R&D- DEFENSE SYSTEM: AIRCRAFT (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT) RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY) NY

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Contract ID:	0001	Reference IDV:	FA945112D0178
Modification Number:	4	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$0.00
Date Signed:	Mar 18, 2015	Solicitation Date:	_
Contracting Agency ID:	5700	Contracting Agency:	DEPT OF THE AIR FORCE
Contracting Office Name:	FA9451 AFRL RDK	PSC Type:	S
PSC:	AC52	PSC Description:	R&D- DEFENSE SYSTEM: WEAPONS (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 Business Name:	NORTHROP GRUMMAN CORPORATION
Legal Business Name:	NORTHROP GRUMMAN SYSTEMS CORPORATION	CAGE Code:	-
Contract ID:	0001	Reference IDV:	FA865008D7801
Modification Number:	6	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$0.00
Date Signed:	Jun 29, 2009	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:	AC22	PSC Description:	R&D-MISSILE & SPACE SYS-A RES/EXPL
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

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Contract ID:	0001	Reference IDV:	FA875013D0134
Modification Number:	0	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$374,139.00
Date Signed:	Apr 9, 2013	Solicitation Date:	-
Contracting Agency ID:	5700	Contracting Agency:	DEPT OF THE AIR FORCE
Contracting Office Name:	FA8750 AFRL RIK	PSC Type:	S
PSC:	AD93	PSC Description:	R&D- DEFENSE OTHER: OTHER (ADVANCED DEVELOPMENT)
NAICS:	541712	NAICS Description:	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
Entity City:	HERNDON	Entity State:	VA
Entity ZIP Code:	201713415	Additional Reporting Code:	-
Additional Reporting Description:	-	Unique Entity ID:	ZXNGPY1BLG94
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:	FA875011D0001
Modification Number:	18	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$889,688.00
Date Signed:	Jul 16, 2014	Solicitation Date:	-
Contracting Agency ID:	5700	Contracting Agency:	DEPT OF THE AIR FORCE
Contracting Office Name:	FA8750 AFRL RIK	PSC Type:	S
PSC:	AD93	PSC Description:	R&D- DEFENSE OTHER: OTHER (ADVANCED DEVELOPMENT)
NAICS:	541712	NAICS Description:	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
Entity City:	HERNDON	Entity State:	VA
Entity ZIP Code:	201713415	Additional Reporting Code:	_
Linesey dir code.			
Additional Reporting Description:	-	Unique Entity ID:	ZXNGPY1BLG94
Additional Reporting	- NKVZLJL93QT6	Unique Entity ID: Ultimate Parent Legal Business Name:	ZXNGPY1BLG94 NORTHROP GRUMMAN CORPORATION

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Contract ID:	0001	Reference IDV:	FA865112D0102
Modification Number:	1	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$42,696.00
Date Signed:	Jul 16, 2012	Solicitation Date:	_
Contracting Agency ID:	5700	Contracting Agency:	DEPT OF THE AIR FORCE
Contracting Office Name:	FA8651 AFRL RWK	PSC Type:	S
PSC:	AC52	PSC Description:	R&D- DEFENSE SYSTEM: WEAPONS (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT)
NAICS:	541712	NAICS Description:	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
Entity City:	HERNDON	Entity State:	VA
Entity ZIP Code:	201713415	Additional Reporting Code:	_
Additional Reporting Description:	-	Unique Entity ID:	ZXNGPY1BLG94
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:	FA945113D0258
Modification Number:	3	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$0.00
Date Signed:	Jul 28, 2013	Solicitation Date:	_
Contracting Agency ID:	5700	Contracting Agency:	DEPT OF THE AIR FORCE
Contracting Office Name:	FA9451 AFRL RDK	PSC Type:	S
PSC:	AC52	PSC Description:	R&D- DEFENSE SYSTEM: WEAPONS (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:	90278	Additional Reporting Code:	-
Additional Reporting Description:	-	Unique Entity ID:	WL6XPAJVBK83
Ultimate Parent Unique	NKVZLJL93QT6	Ultimate Parent Legal	NORTHROP GRUMMAN
Entity ID:		Business Name:	CORPORATION

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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:	_
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 Business Name:	NORTHROP GRUMMAN CORPORATION
Legal Business Name:	NORTHROP GRUMMAN SYSTEMS CORPORATION	CAGE Code:	-
Contract ID:	0001	Reference IDV:	FA875011D0001
Modification Number:	6	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$1,880,525.00
Date Signed:	May 31, 2012	Solicitation Date:	_
Contracting Agency ID:	5700	Contracting Agency:	DEPT OF THE AIR FORCE
Contracting Office Name:	FA8750 AFRL RIK	PSC Type:	S
PSC:	AD93	PSC Description:	R&D- DEFENSE OTHER: OTHER (ADVANCED DEVELOPMENT)
NAICS:	541712	NAICS Description:	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
Entity City:	HERNDON	Entity State:	VA
Entity ZIP Code:	201713415	Additional Reporting Code:	-
Additional Reporting Description:	-	Unique Entity ID:	ZXNGPY1BLG94
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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Contract ID:	0001	Reference IDV:	FA875013D0091
Modification Number:	7	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$1,121,848.00
Date Signed:	Jun 24, 2013	Solicitation Date:	-
Contracting Agency ID:	5700	Contracting Agency:	DEPT OF THE AIR FORCE
Contracting Office Name:	FA8750 AFRL RIK	PSC Type:	S
PSC:	AD95	PSC Description:	R&D- DEFENSE OTHER: OTHER (OPERATIONAL SYSTEMS DEVELOPMENT)
NAICS:	541712	NAICS Description:	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
Entity City:	HERNDON	Entity State:	VA
Entity ZIP Code:	201713415	Additional Reporting Code:	-
Additional Reporting Description:	-	Unique Entity ID:	ZXNGPY1BLG94
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:	FA865008D7801
Modification Number:	9	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$40,000.00
Date Signed:	Dec 4, 2009	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:	AC22	PSC Description:	R&D-MISSILE & SPACE SYS-A RES/EXPL
			KES/EAPL
NAICS:	541712	NAICS Description:	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
NAICS: Entity City: Entity ZIP Code:		_	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
Entity City:	EL SEGUNDO	Entity State: Additional Reporting Code:	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY) CA

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Contract ID:	0001	Reference IDV:	FA865008D3859
Modification Number:	0	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$25,000.00
Date Signed:	Sep 15, 2008	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:	AC12	PSC Description:	R&D-AIRCRAFT-A RES/EXPL DEV
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:	FA865014D2413
Modification Number:	0	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$140,446.00
Date Signed:	Dec 12, 2013	Solicitation Date:	-
Contracting Agency ID:	5700	Contracting Agency:	DEPT OF THE AIR FORCE
Contracting Office Name:	FA8650 USAF AFMC AFRL PZL AFRL/PZL		S
PSC:	AC12	PSC Description:	R&D- DEFENSE SYSTEM: AIRCRAFT (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 Business Name:	NORTHROP GRUMMAN CORPORATION
Legal Business Name:	NORTHROP GRUMMAN SYSTEMS CORPORATION	CAGE Code:	5YJ79

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Contract ID:	0001	Reference IDV:	w56KGU17D0006
Modification Number:	10	Transaction Number:	1
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	-\$24,234.53
Date Signed:	Mar 30, 2023	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 SYSTEMS CORPORATION
Legal Business Name:	NORTHROP GRUMMAN SYSTEMS CORPORATION	CAGE Code:	26916
Contract ID:	0001	Reference IDV:	N0001410D0018
Modification Number:	15	Transaction Number:	0
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$1,240,064.00
Date Signed:	Apr 14, 2015	Solicitation Date:	-
Contracting Agency ID:	1700	Contracting Agency:	DEPT OF THE NAVY
Contracting Office Name:	NAVAL AIR WARFARE CENTER AIR DIV	PSC Type:	S
PSC:	AD92	PSC Description:	R&D- DEFENSE OTHER: OTHER (APPLIED RESEARCH/EXPLORATORY 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:	-

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Contract ID:	0001	Reference IDV:	N0001410D0018
Modification Number:	16	Transaction Number:	0
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$0.00
Date Signed:	Nov 12, 2015	Solicitation Date:	-
Contracting Agency ID:	1700	Contracting Agency:	DEPT OF THE NAVY
Contracting Office Name:	NAVAL AIR WARFARE CENTER AIR DIV	PSC Type:	S
PSC:	AD92	PSC Description:	R&D- DEFENSE OTHER: OTHER (APPLIED RESEARCH/EXPLORATORY 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:	FA945113D0258
Modification Number:	1A	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$0.00
Date Signed:	Sep 16, 2015	Solicitation Date:	_
Contracting Agency ID:	9763	Contracting Agency:	DEFENSE CONTRACT MANAGEMENT AGENCY (DCMA)
Contracting Office Name:	DCMA SPACE ENTERPRISE (EL SEGUNDO)	PSC Type:	S
PSC:	AC52	PSC Description:	R&D- DEFENSE SYSTEM: WEAPONS (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:	90278	Additional Reporting Code:	_
Additional Reporting Description:	-	Unique Entity ID:	WL6XPAJVBK83
- CD CI - F CI CIII .		TTLE TO THE TANK	NODELIDOD CRIMMAN
Ultimate Parent Unique Entity ID:	NKVZLJL93QT6	Ultimate Parent Legal Business Name:	NORTHROP GRUMMAN CORPORATION

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Contract ID:	0001	Reference IDV:	FA945314D0220
Modification Number:	2	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$0.00
Date Signed:	Nov 25, 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 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:	FA807516D0008
Modification Number:	3	Transaction Number:	0
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$7,200.00
Date Signed:	Nov 20, 2018	Solicitation Date:	_
Contracting Agency ID:	5700	Contracting Agency:	DEPT OF THE AIR FORCE
Contracting Office Name:	FA8075 774 ESS	PSC Type:	S
PSC:			
	AZ12	PSC Description:	R&D- OTHER RESEARCH AND DEVELOPMENT (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT)
NAICS:	541712	PSC Description: NAICS Description:	DEVELOPMENT (APPLIED RESEARCH/EXPLORATORY
		_	DEVELOPMENT (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT) RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT
NAICS:	541712	NAICS Description:	DEVELOPMENT (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT) RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
NAICS: Entity City:	541712 MC LEAN	NAICS Description: Entity State:	DEVELOPMENT (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT) RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY) VA
NAICS: Entity City: Entity ZIP Code: Additional Reporting	541712 MC LEAN 221027508	NAICS Description: Entity State: Additional Reporting Code:	DEVELOPMENT (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT) RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY) VA

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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:	FA865014D2413
Modification Number:	4	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$135,000.00
Date Signed:	Jun 19, 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:	AC12	PSC Description:	R&D- DEFENSE SYSTEM: AIRCRAFT (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 Business Name:	NORTHROP GRUMMAN CORPORATION
Legal Business Name:	NORTHROP GRUMMAN SYSTEMS CORPORATION	CAGE Code:	5YJ79

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Contract ID:	0001	Reference IDV:	N0001410D0018
Modification Number:	5	Transaction Number:	0
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$0.00
Date Signed:	Aug 15, 2012	Solicitation Date:	_
Contracting Agency ID:	1700	Contracting Agency:	DEPT OF THE NAVY
Contracting Office Name:	OFFICE OF NAVAL RESEARCH	PSC Type:	S
PSC:	AD92	PSC Description:	R&D- DEFENSE OTHER: OTHER (APPLIED RESEARCH/EXPLORATORY 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:	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:	-
Additional Reporting Description:	-	Unique Entity ID:	E4X3BLZPPPX3
Ultimate Parent Unique Entity ID:	NKVZLJL93QT6	Ultimate Parent Legal Business Name:	Northrop Grumman Corporation
		CAGE Code:	26916

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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:	N0001410D0018
Modification Number:	8	Transaction Number:	0
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$462,505.33
Date Signed:	Mar 20, 2013	Solicitation Date:	_
Contracting Agency ID:	1700	Contracting Agency:	DEPT OF THE NAVY
Contracting Office Name:	OFFICE OF NAVAL RESEARCH	PSC Type:	S
PSC:	AD92	PSC Description:	R&D- DEFENSE OTHER: OTHER (APPLIED RESEARCH/EXPLORATORY 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	CAGE Code:	_

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Contract ID:	0001	Reference IDV:	FA865014D2413
Modification Number:	9	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$250,000.00
Date Signed:	Nov 5, 2015	Solicitation Date:	\$250,000.00
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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:	AC12	PSC Description:	R&D- DEFENSE SYSTEM: AIRCRAFT (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 Business Name:	NORTHROP GRUMMAN CORPORATION
Legal Business Name:	NORTHROP GRUMMAN SYSTEMS CORPORATION	CAGE Code:	5YJ79
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 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:	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 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 Business Name:	NORTHROP GRUMMAN CORPORATION
Legal Business Name:	NORTHROP GRUMMAN SYSTEMS CORPORATION	CAGE Code:	-
Contract ID:	0001	Reference IDV:	N0001410D0018
Modification Number:	13	Transaction Number:	0
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$0.00
		Solicitation Date:	-
Date Signed:	May 21, 2014	BOILDIGUEIGH BUCC.	
Date Signed: Contracting Agency ID:	May 21, 2014 1700	Contracting Agency:	DEPT OF THE NAVY
			DEPT OF THE NAVY
Contracting Agency ID:	1700 NAVAL AIR WARFARE CENTER	Contracting Agency:	
Contracting Agency ID: Contracting Office Name:	1700 NAVAL AIR WARFARE CENTER AIR DIV	Contracting Agency: PSC Type:	S R&D- DEFENSE OTHER: OTHER (APPLIED RESEARCH/EXPLORATORY
Contracting Agency ID: Contracting Office Name: PSC:	1700 NAVAL AIR WARFARE CENTER AIR DIV AD92	Contracting Agency: PSC Type: PSC Description:	S R&D- DEFENSE OTHER: OTHER (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT) RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT
Contracting Agency ID: Contracting Office Name: PSC: NAICS:	1700 NAVAL AIR WARFARE CENTER AIR DIV AD92 541712	Contracting Agency: PSC Type: PSC Description: NAICS Description:	S R&D- DEFENSE OTHER: OTHER (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT) RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
Contracting Agency ID: Contracting Office Name: PSC: NAICS:	1700 NAVAL AIR WARFARE CENTER AIR DIV AD92 541712 EL SEGUNDO	Contracting Agency: PSC Type: PSC Description: NAICS Description: Entity State:	S R&D- DEFENSE OTHER: OTHER (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	1700 NAVAL AIR WARFARE CENTER AIR DIV AD92 541712 EL SEGUNDO 902452804	Contracting Agency: PSC Type: PSC Description: NAICS Description: Entity State: Additional Reporting Code:	S R&D- DEFENSE OTHER: OTHER (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:	FA807516D0008
Modification Number:	1	Transaction Number:	0
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$7,200.00
Date Signed:	Nov 22, 2016	Solicitation Date:	_
Contracting Agency ID:	5700	Contracting Agency:	DEPT OF THE AIR FORCE
Contracting Office Name:	FA8075 774 ESS	PSC Type:	S
PSC:	AZ12	PSC Description:	R&D- OTHER RESEARCH AND DEVELOPMENT (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT)
NAICS:	541712	NAICS Description:	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
Entity City:	MC LEAN	Entity State:	VA
Entity ZIP Code:	221027508	Additional Reporting Code:	-
Additional Reporting Description:	-	Unique Entity ID:	GHKDJMJNPL13
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:	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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Contract ID:	0001	Reference IDV:	FA865014D2413
Modification Number:	1	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$0.00
Date Signed:	Jan 8, 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:	AC12	PSC Description:	R&D- DEFENSE SYSTEM: AIRCRAFT (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 Business Name:	NORTHROP GRUMMAN CORPORATION
Legal Business Name:	NORTHROP GRUMMAN SYSTEMS CORPORATION	CAGE Code:	5YJ79
Contract ID:	0001	Reference IDV:	FA865015D2509
Modification Number:	1	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$252,842.00
Date Signed:	Jun 17, 2015	Solicitation Date:	_
Contracting Agency ID:		at	DEPT OF THE AIR FORCE
	5700	Contracting Agency:	
Contracting Office Name:	FA8650 USAF AFMC AFRL PZL AFRL/PZL		S
Contracting Office Name: PSC:	FA8650 USAF AFMC AFRL PZL		
	FA8650 USAF AFMC AFRL PZL AFRL/PZL	PSC Type:	S R&D- DEFENSE SYSTEM: AIRCRAFT (APPLIED RESEARCH/EXPLORATORY
PSC:	FA8650 USAF AFMC AFRL PZL AFRL/PZL AC12	PSC Type: PSC Description:	S R&D- DEFENSE SYSTEM: AIRCRAFT (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT) RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT
PSC:	FA8650 USAF AFMC AFRL PZL AFRL/PZL AC12 541712	PSC Type: PSC Description: NAICS Description:	S R&D- DEFENSE SYSTEM: AIRCRAFT (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT) RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
PSC: NAICS: Entity City:	FA8650 USAF AFMC AFRL PZL AFRL/PZL AC12 541712 EL SEGUNDO	PSC Type: PSC Description: NAICS Description: Entity State:	S R&D- DEFENSE SYSTEM: AIRCRAFT (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT) RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
PSC: NAICS: Entity City: Entity ZIP Code: Additional Reporting	FA8650 USAF AFMC AFRL PZL AFRL/PZL AC12 541712 EL SEGUNDO 902452804	PSC Type: PSC Description: NAICS Description: Entity State: Additional Reporting Code:	S R&D- DEFENSE SYSTEM: AIRCRAFT (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:	FA865014D2413
Modification Number:	2	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$50,000.00
Date Signed:	Feb 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:	AC12	PSC Description:	R&D- DEFENSE SYSTEM: AIRCRAFT (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 Business Name:	NORTHROP GRUMMAN CORPORATION
Legal Business Name:	NORTHROP GRUMMAN SYSTEMS CORPORATION	CAGE Code:	5YJ79
Contract ID:	0001	Reference IDV:	FA807516D0008
Modification Number:	4	Transaction Number:	0
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$0.00
Date Signed:	Nov 28, 2018	Solicitation Date:	_
Contracting Agency ID:	5700	Contracting Agency:	DEPT OF THE AIR FORCE
Contracting Office Name:	FA8075 774 ESS	PSC Type:	S
		rac Type.	ъ
PSC:	AZ12	PSC Description:	R&D- OTHER RESEARCH AND DEVELOPMENT (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT)
PSC: NAICS:	AZ12 541712		R&D- OTHER RESEARCH AND DEVELOPMENT (APPLIED RESEARCH/EXPLORATORY
		PSC Description:	R&D- OTHER RESEARCH AND DEVELOPMENT (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT) RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT
NAICS:	541712	PSC Description: NAICS Description:	R&D- OTHER RESEARCH AND DEVELOPMENT (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT) RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
NAICS: Entity City:	541712 MC LEAN	PSC Description: NAICS Description: Entity State:	R&D- OTHER RESEARCH AND DEVELOPMENT (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT) RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY) VA
NAICS: Entity City: Entity ZIP Code: Additional Reporting	541712 MC LEAN	PSC Description: NAICS Description: Entity State: Additional Reporting Code:	R&D- OTHER RESEARCH AND DEVELOPMENT (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT) RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY) VA

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Contract ID:	0001	Reference IDV:	FA865014D2413
Modification Number:	5	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$100,000.00
Date Signed:	Oct 17, 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:	AC12	PSC Description:	R&D- DEFENSE SYSTEM: AIRCRAFT (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 Business Name:	NORTHROP GRUMMAN CORPORATION
Legal Business Name:	NORTHROP GRUMMAN SYSTEMS CORPORATION	CAGE Code:	5YJ79
Contract ID:	0001	Reference IDV:	N0001410D0018
Modification Number:	7	Transaction Number:	0
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$1,100,000.00
Date Signed:	Jan 30, 2013	Solicitation Date:	_
Contracting Agency ID:	1700	Contracting Agency:	DEPT OF THE NAVY
Contracting Office Name:	OFFICE OF NAVAL RESEARCH	PSC Type:	S
PSC:	AD92	PSC Description:	R&D- DEFENSE OTHER: OTHER (APPLIED RESEARCH/EXPLORATORY 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	NKVZLJL93QT6	Ultimate Parent Legal Business Name:	NORTHROP GRUMMAN SYSTEMS CORPORATION
Entity ID:			

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Contract ID:	0001	Reference IDV:	FA807516D0008
Modification Number:	0	Transaction Number:	0
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$3,600.00
Date Signed:	Mar 16, 2016	Solicitation Date:	_
Contracting Agency ID:	5700	Contracting Agency:	DEPT OF THE AIR FORCE
Contracting Office Name:	FA8075 774 ESS	PSC Type:	S
PSC:	AZ12	PSC Description:	R&D- OTHER RESEARCH AND DEVELOPMENT (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT)
NAICS:	541712	NAICS Description:	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
Entity City:	MC LEAN	Entity State:	VA
Entity ZIP Code:	221027508	Additional Reporting Code:	-
Additional Reporting Description:	-	Unique Entity ID:	GHKDJMJNPL13
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:	HDTRA114D0006
Modification Number:	0	Transaction Number:	0
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$100,000.00
Date Signed:	Dec 3, 2013	Solicitation Date:	-
Contracting Agency ID:	9761	Contracting Agency:	DEFENSE THREAT REDUCTION AGENCY (DTRA)
Contracting Office Name:	DEFENSE THREAT REDUCTION AGENCY	PSC Type:	S
PSC:	AD92	PSC Description:	R&D- DEFENSE OTHER: OTHER (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT)
NAICS:	541712	NAICS Description:	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
Entity City:	HERNDON	Entity State:	VA
Entity ZIP Code:	201713400	Additional Reporting Code:	-
Additional Reporting Description:	-	Unique Entity ID:	ZXNGPY1BLG94
Ultimate Parent Unique	NKVZLJL93QT6	Ultimate Parent Legal	NORTHROP GRUMMAN
Entity ID:		Business Name:	CORPORATION

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Contract ID:	0001	Reference IDV:	N0001410D0018
Modification Number:	17	Transaction Number:	0
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$0.00
Date Signed:	Sep 6, 2015	Solicitation Date:	-
Contracting Agency ID:	1700	Contracting Agency:	DEPT OF THE NAVY
Contracting Office Name:	NAVAL AIR WARFARE CENTER AIR DIV	PSC Type:	S
PSC:	AD92	PSC Description:	R&D- DEFENSE OTHER: OTHER (APPLIED RESEARCH/EXPLORATORY 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:	HDTRA114D0006
Modification Number:	1	Transaction Number:	0
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$0.00
Date Signed:	Aug 27, 2014	Solicitation Date:	-
Contracting Agency ID:	9761	Contracting Agency:	DEFENSE THREAT REDUCTION AGENCY (DTRA)
Contracting Office Name:	DEFENSE THREAT REDUCTION AGENCY	PSC Type:	S
PSC:	AD92	PSC Description:	R&D- DEFENSE OTHER: OTHER (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT)
	E41710	NAICS Description:	RESEARCH AND DEVELOPMENT
NAICS:	541712		IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
NAICS: Entity City:	HERNDON	Entity State:	ENGINEERING, AND LIFE SCIENCES (EXCEPT
		Entity State: Additional Reporting Code:	ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
Entity City:	HERNDON	_	ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY) VA
Entity City: Entity ZIP Code: Additional Reporting	HERNDON 201713400	Additional Reporting Code:	ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY) VA

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Contract ID:	0001	Reference IDV:	N0001410D0018
Modification Number:	1	Transaction Number:	0
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$200,000.00
Date Signed:	Apr 6, 2011	Solicitation Date:	_
Contracting Agency ID:	1700	Contracting Agency:	DEPT OF THE NAVY
Contracting Office Name:	OFFICE OF NAVAL RESEARCH	PSC Type:	s
PSC:	AD92	PSC Description:	OTHER DEFENSE (APPLIED/EXPLORATORY)
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:	F9SDJAZFTLG6	Ultimate Parent Legal Business Name:	Huntington Ingalls Industries Inc.
Legal Business Name:	NORTHROP GRUMMAN SYSTEMS CORPORATION	CAGE Code:	-
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 Entity ID:	NKVZLJL93QT6	Ultimate Parent Legal Business Name:	NORTHROP GRUMMAN CORPORATION
Legal Business Name:	NORTHROP GRUMMAN SYSTEMS CORPORATION	CAGE Code:	-

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Contract ID:	0001	Reference IDV:	HDTRA114D0006
Modification Number:	2	Transaction Number:	0
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	-\$100,000.00
Date Signed:	Dec 15, 2014	Solicitation Date:	-
Contracting Agency ID:	9761	Contracting Agency:	DEFENSE THREAT REDUCTION AGENCY (DTRA)
Contracting Office Name:	DEFENSE THREAT REDUCTION AGENCY	PSC Type:	S
PSC:	AD92	PSC Description:	R&D- DEFENSE OTHER: OTHER (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT)
NAICS:	541712	NAICS Description:	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
Entity City:	HERNDON	Entity State:	VA
Entity ZIP Code:	201713400	Additional Reporting Code:	-
Additional Reporting Description:	-	Unique Entity ID:	ZXNGPY1BLG94
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:	FA865015D2509
Modification Number:	2	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$0.00
Date Signed:	Oct 7, 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:	AC12	PSC Description:	R&D- DEFENSE SYSTEM: AIRCRAFT (APPLIED RESEARCH/EXPLORATORY 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
	N	Ultimate Parent Legal	NORTHROP GRUMMAN SYSTEMS
Ultimate Parent Unique Entity ID:	NKVZLJL93QT6	Business Name:	CORPORATION

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Contract ID:	0001	Reference IDV:	FA875013D0091
Modification Number:	2	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$12,700,000.00
Date Signed:	Mar 12, 2013	Solicitation Date:	_
Contracting Agency ID:	5700	Contracting Agency:	DEPT OF THE AIR FORCE
Contracting Office Name:	FA8750 AFRL RIK	PSC Type:	S
PSC:	AD95	PSC Description:	R&D- DEFENSE OTHER: OTHER (OPERATIONAL SYSTEMS DEVELOPMENT)
NAICS:	541712	NAICS Description:	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
Entity City:	HERNDON	Entity State:	VA
Entity ZIP Code:	201713415	Additional Reporting Code:	-
Additional Reporting Description:	-	Unique Entity ID:	ZXNGPY1BLG94
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:	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 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 Business Name:	NORTHROP GRUMMAN CORPORATION
Legal Business Name:	NORTHROP GRUMMAN SYSTEMS CORPORATION	CAGE Code:	-

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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
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:	FA865014D2413
Modification Number:	7	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$395,000.00
Date Signed:	Feb 19, 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:	AC12	PSC Description:	R&D- DEFENSE SYSTEM: AIRCRAFT (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 Business Name:	NORTHROP GRUMMAN CORPORATION
Legal Business Name:	NORTHROP GRUMMAN SYSTEMS CORPORATION	CAGE Code:	5YJ79

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Contract ID:	0001	Reference IDV:	N0001410D0018
Modification Number:	0	Transaction Number:	0
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$300,000.00
Date Signed:	Feb 3, 2011	Solicitation Date:	_
Contracting Agency ID:	1700	Contracting Agency:	DEPT OF THE NAVY
Contracting Office Name:	OFFICE OF NAVAL RESEARCH	PSC Type:	S
PSC:	AD92	PSC Description:	OTHER DEFENSE (APPLIED/EXPLORATORY)
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:	F9SDJAZFTLG6	Ultimate Parent Legal Business Name:	Huntington Ingalls Industries Inc.
Legal Business Name:	NORTHROP GRUMMAN SYSTEMS CORPORATION	CAGE Code:	-
Contract ID:	0001	Reference IDV:	FA865015D2509
Modification Number:	0	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$150,000.00
Date Signed:	Feb 25, 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:	AC12	PSC Description:	R&D- DEFENSE SYSTEM: AIRCRAFT (APPLIED RESEARCH/EXPLORATORY 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:	-

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Contract ID:	0001	Reference IDV:	FA865014D2413
Modification Number:	3	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$465,000.00
Date Signed:	Mar 21, 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:	AC12	PSC Description:	R&D- DEFENSE SYSTEM: AIRCRAFT (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 Business Name:	NORTHROP GRUMMAN CORPORATION
Legal Business Name:	NORTHROP GRUMMAN SYSTEMS CORPORATION	CAGE Code:	5YJ79
Contract ID:	0001	Reference IDV:	FA945314D0220
Modification Number:	4	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$0.00
Date Signed:		Solicitation Date:	_
Date bigied.	Mar 2, 2015	BOITCICACION Date:	
Contracting Agency ID:	Mar 2, 2015 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 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 FA9453 AFRL RVK 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 FA9453 AFRL RVK AC22 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:	N0001410D0018
Modification Number:	6	Transaction Number:	0
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$800,000.00
Date Signed:	Sep 25, 2012	Solicitation Date:	-
Contracting Agency ID:	1700	Contracting Agency:	DEPT OF THE NAVY
Contracting Office Name:	OFFICE OF NAVAL RESEARCH	PSC Type:	S
PSC:	AD92	PSC Description:	R&D- DEFENSE OTHER: OTHER (APPLIED RESEARCH/EXPLORATORY 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:	FA865015D1834
Modification Number:	0	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$250,000.00
Date Signed:	Sep 30, 2015	Solicitation Date:	-
Contracting Agency ID:	5700	Contracting Agency:	DEPT OF THE AIR FORCE
Contracting Office Name:	FA8650 USAF AFMC AFRL PZL	PSC Type:	S
	AFRL/PZL		
PSC:	AFRL/PZL AC62	PSC Description:	R&D- DEFENSE SYSTEM: ELECTRONICS/COMMUNICATION EQUIPMENT (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT)
PSC:	· ·		R&D- DEFENSE SYSTEM: ELECTRONICS/COMMUNICATION EQUIPMENT (APPLIED RESEARCH/EXPLORATORY
	AC62	PSC Description:	R&D- DEFENSE SYSTEM: ELECTRONICS/COMMUNICATION EQUIPMENT (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT) RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT
NAICS:	AC62 541712	PSC Description: NAICS Description:	R&D- DEFENSE SYSTEM: ELECTRONICS/COMMUNICATION EQUIPMENT (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT) RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
NAICS: Entity City:	AC62 541712 LINTHICUM HEIGHTS	PSC Description: NAICS Description: Entity State:	R&D- DEFENSE SYSTEM: ELECTRONICS/COMMUNICATION EQUIPMENT (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT) RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY) MD
NAICS: Entity City: Entity ZIP Code: Additional Reporting	AC62 541712 LINTHICUM HEIGHTS 210902202	PSC Description: NAICS Description: Entity State: Additional Reporting Code:	R&D- DEFENSE SYSTEM: ELECTRONICS/COMMUNICATION EQUIPMENT (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT) RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY) MD

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Contract ID:	0001	Reference IDV:	N0001410D0018
Modification Number:	11	Transaction Number:	0
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$279,295.00
Date Signed:	Jan 6, 2014	Solicitation Date:	-
Contracting Agency ID:	1700	Contracting Agency:	DEPT OF THE NAVY
Contracting Office Name:	OFFICE OF NAVAL RESEARCH	PSC Type:	S
PSC:	AD92	PSC Description:	R&D- DEFENSE OTHER: OTHER (APPLIED RESEARCH/EXPLORATORY 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:	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)
NAICS: Entity City:	541712 REDONDO BEACH	NAICS Description: Entity State:	IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT
			IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
Entity City: Entity ZIP Code: Additional Reporting	REDONDO BEACH	Entity State:	IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY) CA
Entity City: Entity ZIP Code:	REDONDO BEACH	Entity State: Additional Reporting Code:	IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)

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Contract ID:	0001	Reference IDV:	FA865008D3859
Modification Number:	1A	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	-\$2,082.69
Date Signed:	Aug 27, 2014	Solicitation Date:	-
Contracting Agency ID:	9763	Contracting Agency:	DEFENSE CONTRACT MANAGEMENT AGENCY (DCMA)
Contracting Office Name:	DCMA SPACE ENTERPRISE (EL SEGUNDO)	PSC Type:	S
PSC:	AC12	PSC Description:	R&D- DEFENSE SYSTEM: AIRCRAFT (APPLIED RESEARCH/EXPLORATORY 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:	FA875013D0091
Modification Number:	1A	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$0.00
Date Signed:	Feb 11, 2014	Solicitation Date:	_
Contracting Agency ID:	9763	Contracting Agency:	DEFENSE CONTRACT MANAGEMENT AGENCY (DCMA)
Contracting Office Name:	DCMA MID-ATLANTIC	PSC Type:	S
PSC:	AD95	PSC Description:	R&D- DEFENSE OTHER: OTHER (OPERATIONAL SYSTEMS DEVELOPMENT)
NAICS:	541712	NAICS Description:	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
Entity City:	HERNDON	Entity State:	VA
Entity ZIP Code:	201713415	Additional Reporting Code:	-
Additional Reporting Description:	-	Unique Entity ID:	ZXNGPY1BLG94
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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Contract ID:	0001	Reference IDV:	FA865015D1834
Modification Number:	2	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$0.00
Date Signed:	Aug 12, 2016	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:	AC62	PSC Description:	R&D- DEFENSE SYSTEM: ELECTRONICS/COMMUNICATION EQUIPMENT (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT)
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:	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

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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 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 Business Name:	NORTHROP GRUMMAN CORPORATION
Legal Business Name:	NORTHROP GRUMMAN SYSTEMS CORPORATION	CAGE Code:	-
Contract ID:	0001	Reference IDV:	N0001410D0018
Modification Number:	10	Transaction Number:	0
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$29,807.00
Date Signed:	Jun 21, 2013	Solicitation Date:	-
Contracting Agency ID:	1700	Contracting Agency:	DEPT OF THE NAVY
Contracting Office Name:	OFFICE OF NAVAL RESEARCH	PSC Type:	S
PSC:	AD92	PSC Description:	R&D- DEFENSE OTHER: OTHER (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT)
NAICS:	541712	NAICS Description:	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
NAICS: Entity City:	541712 EL SEGUNDO	NAICS Description: Entity State:	IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT
			IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
Entity City: Entity ZIP Code: Additional Reporting	EL SEGUNDO	Entity State:	IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY) CA
Entity City: Entity ZIP Code:	EL SEGUNDO	Entity State: Additional Reporting Code:	IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)

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Contract ID:	0001	Reference IDV:	FA875013D0091
Modification Number:	1	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$25,000.00
Date Signed:	Jan 18, 2013	Solicitation Date:	_
Contracting Agency ID:	5700	Contracting Agency:	DEPT OF THE AIR FORCE
Contracting Office Name:	FA8750 AFRL RIK	PSC Type:	S
PSC:	AD95	PSC Description:	R&D- DEFENSE OTHER: OTHER (OPERATIONAL SYSTEMS DEVELOPMENT)
NAICS:	541712	NAICS Description:	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
Entity City:	HERNDON	Entity State:	VA
Entity ZIP Code:	201713415	Additional Reporting Code:	-
Additional Reporting Description:	-	Unique Entity ID:	ZXNGPY1BLG94
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:	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 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 Business Name:	NORTHROP GRUMMAN 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 Business Name:	NORTHROP GRUMMAN CORPORATION
Legal Business Name:	NORTHROP GRUMMAN SYSTEMS CORPORATION	CAGE Code:	-
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:	-
<u> </u>			
Additional Reporting Description:	-	Unique Entity ID:	E4X3BLZPPPX3
	- NKVZLJL93QT6	Unique Entity ID: Ultimate Parent Legal Business Name:	E4X3BLZPPPX3 Northrop Grumman Corporation

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Contract ID:	0001	Reference IDV:	FA865014D2413
Modification Number:	11	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$100,000.00
Date Signed:	Jan 15, 2016	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:	AC12	PSC Description:	R&D- DEFENSE SYSTEM: AIRCRAFT (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 Business Name:	NORTHROP GRUMMAN CORPORATION
Legal Business Name:	NORTHROP GRUMMAN SYSTEMS CORPORATION	CAGE Code:	5YJ79
Contract ID:	0001	Reference IDV:	N0001410D0018
Modification Number:	14	Transaction Number:	0
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$1,457,934.00
Date Signed:	Dec 30, 2014	Solicitation Date:	-
Contracting Agency ID:	1700	Contracting Agency:	DEPT OF THE NAVY
Contracting Agency ID: Contracting Office Name:	1700 NAVAL AIR WARFARE CENTER AIR DIV	Contracting Agency: PSC Type:	DEPT OF THE NAVY
	NAVAL AIR WARFARE CENTER		
Contracting Office Name:	NAVAL AIR WARFARE CENTER AIR DIV	PSC Type:	S R&D- DEFENSE OTHER: OTHER (APPLIED RESEARCH/EXPLORATORY
Contracting Office Name: PSC:	NAVAL AIR WARFARE CENTER AIR DIV AD92	PSC Type: PSC Description:	S R&D- DEFENSE OTHER: OTHER (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT) RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT
Contracting Office Name: PSC: NAICS:	NAVAL AIR WARFARE CENTER AIR DIV AD92 541712	PSC Type: PSC Description: NAICS Description:	S R&D- DEFENSE OTHER: OTHER (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT) RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
Contracting Office Name: PSC: NAICS: Entity City:	NAVAL AIR WARFARE CENTER AIR DIV AD92 541712 EL SEGUNDO	PSC Type: PSC Description: NAICS Description: Entity State:	S R&D- DEFENSE OTHER: OTHER (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	NAVAL AIR WARFARE CENTER AIR DIV AD92 541712 EL SEGUNDO 902452804	PSC Type: PSC Description: NAICS Description: Entity State: Additional Reporting Code:	S R&D- DEFENSE OTHER: OTHER (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:	FA865008D3859
Modification Number:	1	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$0.00
Date Signed:	Feb 26, 2009	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:	AC12	PSC Description:	R&D-AIRCRAFT-A RES/EXPL DEV
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:	FA865014D1731
Modification Number:	1A	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	-\$1,901.00
Date Signed:	Apr 28, 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:	AC63	PSC Description:	R&D- DEFENSE SYSTEM: ELECTRONICS/COMMUNICATION EQUIPMENT (ADVANCED DEVELOPMENT)
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:	FA945113D0258
Modification Number:	2	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$0.00
Date Signed:	Apr 17, 2013	Solicitation Date:	_
Contracting Agency ID:	5700	Contracting Agency:	DEPT OF THE AIR FORCE
Contracting Office Name:	FA9451 AFRL RDK	PSC Type:	s
PSC:	AC52	PSC Description:	R&D- DEFENSE SYSTEM: WEAPONS (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:	90278	Additional Reporting Code:	_
Additional Reporting Description:	-	Unique Entity ID:	WL6XPAJVBK83
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:	FA865014D2413
Modification Number:	8	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$45,006.00
Date Signed:	Sep 30, 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:	AC12	PSC Description:	R&D- DEFENSE SYSTEM: AIRCRAFT (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT)
NAICS:	541712	NAICS Description:	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
			CA.
Entity City:	REDONDO BEACH	Entity State:	CA
Entity City: Entity ZIP Code:	REDONDO BEACH 902781001	Entity State: Additional Reporting Code:	
		-	
Entity ZIP Code: Additional Reporting		Additional Reporting Code:	-

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Contract ID:	0001	Reference IDV:	N0001410D0018
Modification Number:	9	Transaction Number:	0
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$1,037,494.67
Date Signed:	May 28, 2013	Solicitation Date:	_
Contracting Agency ID:	1700	Contracting Agency:	DEPT OF THE NAVY
Contracting Office Name:	OFFICE OF NAVAL RESEARCH	PSC Type:	S
PSC:	AD92	PSC Description:	R&D- DEFENSE OTHER: OTHER (APPLIED RESEARCH/EXPLORATORY 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:	FA865116D0313
Modification Number:	0	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$298,245.00
Date Signed:	Jan 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 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	CAGE Code:	_

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Contract ID:	0001	Reference IDV:	FA865014D2413
Modification Number:	10	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$111,500.00
Date Signed:	Dec 17, 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:	AC12	PSC Description:	R&D- DEFENSE SYSTEM: AIRCRAFT (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 Business Name:	NORTHROP GRUMMAN CORPORATION
Legal Business Name:	NORTHROP GRUMMAN SYSTEMS CORPORATION	CAGE Code:	5ұJ79
Contract ID:	0001	Reference IDV:	N0001410D0018
Modification Number:	12	Transaction Number:	0
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$0.00
Date Signed:	Mar 20, 2014	Solicitation Date:	-
Contracting Agency ID:	1700	Contracting Agency:	DEPT OF THE NAVY
Contracting Office Name:	OFFICE OF NAVAL RESEARCH	PSC Type:	S
PSC:	AD92	PSC Description:	R&D- DEFENSE OTHER: OTHER (APPLIED RESEARCH/EXPLORATORY 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 Legal	NORTHROP GRUMMAN SYSTEMS
Ultimate Parent Unique Entity ID:	NKVZLJL93QT6	Business Name:	CORPORATION

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Contract ID:	0001	Reference IDV:	FA865014D2413
Modification Number:	12	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$115,251.00
Date Signed:	Mar 4, 2016	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:	AC12	PSC Description:	R&D- DEFENSE SYSTEM: AIRCRAFT (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 Business Name:	NORTHROP GRUMMAN CORPORATION
Legal Business Name:	NORTHROP GRUMMAN SYSTEMS CORPORATION	CAGE Code:	5YJ79
Contract ID:	0001	Reference IDV:	W31P4Q12D0069
Modification Number:	1	Transaction Number:	1
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$0.00
Date Signed:	Jan 25, 2013	Solicitation Date:	-
Contracting Agency ID:	2100	Contracting Agency:	DEPT OF THE ARMY
Contracting Office Name:	W6QK ACC-RSA	PSC Type:	S
PSC:	AC24	PSC Description:	R&D- DEFENSE SYSTEM: MISSILE/SPACE SYSTEMS (ENGINEERING DEVELOPMENT)
NAICS:	541712	NAICS Description:	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
Entity City:	HERNDON	Entity State:	VA
Entity ZIP Code:	201713415	Additional Reporting Code:	-
Additional Reporting Description:	-	Unique Entity ID:	ZXNGPY1BLG94
TTT Limite Division Projection	NKVZLJL93QT6	Ultimate Parent Legal	NORTHROP GRUMMAN
Ultimate Parent Unique Entity ID:		Business Name:	CORPORATION

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Contract ID:	0001	Reference IDV:	FA865015D1834
Modification Number:	1	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$229,865.00
Date Signed:	Mar 4, 2016	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:	AC62	PSC Description:	R&D- DEFENSE SYSTEM: ELECTRONICS/COMMUNICATION EQUIPMENT (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT)
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:	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:	FA865015D1834
Modification Number:	1A	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	-\$4,756.66
Date Signed:	Jul 27, 2022	Solicitation Date:	-
Contracting Agency ID:	9763	Contracting Agency:	DEFENSE CONTRACT MANAGEMENT AGENCY (DCMA)
Contracting Office Name:	DCMA RADARS AND SENSORS	PSC Type:	S
PSC:	AC62	PSC Description:	R&D- DEFENSE SYSTEM: ELECTRONICS/COMMUNICATION EQUIPMENT (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT)
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 SYSTEMS CORPORATION
Legal Business Name:	NORTHROP GRUMMAN SYSTEMS CORPORATION	CAGE Code:	15055
Contract ID:	0001	Reference IDV:	FA807516D0008
Modification Number:	2	Transaction Number:	0
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$0.00
Date Signed:	May 2, 2017	Solicitation Date:	_
Contracting Agency ID:	5700	Contracting Agency:	DEPT OF THE AIR FORCE
Contracting Office Name:	FA8075 774 ESS	PSC Type:	S
PSC:	AZ12	PSC Description:	R&D- OTHER RESEARCH AND DEVELOPMENT (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT)
NAICS:	541712	NAICS Description:	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
Entity City:	MC LEAN	Entity State:	VA
Entity ZIP Code:	221027508	Additional Reporting Code:	-
Additional Reporting Description:	-	Unique Entity ID:	GHKDJMJNPL13
Ultimate Parent Unique Entity ID:	NKVZLJL93QT6	Ultimate Parent Legal Business Name:	NORTHROP GRUMMAN CORPORATION
Legal Business Name:	NORTHROP GRUMMAN SYSTEMS CORPORATION	CAGE Code:	32143

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Contract ID:	0001	Reference IDV:	N0001410D0018
Modification Number:	2	Transaction Number:	0
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$75,000.00
Date Signed:	Oct 7, 2011	Solicitation Date:	-
Contracting Agency ID:	1700	Contracting Agency:	DEPT OF THE NAVY
Contracting Office Name:	OFFICE OF NAVAL RESEARCH	PSC Type:	S
PSC:	AD92	PSC Description:	R&D- DEFENSE OTHER: OTHER (APPLIED RESEARCH/EXPLORATORY 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:	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

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Contract ID:	0001	Reference IDV:	N0001410D0018
Modification Number:	3	Transaction Number:	0
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$99,268.00
Date Signed:	Nov 1, 2011	Solicitation Date:	_
Contracting Agency ID:	1700	Contracting Agency:	DEPT OF THE NAVY
Contracting Office Name:	OFFICE OF NAVAL RESEARCH	PSC Type:	S
PSC:	AD92	PSC Description:	R&D- DEFENSE OTHER: OTHER (APPLIED RESEARCH/EXPLORATORY 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:	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:	
Entity City: Entity ZIP Code:	LINTHICUM HEIGHTS 210902202	Entity State: Additional Reporting Code:	BIOTECHNOLOGY)
Entity ZIP Code: Additional Reporting		_	BIOTECHNOLOGY) MD
	210902202	Additional Reporting Code:	BIOTECHNOLOGY) MD

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Contract ID:	0001	Reference IDV:	FA875013D0091
Modification Number:	3	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$68,467.00
Date Signed:	Mar 21, 2013	Solicitation Date:	-
Contracting Agency ID:	5700	Contracting Agency:	DEPT OF THE AIR FORCE
Contracting Office Name:	FA8750 AFRL RIK	PSC Type:	S
PSC:	AD95	PSC Description:	R&D- DEFENSE OTHER: OTHER (OPERATIONAL SYSTEMS DEVELOPMENT)
NAICS:	541712	NAICS Description:	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
Entity City:	HERNDON	Entity State:	VA
Entity ZIP Code:	201713415	Additional Reporting Code:	-
Additional Reporting Description:	-	Unique Entity ID:	ZXNGPY1BLG94
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:	N0001410D0018
Modification Number:	4	Transaction Number:	0
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$0.00
Date Signed:	Dec 21, 2011	Solicitation Date:	_
Contracting Agency ID:	1700	Contracting Agency:	DEPT OF THE NAVY
Contracting Office Name:	OFFICE OF NAVAL RESEARCH	PSC Type:	S
PSC:	AD92	PSC Description:	R&D- DEFENSE OTHER: OTHER (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT)
NAICS:	541712	NAICS Description:	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
Entity City:	EL SEGUNDO	Entity State:	CA
BHCTCA CTCA:			
Entity ZIP Code:	902452804	Additional Reporting Code:	-
	902452804	Additional Reporting Code: Unique Entity ID:	T9XKQSKMW4J1
Entity ZIP Code: Additional Reporting			

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Contract ID:	0001	Reference IDV:	FA865014D2413
Modification Number:	6	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$145,000.00
Date Signed:	Dec 3, 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:	AC12	PSC Description:	R&D- DEFENSE SYSTEM: AIRCRAFT (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 Business Name:	NORTHROP GRUMMAN CORPORATION
Legal Business Name:	NORTHROP GRUMMAN SYSTEMS CORPORATION	CAGE Code:	5ҰJ79
Contract ID:	N0001912C0059	Reference IDV:	-
Modification Number:	P00003	Transaction Number:	1
Award/IDV Type:	DCA Definitive Contract	Action Obligation (\$):	\$0.00
Date Signed:	Jul 27, 2012	Solicitation Date:	_
Contracting Agency ID:	1700	Contracting Agency:	DEPT OF THE NAVY
Contracting Office Name:	NAVAL AIR SYSTEMS COMMAND	PSC Type:	S
PSC:	AC15	PSC Description:	R&D- DEFENSE SYSTEM: AIRCRAFT (OPERATIONAL SYSTEMS DEVELOPMENT)
NAICS:	541712	NAICS Description:	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
Entity City:	SAN DIEGO	Entity State:	CA
Entity City: Entity ZIP Code:	SAN DIEGO 921272412	Entity State: Additional Reporting Code:	CA -
		_	CA - LALWKM623MU7
Entity ZIP Code: Additional Reporting		Additional Reporting Code:	-

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Contract ID:	FA865010C7004	Reference IDV:	-
Modification Number:	P00004	Transaction Number:	4
Award/IDV Type:	DCA Definitive Contract	Action Obligation (\$):	\$198,252.00
Date Signed:	Aug 12, 2010	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:	AC63	PSC Description:	R&D-ELECTRONICS & COMM EQ ADV DEV
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:	N0001912C0059	Reference IDV:	-
Modification Number:	P00003	Transaction Number:	6
Award/IDV Type:	DCA Definitive Contract	Action Obligation (\$):	\$0.00
Date Signed:	Jul 27, 2012	Solicitation Date:	-
Contracting Agency ID:	1700	Contracting Agency:	DEPT OF THE NAVY
Contracting Office Name:	NAVAL AIR SYSTEMS COMMAND	PSC Type:	S
PSC:	AC15	PSC Description:	R&D- DEFENSE SYSTEM: AIRCRAFT (OPERATIONAL SYSTEMS DEVELOPMENT)
NAICS:	541712	NAICS Description:	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
Entity City:	SAN DIEGO	Entity State:	CA
	921272412	Additional Reporting Code:	_
Entity ZIP Code:		Maiana Batitu ID.	LALWKM623MU7
Additional Reporting	-	Unique Entity ID:	
Entity ZIP Code: Additional Reporting Description: Ultimate Parent Unique Entity ID:	- NKVZLJL93QT6	Ultimate Parent Legal Business Name:	NORTHROP GRUMMAN SYSTEMS CORPORATION

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Contract ID:	FA865008C2935	Reference IDV:	_
Modification Number:	P00009	Transaction Number:	4
Award/IDV Type:	DCA Definitive Contract	Action Obligation (\$):	\$0.00
Date Signed:	Nov 16, 2010	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:	AC12	PSC Description:	R&D-AIRCRAFT-A RES/EXPL DEV
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:	FA865008C7828	Reference IDV:	-
Modification Number:	P00011	Transaction Number:	4
Award/IDV Type:	DCA Definitive Contract	Action Obligation (\$):	\$0.00
Date Signed:	Nov 19, 2009	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:	AC62	PSC Description:	R&D-ELECTRONICS & COMM EQ- A RES/EXP
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:	GUVUU89P78Q3
Ultimate Parent Unique	PZQHGH183LA1	Ultimate Parent Legal Business Name:	NORTHROP GRUMMAN CORPORATION
Entity ID:			

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Contract ID:	W9113M12C0055	Reference IDV:	-
Modification Number:	P00088	Transaction Number:	0
Award/IDV Type:	DCA Definitive Contract	Action Obligation (\$):	\$800,000.00
Date Signed:	Mar 24, 2020	Solicitation Date:	-
Contracting Agency ID:	2100	Contracting Agency:	DEPT OF THE ARMY
Contracting Office Name:	W6QK ACC-RSA	PSC Type:	S
PSC:	AC23	PSC Description:	R&D- DEFENSE SYSTEM: MISSILE/SPACE SYSTEMS (ADVANCED DEVELOPMENT)
NAICS:	541712	NAICS Description:	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
Entity City:	BOULDER	Entity State:	CO
Entity ZIP Code:	803013206	Additional Reporting Code:	-
Additional Reporting Description:	-	Unique Entity ID:	JJHBEYM2DJ66
Ultimate Parent Unique Entity ID:	NKVZLJL93QT6	Ultimate Parent Legal Business Name:	NORTHROP GRUMMAN CORPORATION
Legal Business Name:	NORTHROP GRUMMAN SYSTEMS CORPORATION	CAGE Code:	1BB89
Contract ID:	HR001115C0075	Reference IDV:	-
Modification Number:	P00004	Transaction Number:	0
Award/IDV Type:	DCA Definitive Contract	Action Obligation (\$):	\$46,714.00
Date Signed:	Oct 13, 2015	Solicitation Date:	_
Contracting Agency ID:	97AE	Contracting Agency:	DEFENSE ADVANCED RESEARCH PROJECTS AGENCY (DARPA)
Contracting Office Name:	DEF ADVANCED RESEARCH PROJECTS AGCY	PSC Type:	S
PSC:	AD92	PSC Description:	R&D- DEFENSE OTHER: OTHER (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 Business Name:	NORTHROP GRUMMAN CORPORATION
Legal Business Name:	NORTHROP GRUMMAN SYSTEMS CORPORATION	CAGE Code:	-

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Contract ID:	0001	Reference IDV:	FA865014D1731
Modification Number:	1	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$18,707.00
Date Signed:	Oct 17, 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:	AC63	PSC Description:	R&D- DEFENSE SYSTEM: ELECTRONICS/COMMUNICATION EQUIPMENT (ADVANCED DEVELOPMENT)
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:	W56KGU18F0007	Reference IDV:	W56KGU17D0006
Modification Number:	P00011	Transaction Number:	1
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$113,000.00
Date Signed:	Sep 1, 2023	Solicitation Date:	Mar 29, 2018
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 7TD Code:	600081015	Additional Reporting Code:	NONE
Entity ZIP Code:			
Additional Reporting Description:	NONE OF THE ABOVE	Unique Entity ID:	E4X3BLZPPPX3
Additional Reporting	NONE OF THE ABOVE NKVZLJL93QT6	Unique Entity ID: Ultimate Parent Legal Business Name:	E4X3BLZPPPX3 NORTHROP GRUMMAN SYSTEMS CORPORATION

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Contract ID:	N0001912C0059	Reference IDV:	-
Modification Number:	P00045	Transaction Number:	5
Award/IDV Type:	DCA Definitive Contract	Action Obligation (\$):	\$0.00
Date Signed:	Jul 31, 2015	Solicitation Date:	_
Contracting Agency ID:	1700	Contracting Agency:	DEPT OF THE NAVY
Contracting Office Name:	NAVAL AIR SYSTEMS COMMAND	PSC Type:	S
PSC:	AC15	PSC Description:	R&D- DEFENSE SYSTEM: AIRCRAFT (OPERATIONAL SYSTEMS DEVELOPMENT)
NAICS:	541712	NAICS Description:	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
Entity City:	SAN DIEGO	Entity State:	CA
Entity ZIP Code:	921272412	Additional Reporting Code:	-
Additional Reporting Description:	-	Unique Entity ID:	LALWKM623MU7
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:	HR001112C0082	Reference IDV:	-
Modification Number:	P00002	Transaction Number:	0
Award/IDV Type:	DCA Definitive Contract	Action Obligation (\$):	\$639,720.00
Date Signed:	Aug 23, 2012	Solicitation Date:	_
Contracting Agency ID:	97AE	Contracting Agency:	DEFENSE ADVANCED RESEARCH PROJECTS AGENCY (DARPA)
Contracting Office Name:	DEF ADVANCED RESEARCH PROJECTS AGCY	PSC Type:	S
PSC:	AD92	PSC Description:	R&D- DEFENSE OTHER: OTHER (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT)
NAICS:	541712	NAICS Description:	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
Entity City:	HERNDON	Entity State:	VA
Entity ZIP Code:	201713415	Additional Reporting Code:	_
Additional Reporting Description:	-	Unique Entity ID:	ZXNGPY1BLG94
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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Contract ID:	N0001912C0059	Reference IDV:	-
Modification Number:	P00045	Transaction Number:	6
Award/IDV Type:	DCA Definitive Contract	Action Obligation (\$):	\$0.00
Date Signed:	Jul 31, 2015	Solicitation Date:	-
Contracting Agency ID:	1700	Contracting Agency:	DEPT OF THE NAVY
Contracting Office Name:	NAVAL AIR SYSTEMS COMMAND	PSC Type:	S
PSC:	AC15	PSC Description:	R&D- DEFENSE SYSTEM: AIRCRAFT (OPERATIONAL SYSTEMS DEVELOPMENT)
NAICS:	541712	NAICS Description:	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
Entity City:	SAN DIEGO	Entity State:	CA
Entity ZIP Code:	921272412	Additional Reporting Code:	-
Additional Reporting Description:	-	Unique Entity ID:	LALWKM623MU7
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:	HR001110C0140	Reference IDV:	-
Modification Number:	P00018	Transaction Number:	0
Award/IDV Type:	DCA Definitive Contract	Action Obligation (\$):	\$8,509,320.00
Date Signed:	Dec 14, 2012	Solicitation Date:	-
Contracting Agency ID:	97AE	Contracting Agency:	DEFENSE ADVANCED RESEARCH PROJECTS AGENCY (DARPA)
Contracting Office Name:	DEF ADVANCED RESEARCH PROJECTS AGCY	PSC Type:	S
PSC:	AD92	PSC Description:	R&D- DEFENSE OTHER: OTHER (APPLIED RESEARCH/EXPLORATORY 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:	-

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Contract ID:	HR001113C0014	Reference IDV:	-
Modification Number:	P00001	Transaction Number:	0
Award/IDV Type:	DCA Definitive Contract	Action Obligation (\$):	\$600,000.00
Date Signed:	Jan 8, 2013	Solicitation Date:	-
Contracting Agency ID:	97AE	Contracting Agency:	DEFENSE ADVANCED RESEARCH PROJECTS AGENCY (DARPA)
Contracting Office Name:	DEF ADVANCED RESEARCH PROJECTS AGCY	PSC Type:	S
PSC:	AD93	PSC Description:	R&D- DEFENSE OTHER: OTHER (ADVANCED 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 Business Name:	NORTHROP GRUMMAN CORPORATION
Legal Business Name:	NORTHROP GRUMMAN SYSTEMS CORPORATION	CAGE Code:	-
Contract ID:	HR001117C0071	Reference IDV:	-
Modification Number:	P00002	Transaction Number:	0
Award/IDV Type:	DCA Definitive Contract	Action Obligation (\$):	\$0.00
Date Signed:	Jan 2, 2018	Solicitation Date:	_
Contracting Agency ID:	97AE	Contracting Agency:	DEFENSE ADVANCED RESEARCH PROJECTS AGENCY (DARPA)
Contracting Office Name:	DEF ADVANCED RESEARCH PROJECTS AGCY	PSC Type:	S
PSC:	AD93	PSC Description:	R&D- DEFENSE OTHER: OTHER (ADVANCED DEVELOPMENT)
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:	GUVUU89P78Q3
Ultimate Parent Unique Entity ID:	NKVZLJL93QT6	Ultimate Parent Legal Business Name:	NORTHROP GRUMMAN CORPORATION
Elicity ID:			

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Contract ID:	HR001110C0114	Reference IDV:	-
Modification Number:	P00002	Transaction Number:	0
Award/IDV Type:	DCA Definitive Contract	Action Obligation (\$):	\$772,009.00
Date Signed:	Nov 8, 2010	Solicitation Date:	_
Contracting Agency ID:	97AE	Contracting Agency:	DEFENSE ADVANCED RESEARCH PROJECTS AGENCY (DARPA)
Contracting Office Name:	DEF ADVANCED RESEARCH PROJECTS AGCY	PSC Type:	S
PSC:	AD93	PSC Description:	OTHER DEFENSE (ADVANCED)
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:	GUVUU89P78Q3
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:	N0001912C0059	Reference IDV:	-
Modification Number:	P00003	Transaction Number:	5
Award/IDV Type:	DCA Definitive Contract	Action Obligation (\$):	\$26,972,844.00
Date Signed:	Jul 27, 2012	Solicitation Date:	_
Contracting Agency ID:	1700	Contracting Agency:	DEPT OF THE NAVY
Contracting Office Name:	NAVAL AIR SYSTEMS COMMAND	PSC Type:	S
PSC:	AC15	PSC Description:	R&D- DEFENSE SYSTEM: AIRCRAFT (OPERATIONAL SYSTEMS DEVELOPMENT)
NAICS:	541712	NAICS Description:	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
Entity City:	SAN DIEGO	Entity State:	CA
Entity ZIP Code:	921272412	Additional Reporting Code:	-
Additional Reporting	-	Unique Entity ID:	LALWKM623MU7
Description:		Illtimate Dement Legal	NORTHROP GRUMMAN SYSTEMS
Ultimate Parent Unique Entity ID:	NKVZLJL93QT6	Ultimate Parent Legal Business Name:	CORPORATION

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Contract ID:	W15P7T11CH267	Reference IDV:	-
Modification Number:	P00023	Transaction Number:	1
Award/IDV Type:	DCA Definitive Contract	Action Obligation (\$):	\$0.00
Date Signed:	Mar 27, 2013	Solicitation Date:	_
Contracting Agency ID:	2100	Contracting Agency:	DEPT OF THE ARMY
Contracting Office Name:	W6QK ACC-APG	PSC Type:	S
PSC:	AC66	PSC Description:	R&D- DEFENSE SYSTEM: ELECTRONICS/COMMUNICATION EQUIPMENT (MANAGEMENT/SUPPORT)
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:	GUVUU89P78Q3
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:	HR001110C0140	Reference IDV:	-
Modification Number:	P00022	Transaction Number:	0
Award/IDV Type:	DCA Definitive Contract	Action Obligation (\$):	\$9,805,599.00
Date Signed:	Sep 6, 2013	Solicitation Date:	_
Contracting Agency ID:	97AE	Contracting Agency:	DEFENSE ADVANCED RESEARCH PROJECTS AGENCY (DARPA)
Contracting Office Name:	DEF ADVANCED RESEARCH PROJECTS AGCY	PSC Type:	S
PSC:	AD92	PSC Description:	R&D- DEFENSE OTHER: OTHER (APPLIED RESEARCH/EXPLORATORY 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:	-

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Contract ID:	HR001111C0139	Reference IDV:	-
Modification Number:	P00003	Transaction Number:	0
Award/IDV Type:	DCA Definitive Contract	Action Obligation (\$):	\$625,284.00
Date Signed:	Feb 27, 2012	Solicitation Date:	-
Contracting Agency ID:	97AE	Contracting Agency:	DEFENSE ADVANCED RESEARCH PROJECTS AGENCY (DARPA)
Contracting Office Name:	DEF ADVANCED RESEARCH PROJECTS AGCY	PSC Type:	S
PSC:	AD93	PSC Description:	R&D- DEFENSE OTHER: OTHER (ADVANCED DEVELOPMENT)
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:	GUVUU89P78Q3
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:	HR001110C0140	Reference IDV:	-
Modification Number:	P00029	Transaction Number:	0
Award/IDV Type:	DCA Definitive Contract	Action Obligation (\$):	\$0.00
Date Signed:	Dec 19, 2014	Solicitation Date:	_
Contracting Agency ID:	97AE	Contracting Agency:	DEFENSE ADVANCED RESEARCH PROJECTS AGENCY (DARPA)
Contracting Office Name:	DEF ADVANCED RESEARCH PROJECTS AGCY	PSC Type:	S
PSC:	AD92	PSC Description:	R&D- DEFENSE OTHER: OTHER (APPLIED RESEARCH/EXPLORATORY 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:	-

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Contract ID:	N0001911C0087	Reference IDV:	-
Modification Number:	P00010	Transaction Number:	0
Award/IDV Type:	DCA Definitive Contract	Action Obligation (\$):	\$0.00
Date Signed:	Mar 22, 2013	Solicitation Date:	-
Contracting Agency ID:	1700	Contracting Agency:	DEPT OF THE NAVY
Contracting Office Name:	NAVAL AIR SYSTEMS COMMAND	PSC Type:	S
PSC:	AC15	PSC Description:	R&D- DEFENSE SYSTEM: AIRCRAFT (OPERATIONAL SYSTEMS DEVELOPMENT)
NAICS:	541712	NAICS Description:	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
Entity City:	SAN DIEGO	Entity State:	CA
Entity ZIP Code:	921272412	Additional Reporting Code:	-
Additional Reporting Description:	-	Unique Entity ID:	LALWKM623MU7
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:	HDTRA113C0053	Reference IDV:	-
Modification Number:	P00002	Transaction Number:	0
Award/IDV Type:	DCA Definitive Contract	Action Obligation (\$):	\$0.00
Date Signed:	May 20, 2014	Solicitation Date:	_
Contracting Agency ID:	9761	Contracting Agency:	DEFENSE THREAT REDUCTION AGENCY (DTRA)
Contracting Office Name:	DEFENSE THREAT REDUCTION AGENCY	PSC Type:	s
PSC:	AD92	PSC Description:	R&D- DEFENSE OTHER: OTHER (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT)
NAICS:	541712	NAICS Description:	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
Entity City:	CINCINNATI	Entity State:	ОН
Entity ZIP Code:	452461221	Additional Reporting Code:	-
Additional Reporting Description:	-	Unique Entity ID:	SM76A6KQHHK3
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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Contract ID:	HR001110C0140	Reference IDV:	-
Modification Number:	P00020	Transaction Number:	0
Award/IDV Type:	DCA Definitive Contract	Action Obligation (\$):	\$661,218.00
Date Signed:	Jun 26, 2013	Solicitation Date:	-
Contracting Agency ID:	97AE	Contracting Agency:	DEFENSE ADVANCED RESEARCH PROJECTS AGENCY (DARPA)
Contracting Office Name:	DEF ADVANCED RESEARCH PROJECTS AGCY	PSC Type:	S
PSC:	AD92	PSC Description:	R&D- DEFENSE OTHER: OTHER (APPLIED RESEARCH/EXPLORATORY 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:	HR001108C0108	Reference IDV:	-
Modification Number:	P00014	Transaction Number:	0
Award/IDV Type:	DCA Definitive Contract	Action Obligation (\$):	-\$175,000.00
Date Signed:	Mar 18, 2010	Solicitation Date:	-
Contracting Agency ID:	97AE	Contracting Agency:	DEFENSE ADVANCED RESEARCH PROJECTS AGENCY (DARPA)
Contracting Office Name:	DEF ADVANCED RESEARCH PROJECTS AGCY	PSC Type:	S
PSC:	AD93	PSC Description:	OTHER DEFENSE (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:	-

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Contract ID:	N0001912C0059	Reference IDV:	-
Modification Number:	P00045	Transaction Number:	1
Award/IDV Type:	DCA Definitive Contract	Action Obligation (\$):	\$0.00
Date Signed:	Jul 31, 2015	Solicitation Date:	-
Contracting Agency ID:	1700	Contracting Agency:	DEPT OF THE NAVY
Contracting Office Name:	NAVAL AIR SYSTEMS COMMAND	PSC Type:	S
PSC:	AC15	PSC Description:	R&D- DEFENSE SYSTEM: AIRCRAFT (OPERATIONAL SYSTEMS DEVELOPMENT)
NAICS:	541712	NAICS Description:	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
Entity City:	SAN DIEGO	Entity State:	CA
Entity ZIP Code:	921272412	Additional Reporting Code:	-
Additional Reporting Description:	-	Unique Entity ID:	LALWKM623MU7
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:	BG01	Reference IDV:	HC102808D2023
Modification Number:	28	Transaction Number:	1
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$0.00
Date Signed:	May 17, 2013	Solicitation Date:	_
Contracting Agency ID:	2100	Contracting Agency:	DEPT OF THE ARMY
Contracting Office Name:	W6QK ACC-APG	PSC Type:	S
PSC:	R799	PSC Description:	SUPPORT- MANAGEMENT: OTHER
NAICS:	541712	NAICS Description:	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
Entity City:	CHANTILLY	Entity State:	VA
Entity ZIP Code:	201513822	Additional Reporting Code:	-
Additional Reporting Description:	-	Unique Entity ID:	X1MRDHSQMJ58
Ultimate Parent Unique Entity ID:	NKVZLJL93QT6	Ultimate Parent Legal Business Name:	NORTHROP GRUMMAN SYSTEMS CORPORATION
Legal Business Name:	NORTHROP GRUMMAN SYSTEMS CORPORATION	CAGE Code:	-

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Contract ID:	HR001113C0077	Reference IDV:	-
Modification Number:	P00010	Transaction Number:	0
Award/IDV Type:	DCA Definitive Contract	Action Obligation (\$):	\$169,623.00
Date Signed:	Jun 12, 2015	Solicitation Date:	_
Contracting Agency ID:	97AE	Contracting Agency:	DEFENSE ADVANCED RESEARCH PROJECTS AGENCY (DARPA)
Contracting Office Name:	DEF ADVANCED RESEARCH PROJECTS AGCY	PSC Type:	S
PSC:	AD93	PSC Description:	R&D- DEFENSE OTHER: OTHER (ADVANCED DEVELOPMENT)
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:	-
Contract ID:	HR001116C0053	Reference IDV:	-
Modification Number:	P00004	Transaction Number:	0
Award/IDV Type:	DCA Definitive Contract	Action Obligation (\$):	\$0.00
Date Signed:	Jun 21, 2017	Solicitation Date:	_
Contracting Agency ID:	97AE	Contracting Agency:	DEFENSE ADVANCED RESEARCH PROJECTS AGENCY (DARPA)
Contracting Office Name:	DEF ADVANCED RESEARCH PROJECTS AGCY	PSC Type:	S
PSC:	AD92	PSC Description:	R&D- DEFENSE OTHER: OTHER (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 Business Name:	NORTHROP GRUMMAN CORPORATION
Legal Business Name:	NORTHROP GRUMMAN SYSTEMS CORPORATION	CAGE Code:	5YJ79

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Contract ID:	HR001115C0075	Reference IDV:	_
Modification Number:	P00001	Transaction Number:	0
Award/IDV Type:	DCA Definitive Contract	Action Obligation (\$):	\$0.00
Date Signed:	May 8, 2015	Solicitation Date:	-
Contracting Agency ID:	97AE	Contracting Agency:	DEFENSE ADVANCED RESEARCH
Contracting Agency 1D:	JIAL	contracting Agency:	PROJECTS AGENCY (DARPA)
Contracting Office Name:	DEF ADVANCED RESEARCH PROJECTS AGCY	PSC Type:	S
PSC:	AD92	PSC Description:	R&D- DEFENSE OTHER: OTHER (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 Business Name:	NORTHROP GRUMMAN CORPORATION
Legal Business Name:	NORTHROP GRUMMAN SYSTEMS CORPORATION	CAGE Code:	-
Contract ID:	HR001116C0077	Reference IDV:	-
Modification Number:	P00007	Transaction Number:	0
Award/IDV Type:	DCA Definitive Contract	Action Obligation (\$):	\$0.00
Date Signed:	Jun 25, 2018	Solicitation Date:	-
Contracting Agency ID:	97AE	Contracting Agency:	DEFENSE ADVANCED RESEARCH
	J / ALI		PROJECTS AGENCY (DARPA)
Contracting Office Name:	DEF ADVANCED RESEARCH PROJECTS AGCY	PSC Type:	PROJECTS AGENCY (DARPA)
Contracting Office Name: PSC:	DEF ADVANCED RESEARCH	PSC Type: PSC Description:	
<u>-</u>	DEF ADVANCED RESEARCH PROJECTS AGCY	-	S R&D- DEFENSE OTHER: OTHER (APPLIED RESEARCH/EXPLORATORY
PSC:	DEF ADVANCED RESEARCH PROJECTS AGCY AD92	PSC Description:	S R&D- DEFENSE OTHER: OTHER (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT) RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT
PSC:	DEF ADVANCED RESEARCH PROJECTS AGCY AD92 541712	PSC Description: NAICS Description:	S R&D- DEFENSE OTHER: OTHER (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT) RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
PSC: NAICS: Entity City:	DEF ADVANCED RESEARCH PROJECTS AGCY AD92 541712 ROLLING MEADOWS	PSC Description: NAICS Description: Entity State:	S R&D- DEFENSE OTHER: OTHER (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT) RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
PSC: NAICS: Entity City: Entity ZIP Code: Additional Reporting	DEF ADVANCED RESEARCH PROJECTS AGCY AD92 541712 ROLLING MEADOWS 600081015	PSC Description: NAICS Description: Entity State: Additional Reporting Code:	S R&D- DEFENSE OTHER: OTHER (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT) RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY) IL

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Contract ID:	N6833517C0215	Reference IDV:	-
Modification Number:	P00002	Transaction Number:	0
Award/IDV Type:	DCA Definitive Contract	Action Obligation (\$):	\$2,500,000.00
Date Signed:	Mar 7, 2018	Solicitation Date:	_
Contracting Agency ID:	1700	Contracting Agency:	DEPT OF THE NAVY
Contracting Office Name:	NAVAIR WARFARE CTR AIRCRAFT DIV	PSC Type:	S
PSC:	AC65	PSC Description:	R&D- DEFENSE SYSTEM: ELECTRONICS/COMMUNICATION EQUIPMENT (OPERATIONAL SYSTEMS DEVELOPMENT)
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:	HR001116C0090	Reference IDV:	-
Modification Number:	P00001	Transaction Number:	0
Award/IDV Type:	DCA Definitive Contract	Action Obligation (\$):	\$0.00
Date Signed:	May 31, 2017	Solicitation Date:	_
Contracting Agency ID:	97AE	Contracting Agency:	DEFENSE ADVANCED RESEARCH PROJECTS AGENCY (DARPA)
Contracting Office Name:	DEF ADVANCED RESEARCH PROJECTS AGCY	PSC Type:	S
PSC:	AD93	PSC Description:	R&D- DEFENSE OTHER: OTHER (ADVANCED DEVELOPMENT)
	F41710	NAICS Description:	RESEARCH AND DEVELOPMENT
NAICS:	541712		IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
	LINTHICUM HEIGHTS	Entity State:	ENGINEERING, AND LIFE SCIENCES (EXCEPT
Entity City:		Entity State: Additional Reporting Code:	ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
Entity City: Entity ZIP Code: Additional Reporting	LINTHICUM HEIGHTS	-	ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
Entity City: Entity ZIP Code: Additional Reporting Description: Ultimate Parent Unique Entity ID:	LINTHICUM HEIGHTS	Additional Reporting Code:	ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY) MD

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Contract ID:	N6833517C0215	Reference IDV:	-
Modification Number:	P00008	Transaction Number:	0
Award/IDV Type:	DCA Definitive Contract	Action Obligation (\$):	\$0.00
Date Signed:	Aug 30, 2019	Solicitation Date:	-
Contracting Agency ID:	1700	Contracting Agency:	DEPT OF THE NAVY
Contracting Office Name:	NAVAIR WARFARE CTR AIRCRAFT DIV	PSC Type:	S
PSC:	AC65	PSC Description:	R&D- DEFENSE SYSTEM: ELECTRONICS/COMMUNICATION EQUIPMENT (OPERATIONAL SYSTEMS DEVELOPMENT)
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:	HR001110C0140	Reference IDV:	-
Modification Number:	P00014	Transaction Number:	0
Award/IDV Type:	DCA Definitive Contract	Action Obligation (\$):	-\$23,422,886.00
Date Signed:	Aug 24, 2012	Solicitation Date:	-
Contracting Agency ID:	97AE	Contracting Agency:	DEFENSE ADVANCED RESEARCH PROJECTS AGENCY (DARPA)
Contracting Office Name:	DEF ADVANCED RESEARCH PROJECTS AGCY	PSC Type:	S
PSC:	AD92	PSC Description:	R&D- DEFENSE OTHER: OTHER (APPLIED RESEARCH/EXPLORATORY 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:	-

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Contract ID:	HR001115C0075	Reference IDV:	-
Modification Number:	P00003	Transaction Number:	0
Award/IDV Type:	DCA Definitive Contract	Action Obligation (\$):	\$195,156.00
Date Signed:	Sep 16, 2015	Solicitation Date:	-
Contracting Agency ID:	97AE	Contracting Agency:	DEFENSE ADVANCED RESEARCH PROJECTS AGENCY (DARPA)
Contracting Office Name:	DEF ADVANCED RESEARCH PROJECTS AGCY	PSC Type:	s
PSC:	AD92	PSC Description:	R&D- DEFENSE OTHER: OTHER (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 Business Name:	NORTHROP GRUMMAN CORPORATION
Legal Business Name:	NORTHROP GRUMMAN SYSTEMS CORPORATION	CAGE Code:	-
Contract ID:	HR001117C0043	Reference IDV:	-
Modification Number:	P00003	Transaction Number:	0
Award/IDV Type:	DCA Definitive Contract	Action Obligation (\$):	\$691,697.00
Date Signed:	Aug 9, 2017	Solicitation Date:	_
Contracting Agency ID:	97AE	Contracting Agency:	DEFENSE ADVANCED RESEARCH PROJECTS AGENCY (DARPA)
Contracting Office Name:	DEF ADVANCED RESEARCH PROJECTS AGCY	PSC Type:	S
PSC:	AD93	PSC Description:	R&D- DEFENSE OTHER: OTHER (ADVANCED DEVELOPMENT)
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:	GUVUU89P78Q3
Ultimate Parent Unique Entity ID:	NKVZLJL93QT6	Ultimate Parent Legal Business Name:	NORTHROP GRUMMAN CORPORATION
Legal Business Name:	NORTHROP GRUMMAN SYSTEMS CORPORATION	CAGE Code:	97942

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Contract ID:	HR001114C0068	Reference IDV:	_
Modification Number:	P00002	Transaction Number:	0
Award/IDV Type:	DCA Definitive Contract	Action Obligation (\$):	\$500,000.00
Date Signed:	Mar 17, 2015	Solicitation Date:	-
Contracting Agency ID:	97AE	Contracting Agency:	DEFENSE ADVANCED RESEARCH
concraceing agency in.	J/AL	concracting agency.	PROJECTS AGENCY (DARPA)
Contracting Office Name:	DEF ADVANCED RESEARCH PROJECTS AGCY	PSC Type:	S
PSC:	AD92	PSC Description:	R&D- DEFENSE OTHER: OTHER (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 Business Name:	NORTHROP GRUMMAN CORPORATION
Legal Business Name:	NORTHROP GRUMMAN SYSTEMS CORPORATION	CAGE Code:	-
Contract ID:	HR001112C0001	Reference IDV:	-
Modification Number:	P00004	Transaction Number:	0
Award/IDV Type:	DCA Definitive Contract	Action Obligation (\$):	\$1,010,586.00
Date Signed:	Jan 11, 2013	Solicitation Date:	-
Contracting Agency ID:	97AE	Contracting Agency:	DEFENSE ADVANCED RESEARCH PROJECTS AGENCY (DARPA)
			, ,
Contracting Office Name:	DEF ADVANCED RESEARCH PROJECTS AGCY	PSC Type:	S
Contracting Office Name: PSC:		PSC Type: PSC Description:	
<u>-</u>	PROJECTS AGCY		S R&D- DEFENSE OTHER: OTHER (APPLIED RESEARCH/EXPLORATORY
PSC:	PROJECTS AGCY AD92	PSC Description:	S R&D- DEFENSE OTHER: OTHER (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT) RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT
PSC:	PROJECTS AGCY AD92 541712	PSC Description: NAICS Description:	S R&D- DEFENSE OTHER: OTHER (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT) RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
PSC: NAICS: Entity City:	PROJECTS AGCY AD92 541712 REDONDO BEACH	PSC Description: NAICS Description: Entity State:	S R&D- DEFENSE OTHER: OTHER (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT) RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
PSC: NAICS: Entity City: Entity ZIP Code: Additional Reporting	PROJECTS AGCY AD92 541712 REDONDO BEACH 902781001	PSC Description: NAICS Description: Entity State: Additional Reporting Code:	S R&D- DEFENSE OTHER: OTHER (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT) RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY) CA

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Contract ID:	HR001112C0001	Reference IDV:	_
Modification Number:	P00010	Transaction Number:	0
Award/IDV Type:	DCA Definitive Contract	Action Obligation (\$):	\$1,056,923.00
Date Signed:	Aug 27, 2013	Solicitation Date:	-
Contracting Agency ID:	97AE	Contracting Agency:	DEFENSE ADVANCED RESEARCH
concruoumy magning 221	3 / 1.12		PROJECTS AGENCY (DARPA)
Contracting Office Name:	DEF ADVANCED RESEARCH PROJECTS AGCY	PSC Type:	S
PSC:	AD92	PSC Description:	R&D- DEFENSE OTHER: OTHER (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 Business Name:	NORTHROP GRUMMAN CORPORATION
Legal Business Name:	NORTHROP GRUMMAN SYSTEMS CORPORATION	CAGE Code:	-
Contract ID:	HR001114C0005	Reference IDV:	-
Modification Number:	P00004	Transaction Number:	0
Award/IDV Type:	DCA Definitive Contract	Action Obligation (\$):	\$472,568.00
Date Signed:	Jun 26, 2014	Solicitation Date:	-
Contracting Agency ID:	97AE	Contracting Agency:	DEFENSE ADVANCED RESEARCH PROJECTS AGENCY (DARPA)
Contracting Office Name:	DEF ADVANCED RESEARCH PROJECTS AGCY	PSC Type:	S
Contracting Office Name: PSC:		PSC Type: PSC Description:	S R&D- DEFENSE OTHER: OTHER (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT)
<u>-</u>	PROJECTS AGCY		R&D- DEFENSE OTHER: OTHER (APPLIED RESEARCH/EXPLORATORY
PSC:	PROJECTS AGCY AD92	PSC Description:	R&D- DEFENSE OTHER: OTHER (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT) RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT
PSC:	PROJECTS AGCY AD92 541712	PSC Description:	R&D- DEFENSE OTHER: OTHER (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT) RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
PSC: NAICS: Entity City:	PROJECTS AGCY AD92 541712 LINTHICUM HEIGHTS	PSC Description: NAICS Description: Entity State:	R&D- DEFENSE OTHER: OTHER (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT) RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
PSC: NAICS: Entity City: Entity ZIP Code: Additional Reporting	PROJECTS AGCY AD92 541712 LINTHICUM HEIGHTS 210902202	PSC Description: NAICS Description: Entity State: Additional Reporting Code:	R&D- DEFENSE OTHER: OTHER (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT) RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY) MD

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Contract ID:	HR001112C0001	Reference IDV:	_
Modification Number:	P00012	Transaction Number:	0
Award/IDV Type:	DCA Definitive Contract	Action Obligation (\$):	\$338,655.00
Date Signed:	Jun 4, 2014	Solicitation Date:	-
Contracting Agency ID:	97AE	Contracting Agency:	DEFENSE ADVANCED RESEARCH PROJECTS AGENCY (DARPA)
Contracting Office Name:	DEF ADVANCED RESEARCH PROJECTS AGCY	PSC Type:	S
PSC:	AD92	PSC Description:	R&D- DEFENSE OTHER: OTHER (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 Business Name:	NORTHROP GRUMMAN CORPORATION
Legal Business Name:	NORTHROP GRUMMAN SYSTEMS CORPORATION	CAGE Code:	-
Contract ID:	HR001112C0001	Reference IDV:	-
Modification Number:	P00001	Transaction Number:	0
Award/IDV Type:	DCA Definitive Contract	Action Obligation (\$):	\$1,889,541.00
Date Signed:	Jan 9, 2012	Solicitation Date:	-
Contracting Agency ID:	97AE	Contracting Agency:	DEFENSE ADVANCED RESEARCH PROJECTS AGENCY (DARPA)
Contracting Office Name:			
Concracting Office Name:	DEF ADVANCED RESEARCH PROJECTS AGCY	PSC Type:	S
PSC:		PSC Type: PSC Description:	S R&D- DEFENSE OTHER: OTHER (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT)
<u>-</u>	PROJECTS AGCY		R&D- DEFENSE OTHER: OTHER (APPLIED RESEARCH/EXPLORATORY
PSC:	PROJECTS AGCY AD92	PSC Description:	R&D- DEFENSE OTHER: OTHER (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT) RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT
PSC:	PROJECTS AGCY AD92 541712	PSC Description: NAICS Description:	R&D- DEFENSE OTHER: OTHER (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT) RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
PSC: NAICS: Entity City:	PROJECTS AGCY AD92 541712 REDONDO BEACH	PSC Description: NAICS Description: Entity State:	R&D- DEFENSE OTHER: OTHER (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT) RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
PSC: NAICS: Entity City: Entity ZIP Code: Additional Reporting	PROJECTS AGCY AD92 541712 REDONDO BEACH 902781001	PSC Description: NAICS Description: Entity State: Additional Reporting Code:	R&D- DEFENSE OTHER: OTHER (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT) RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY) CA

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Contract ID:	HR001112C0001	Reference IDV:	_
Modification Number:	P00014	Transaction Number:	0
Award/IDV Type:	DCA Definitive Contract	Action Obligation (\$):	\$0.00
Date Signed:	Nov 27, 2014	Solicitation Date:	-
_			
Contracting Agency ID:	97AE	Contracting Agency:	DEFENSE ADVANCED RESEARCH PROJECTS AGENCY (DARPA)
Contracting Office Name:	DEF ADVANCED RESEARCH PROJECTS AGCY	PSC Type:	S
PSC:	AD92	PSC Description:	R&D- DEFENSE OTHER: OTHER (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 Business Name:	NORTHROP GRUMMAN CORPORATION
Legal Business Name:	NORTHROP GRUMMAN SYSTEMS CORPORATION	CAGE Code:	-
Contract ID:	HR001112C0001	Reference IDV:	-
Modification Number:	P00016	Transaction Number:	0
Award/IDV Type:	DCA Definitive Contract	Action Obligation (\$):	\$0.00
Date Signed:	Mar 12, 2015	Solicitation Date:	-
Contracting Agency ID:	97AE	Contracting Agency:	DEFENSE ADVANCED RESEARCH PROJECTS AGENCY (DARPA)
Contracting Office Name:			
January Jille Halle.	DEF ADVANCED RESEARCH PROJECTS AGCY	PSC Type:	S
PSC:		PSC Type: PSC Description:	R&D- DEFENSE OTHER: OTHER (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT)
<u>-</u>	PROJECTS AGCY		R&D- DEFENSE OTHER: OTHER (APPLIED RESEARCH/EXPLORATORY
PSC:	PROJECTS AGCY AD92	PSC Description:	R&D- DEFENSE OTHER: OTHER (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT) RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT
PSC:	PROJECTS AGCY AD92 541712	PSC Description: NAICS Description:	R&D- DEFENSE OTHER: OTHER (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT) RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
PSC: NAICS: Entity City:	PROJECTS AGCY AD92 541712 REDONDO BEACH	PSC Description: NAICS Description: Entity State:	R&D- DEFENSE OTHER: OTHER (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT) RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
PSC: NAICS: Entity City: Entity ZIP Code: Additional Reporting	PROJECTS AGCY AD92 541712 REDONDO BEACH 902781001	PSC Description: NAICS Description: Entity State: Additional Reporting Code:	R&D- DEFENSE OTHER: OTHER (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT) RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY) CA

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Contract ID:	HR001116C0006	Reference IDV:	-
Modification Number:	P00003	Transaction Number:	0
Award/IDV Type:	DCA Definitive Contract	Action Obligation (\$):	\$0.00
Date Signed:	Mar 28, 2017	Solicitation Date:	_
Contracting Agency ID:	97AE	Contracting Agency:	DEFENSE ADVANCED RESEARCH PROJECTS AGENCY (DARPA)
Contracting Office Name:	DEF ADVANCED RESEARCH PROJECTS AGCY	PSC Type:	S
PSC:	AD93	PSC Description:	R&D- DEFENSE OTHER: OTHER (ADVANCED DEVELOPMENT)
NAICS:	541712	NAICS Description:	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
Entity City:	WOODLAND HILLS	Entity State:	CA
Entity ZIP Code:	913676675	Additional Reporting Code:	_
Additional Reporting Description:	-	Unique Entity ID:	GWFBQY413N79
Ultimate Parent Unique Entity ID:	NKVZLJL93QT6	Ultimate Parent Legal Business Name:	Northrop Grumman Corporation
Legal Business Name:	NORTHROP GRUMMAN SYSTEMS CORPORATION	CAGE Code:	06481
Contract ID:	HR001112C0001	Reference IDV:	-
Modification Number:	P00005	Transaction Number:	0
Award/IDV Type:	DCA Definitive Contract	Action Obligation (\$):	\$0.00
Date Signed:	Feb 5, 2013	Solicitation Date:	-
Contracting Agency ID:	97AE	Contracting Agency:	DEFENSE ADVANCED RESEARCH PROJECTS AGENCY (DARPA)
Contracting Office Name:	DEF ADVANCED RESEARCH PROJECTS AGCY	PSC Type:	S
PSC:	AD92	PSC Description:	R&D- DEFENSE OTHER: OTHER (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 Business Name:	NORTHROP GRUMMAN CORPORATION
Legal Business Name:	NORTHROP GRUMMAN SYSTEMS CORPORATION	CAGE Code:	-

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Contract ID:	BG01	Reference IDV:	HC102808D2023
Modification Number:	14	Transaction Number:	1
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	-\$1,137,287.05
Date Signed:	Aug 15, 2012	Solicitation Date:	-
Contracting Agency ID:	2100	Contracting Agency:	DEPT OF THE ARMY
Contracting Office Name:	W6QK ACC-APG	PSC Type:	s
PSC:	R799	PSC Description:	SUPPORT- MANAGEMENT: OTHER
NAICS:	541712	NAICS Description:	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
Entity City:	CHANTILLY	Entity State:	VA
Entity ZIP Code:	201513822	Additional Reporting Code:	-
Additional Reporting Description:	-	Unique Entity ID:	X1MRDHSQMJ58
Ultimate Parent Unique Entity ID:	NKVZLJL93QT6	Ultimate Parent Legal Business Name:	NORTHROP GRUMMAN SYSTEMS CORPORATION
Legal Business Name:	NORTHROP GRUMMAN SYSTEMS CORPORATION	CAGE Code:	_

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