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:	-

July 05, 2024 12:24 PM Page 1 of 9

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:	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:	_
	_	Unique Entity ID:	T9XKQSKMW4J1
Additional Reporting Description:			
	PZQHGH183LA1	Ultimate Parent Legal Business Name:	NORTHROP GRUMMAN CORPORATION

July 05, 2024 12:24 PM Page 2 of 9

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:	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)
	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)

July 05, 2024 12:24 PM Page 3 of 9

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		S 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
Contracting Office Name: PSC:		PSC Type: PSC Description:	
	AFRL/PZL		R&D-MISSILE & SPACE SYS-A
PSC:	AFRL/PZL AC22	PSC Description:	R&D-MISSILE & SPACE SYS-A RES/EXPL RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT
PSC:	AFRL/PZL AC22 541712	PSC Description:	R&D-MISSILE & SPACE SYS-A RES/EXPL RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY) CA
PSC: NAICS: Entity City:	AFRL/PZL AC22 541712 EL SEGUNDO	PSC Description: NAICS Description: Entity State:	R&D-MISSILE & SPACE SYS-A RES/EXPL RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY) CA
PSC: NAICS: Entity City: Entity ZIP Code: Additional Reporting	AFRL/PZL AC22 541712 EL SEGUNDO	PSC Description: NAICS Description: Entity State: Additional Reporting Code:	R&D-MISSILE & SPACE SYS-A RES/EXPL RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY) CA

July 05, 2024 12:24 PM Page 4 of 9

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:	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
	PZQHGH183LA1	Ultimate Parent Legal	NORTHROP GRUMMAN
Ultimate Parent Unique Entity ID:	FZQIIGIII 0 SHAI	Business Name:	CORPORATION

July 05, 2024 12:24 PM Page 5 of 9

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:	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:	ENGINEERING, AND LIFE SCIENCES (EXCEPT
Entity City: Entity ZIP Code:	EL SEGUNDO 902452804	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) CA

July 05, 2024 12:24 PM Page 6 of 9

			I
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
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:	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:	-
	_	Unique Entity ID:	T9XKQSKMW4J1
Additional Reporting Description:			
	PZQHGH183LA1	Ultimate Parent Legal Business Name:	NORTHROP GRUMMAN CORPORATION

July 05, 2024 12:24 PM Page 7 of 9

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:	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

July 05, 2024 12:24 PM Page 8 of 9

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:	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

July 05, 2024 12:24 PM Page 9 of 9