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:	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 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:	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:	-
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
	AC22		RES/EXPL
NAICS:	541712	NAICS Description:	RES/EXPL RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
NAICS:		<u> </u>	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT
	541712	NAICS Description:	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY) CA
NAICS: Entity City: Entity ZIP Code: Additional Reporting	541712 EL SEGUNDO	NAICS Description: Entity State:	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY) CA
NAICS: Entity City:	541712 EL SEGUNDO	NAICS Description: 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:	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)
	541712 EL SEGUNDO	NAICS Description: Entity State:	IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT
NAICS: Entity City: Entity ZIP Code:		_	IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY) CA
Entity City: Entity ZIP Code: Additional Reporting	EL SEGUNDO	Entity State:	IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY) CA
Entity City:	EL SEGUNDO	Entity State: Additional Reporting Code:	IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)

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	0001		77.05500075005
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:	CA
Entity ZIP Code:	902452804	Additional Reporting Code:	-
	-	Unique Entity ID:	T9XKQSKMW4J1
Additional Reporting Description:			
	NKVZLJL93QT6	Ultimate Parent Legal Business Name:	NORTHROP GRUMMAN SYSTEMS CORPORATION

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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:	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:	-
Encicy zir code.		Unique Entity ID:	T9XKQSKMW4J1
Additional Reporting Description:			
Additional Reporting	- NKVZLJL93QT6	Ultimate Parent Legal Business Name:	NORTHROP GRUMMAN SYSTEMS CORPORATION

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

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Contract ID:	0001	Reference IDV:	FA865110D0325
Modification Number:	9	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$0.00
Date Signed:	Mar 22, 2016	Solicitation Date:	-
Contracting Agency ID:	5700	Contracting Agency:	DEPT OF THE AIR FORCE
Contracting Office Name:	FA8651 AFRL RWK	PSC Type:	S
PSC:	AC53	PSC Description:	R&D- DEFENSE SYSTEM: WEAPONS (ADVANCED DEVELOPMENT)
NAICS:	541712	NAICS Description:	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
Entity City:	EL SEGUNDO	Entity State:	CA
Entity ZIP Code:	902452804	Additional Reporting Code:	_
Additional Reporting Description:	-	Unique Entity ID:	T9XKQSKMW4J1
Ultimate Parent Unique Entity ID:	NKVZLJL93QT6	Ultimate Parent Legal Business Name:	NORTHROP GRUMMAN SYSTEMS CORPORATION
Legal Business Name:	NORTHROP GRUMMAN SYSTEMS CORPORATION	CAGE Code:	-
Contract ID:	0001	Reference IDV:	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:	RES/EXPL RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
	541712 EL SEGUNDO	<u>-</u>	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT
NAICS: Entity City: Entity ZIP Code:		NAICS Description:	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY) CA
Entity City: Entity ZIP Code: Additional Reporting	EL SEGUNDO	NAICS Description: Entity State:	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY) CA
Entity City:	EL SEGUNDO	NAICS Description: 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:	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		S
PSC:	AC22	PSC Description:	R&D-MISSILE & SPACE SYS-A
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)
	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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Combined TD:	0001	Defenses TDV	HARCEOORD 7001
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:	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	-	Unique Entity ID:	T9XKQSKMW4J1
Description:			
	NKVZLJL93QT6	Ultimate Parent Legal Business Name:	NORTHROP GRUMMAN SYSTEMS CORPORATION

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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:	CA
THOTO, CTO,		Additional Reporting Code:	_
Entity ZIP Code:	902452804	Additional Reporting Code.	
Entity ZIP Code: Additional Reporting	902452804	Unique Entity ID:	T9XKQSKMW4J1

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Combined TD:	0001	Defenence TDV.	E306E110D030E
Contract ID:	0001	Reference IDV:	FA865110D0325
Modification Number:	10	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$160,000.00
Date Signed:	Jul 5, 2016	Solicitation Date:	-
Contracting Agency ID:	5700	Contracting Agency:	DEPT OF THE AIR FORCE
Contracting Office Name:	FA8651 AFRL RWK	PSC Type:	S
PSC:	AC53	PSC Description:	R&D- DEFENSE SYSTEM: WEAPONS (ADVANCED DEVELOPMENT)
NAICS:	541712	NAICS Description:	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
Entity City:	EL SEGUNDO	Entity State:	CA
Entity ZIP Code:	902452804	Additional Reporting Code:	-
Additional Reporting Description:	-	Unique Entity ID:	T9XKQSKMW4J1
Ultimate Parent Unique Entity ID:	NKVZLJL93QT6	Ultimate Parent Legal Business Name:	NORTHROP GRUMMAN SYSTEMS CORPORATION
Legal Business Name:	NORTHROP GRUMMAN SYSTEMS CORPORATION	CAGE Code:	-
Contract ID:	0001	Reference IDV:	FA865110D0325
Modification Number:	3	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$0.00
Date Signed:	Sep 24, 2013	Solicitation Date:	-
Contracting Agency ID:	5700	Contracting Agency:	DEPT OF THE AIR FORCE
Contracting Office Name:	FA8651 AFRL RWK	PSC Type:	S
PSC:	AC53	PSC Description:	R&D- DEFENSE SYSTEM: WEAPONS (ADVANCED DEVELOPMENT)
NAICS:	541712	NAICS Description:	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
	541712 EL SEGUNDO	NAICS Description: Entity State:	IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT
NAICS: Entity City: Entity ZIP Code:			IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY) CA
Entity City:	EL SEGUNDO	Entity State:	IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY) CA
Entity City: Entity ZIP Code: Additional Reporting	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:	FA865110D0325
Modification Number:	1	Transaction Number:	4
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$0.00
Date Signed:	Oct 17, 2012	Solicitation Date:	_
Contracting Agency ID:	5700	Contracting Agency:	DEPT OF THE AIR FORCE
Contracting Office Name:	FA8651 AFRL RWK	PSC Type:	S
PSC:	AC53	PSC Description:	R&D- DEFENSE SYSTEM: WEAPONS (ADVANCED DEVELOPMENT)
NAICS:	541712	NAICS Description:	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
Entity City:	EL SEGUNDO	Entity State:	CA
Entity ZIP Code:	902452804	Additional Reporting Code:	_
Additional Reporting Description:	-	Unique Entity ID:	T9XKQSKMW4J1
Ultimate Parent Unique Entity ID:	NKVZLJL93QT6	Ultimate Parent Legal Business Name:	NORTHROP GRUMMAN SYSTEMS CORPORATION
Legal Business Name:	NORTHROP GRUMMAN SYSTEMS CORPORATION	CAGE Code:	-
Contract ID:	0001	Reference IDV:	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
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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
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:	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:	-

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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 CORPORATION	CAGE Code:	-
Contract ID:	0001	Reference IDV:	FA865008D7801
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
	1 /		
PSC:	AC22	PSC Description:	R&D-MISSILE & SPACE SYS-A RES/EXPL
PSC:		PSC Description:	R&D-MISSILE & SPACE SYS-A RES/EXPL RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
NAICS:	AC22	<u>-</u>	RES/EXPL RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT
	AC22 541712	NAICS Description:	RES/EXPL RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY) CA
NAICS: Entity City:	AC22 541712 EL SEGUNDO	NAICS Description: Entity State:	RES/EXPL RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY) CA
NAICS: Entity City: Entity ZIP Code: Additional Reporting	AC22 541712 EL SEGUNDO	NAICS Description: Entity State: Additional Reporting Code:	RES/EXPL RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY) CA

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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
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:	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:	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:	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 Legal	NORTHROP GRUMMAN
Ultimate Parent Unique Entity ID:	PZQHGH183LA1	Business Name:	CORPORATION

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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:	-
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
Legal Business Name:	NORTHROP GRUMMAN SYSTEMS CORPORATION	CAGE Code:	-

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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:	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:	N0001410D0018
Modification Number:	5	Transaction Number:	0
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$0.00
Date Signed:	Aug 15, 2012	Solicitation Date:	_
	Aug 15, 2012		
Contracting Agency ID:	1700	Contracting Agency:	DEPT OF THE NAVY
	-		DEPT OF THE NAVY
Contracting Agency ID:	1700	Contracting Agency:	
Contracting Agency ID: Contracting Office Name:	1700 OFFICE OF NAVAL RESEARCH	Contracting Agency: PSC Type:	S R&D- DEFENSE OTHER: OTHER (APPLIED RESEARCH/EXPLORATORY
Contracting Agency ID: Contracting Office Name: PSC:	1700 OFFICE OF NAVAL RESEARCH 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 OFFICE OF NAVAL RESEARCH 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) CA
Contracting Agency ID: Contracting Office Name: PSC: NAICS:	1700 OFFICE OF NAVAL RESEARCH 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) CA
Contracting Agency ID: Contracting Office Name: PSC: NAICS: Entity City: Entity ZIP Code: Additional Reporting	1700 OFFICE OF NAVAL RESEARCH 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:	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 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
Date Signed:	May 21, 2014	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:	DEVELOPMENT) RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
NAICS: Entity City:	541712 EL SEGUNDO	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)
Entity City:	EL SEGUNDO	Entity State:	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY) CA
Entity City: Entity ZIP Code: Additional Reporting	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:	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:	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:	-
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:	OFFICE OF NAVAL RESEARCH AD92	PSC Type: PSC Description:	S R&D- DEFENSE OTHER: OTHER (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT)
			R&D- DEFENSE OTHER: OTHER (APPLIED RESEARCH/EXPLORATORY
PSC:	AD92	PSC Description:	R&D- DEFENSE OTHER: OTHER (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT) RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT
PSC:	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:	AD92 541712 EL SEGUNDO	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) CA
PSC: NAICS: Entity City: Entity ZIP Code: Additional Reporting	AD92 541712 EL SEGUNDO	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:	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:	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:	-

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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
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
Elicity ID:			

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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 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:	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)
	541712 EL SEGUNDO	NAICS Description: Entity State:	IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT
NAICS: Entity City: Entity ZIP Code:			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:	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:	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:	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
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

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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:	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:	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)
	EL SEGUNDO	Entity State:	CA
Entity City:	EL DECONDO		
Entity City: Entity ZIP Code:	902452804	Additional Reporting Code:	-
Entity ZIP Code: Additional Reporting		Additional Reporting Code: Unique Entity ID:	T9XKQSKMW4J1
	902452804		

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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:	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)
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:	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 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:	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
	PZQHGH183LA1	Ultimate Parent Legal	NORTHROP GRUMMAN
Ultimate Parent Unique Entity ID:	1 5 2 1 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Business Name:	CORPORATION

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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:	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	PZQHGH183LA1	Ultimate Parent Legal Business Name:	NORTHROP GRUMMAN CORPORATION
Entity ID:			

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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:	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:	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:	-
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:	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:	-
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
	7000	PSC Description:	R&D- DEFENSE OTHER: OTHER
PSC:	AD92		(APPLIED RESEARCH/EXPLORATORY DEVELOPMENT)
PSC:	541712	NAICS Description:	RESEARCH/EXPLORATORY
NAICS:			RESEARCH/EXPLORATORY DEVELOPMENT) RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT
NAICS: Entity City:	541712	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	541712 EL SEGUNDO	NAICS Description: Entity State:	RESEARCH/EXPLORATORY DEVELOPMENT) RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY) CA
	541712 EL SEGUNDO 902452804	NAICS Description: Entity State: Additional Reporting Code:	RESEARCH/EXPLORATORY DEVELOPMENT) RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY) CA

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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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