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

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:	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
Illtimate Demont Inimus	F9SDJAZFTLG6	Ultimate Parent Legal	Huntington Ingalls
Ultimate Parent Unique Entity ID:		Business Name:	Industries Inc.

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:	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
Entry CILY:	000450004	Additional Reporting Code:	-
	902452804		
Entity ZIP Code: Additional Reporting	-	Unique Entity ID:	T9XKQSKMW4J1
Entity City: Entity ZIP Code: Additional Reporting Description: Ultimate Parent Unique Entity ID:	- NKVZLJL93QT6	Unique Entity ID: Ultimate Parent Legal Business Name:	T9XKQSKMW4J1 NORTHROP GRUMMAN SYSTEMS CORPORATION

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

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

Contract ID:	0001	Reference IDV:	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 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:	(APPLIED RESEARCH/EXPLORATORY
NAICS: Entity City:	541712 EL SEGUNDO	NAICS Description: Entity State:	(APPLIED RESEARCH/EXPLORATORY DEVELOPMENT) RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT
		-	(APPLIED RESEARCH/EXPLORATORY DEVELOPMENT) RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
Entity City: Entity ZIP Code: Additional Reporting	EL SEGUNDO	Entity State:	(APPLIED RESEARCH/EXPLORATORY DEVELOPMENT) RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY) CA
Entity City: Entity ZIP Code:	EL SEGUNDO	Entity State: Additional Reporting Code:	(APPLIED RESEARCH/EXPLORATORY DEVELOPMENT) RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY) CA

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:	СА
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:	-