Contract ID:	NNX15AJ29G	Reference IDV:	-
Modification Number:	7	Transaction Number:	0
Award/IDV Type:	Grant For Research	Action Obligation (\$):	\$70,000.00
Date Signed:	Dec 5, 2016	Solicitation Date:	-
Contracting Agency ID:	8000	Contracting Agency:	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
Contracting Office Name:	NASA SHARED SERVICES CENTER	PSC Type:	S
PSC:	AR21	PSC Description:	R&D- SPACE: SCIENCE/APPLICATIONS (BASIC RESEARCH)
NAICS:	-	NAICS Description:	-
Entity City:	LIVERMORE	Entity State:	CA
Entity ZIP Code:	945506010	Additional Reporting Code:	-
Additional Reporting Description:	-	Unique Entity ID:	PM52LCJH72T9
Ultimate Parent Unique Entity ID:	PM52LCJH72T9	Ultimate Parent Legal Business Name:	LAWRENCE LIVERMORE NATIONAL SECURITY LLC
Legal Business Name:	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	CAGE Code:	-
Contract ID:	NNX15AJ29G	Reference IDV:	-
Modification Number:	4	Transaction Number:	0
Award/IDV Type:	Grant For Research	Action Obligation (\$):	\$25,214.00
Date Signed:	Feb 18, 2016	Solicitation Date:	
Contracting Agency ID:	8000	Contracting Agency:	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
Contracting Office Name:	NASA SHARED SERVICES CENTER	PSC Type:	S
PSC:	AR21	PSC Description:	R&D- SPACE: SCIENCE/APPLICATIONS (BASIC RESEARCH)
NAICS:	-	NAICS Description:	_
Entity City:	LIVERMORE	Entity State:	CA
Entity ZIP Code:	945506010	Additional Reporting Code:	-
Additional Reporting Description:	-	Unique Entity ID:	PM52LCJH72T9
	PM52LCJH72T9	Ultimate Parent Legal	LAWRENCE LIVERMORE
Ultimate Parent Unique Entity ID:		Business Name:	NATIONAL SECURITY LLC

Contract ID:	NNX15AJ29G	Reference IDV:	-
Modification Number:	3	Transaction Number:	0
Award/IDV Type:	Grant For Research	Action Obligation (\$):	\$35,000.00
Date Signed:	Feb 5, 2016	Solicitation Date:	-
Contracting Agency ID:	8000	Contracting Agency:	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
Contracting Office Name:	NASA SHARED SERVICES CENTER	PSC Type:	S
PSC:	AR21	PSC Description:	R&D- SPACE: SCIENCE/APPLICATIONS (BASIC RESEARCH)
NAICS:	-	NAICS Description:	-
Entity City:	LIVERMORE	Entity State:	CA
Entity ZIP Code:	945506010	Additional Reporting Code:	-
Additional Reporting Description:	-	Unique Entity ID:	PM52LCJH72T9
Ultimate Parent Unique Entity ID:	PM52LCJH72T9	Ultimate Parent Legal Business Name:	LAWRENCE LIVERMORE NATIONAL SECURITY LLC
Legal Business Name:	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	CAGE Code:	-
Contract ID:	NNX15AJ29G	Reference IDV:	-
Modification Number:	12	Transaction Number:	0
Award/IDV Type:	Grant For Research	Action Obligation (\$):	\$0.00
Date Signed:	Sep 12, 2017	Solicitation Date:	
Contracting Agency ID:	8000	Contracting Agency:	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
Contracting Office Name:	NASA SHARED SERVICES CENTER	PSC Type:	S
PSC:	AR21	PSC Description:	R&D- SPACE: SCIENCE/APPLICATIONS (BASIC RESEARCH)
NAICS:	-	NAICS Description:	-
Entity City:	LIVERMORE	Entity State:	CA
Entity ZIP Code:	945506010	Additional Reporting Code:	-
Additional Reporting Description:	-	Unique Entity ID:	PM52LCJH72T9
Ultimate Parent Unique	PM52LCJH72T9	Ultimate Parent Legal Business Name:	LAWRENCE LIVERMORE NATIONAL SECURITY LLC
Entity ID:			

Contract ID:	NNX15AJ29G	Reference IDV:	-
Modification Number:	2	Transaction Number:	0
Award/IDV Type:	Grant For Research	Action Obligation (\$):	\$50,000.00
Date Signed:	Dec 14, 2015	Solicitation Date:	-
Contracting Agency ID:	8000	Contracting Agency:	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
Contracting Office Name:	NASA SHARED SERVICES CENTER	PSC Type:	S
PSC:	AR21	PSC Description:	R&D- SPACE: SCIENCE/APPLICATIONS (BASIC RESEARCH)
NAICS:	-	NAICS Description:	-
Entity City:	LIVERMORE	Entity State:	CA
Entity ZIP Code:	945506010	Additional Reporting Code:	-
Additional Reporting Description:	-	Unique Entity ID:	PM52LCJH72T9
Ultimate Parent Unique Entity ID:	PM52LCJH72T9	Ultimate Parent Legal Business Name:	LAWRENCE LIVERMORE NATIONAL SECURITY LLC
Legal Business Name:	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	CAGE Code:	-
Contract ID:	NNX15AJ29G	Reference IDV:	-
Modification Number:	8	Transaction Number:	0
Award/IDV Type:	Grant For Research	Action Obligation (\$):	\$60,000.00
Date Signed:	Feb 10, 2017	Solicitation Date:	-
Contracting Agency ID:	8000	Contracting Agency:	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
Contracting Office Name:	NASA SHARED SERVICES CENTER	PSC Type:	S
PSC:	AR21	PSC Description:	R&D- SPACE: SCIENCE/APPLICATIONS (BASIC RESEARCH)
NAICS:	-	NAICS Description:	-
Entity City:	LIVERMORE	Entity State:	CA
Entity ZIP Code:	945506010	Additional Reporting Code:	-
-		Unique Entity ID:	PM52LCJH72T9
Additional Reporting Description:	-		
	PM52LCJH72T9	Ultimate Parent Legal Business Name:	LAWRENCE LIVERMORE NATIONAL SECURITY LLC

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Contract ID:	NNX15AJ29G	Reference IDV:	-
Modification Number:	0	Transaction Number:	0
Award/IDV Type:	Grant For Research	Action Obligation (\$):	\$15,000.00
Date Signed:	May 14, 2015	Solicitation Date:	-
Contracting Agency ID:	8000	Contracting Agency:	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
Contracting Office Name:	NASA SHARED SERVICES CENTER	PSC Type:	S
PSC:	AR21	PSC Description:	R&D- SPACE: SCIENCE/APPLICATIONS (BASIC RESEARCH)
NAICS:	-	NAICS Description:	_
Entity City:	LIVERMORE	Entity State:	CA
Entity ZIP Code:	945506010	Additional Reporting Code:	-
Additional Reporting Description:	-	Unique Entity ID:	PM52LCJH72T9
Ultimate Parent Unique Entity ID:	PM52LCJH72T9	Ultimate Parent Legal Business Name:	LAWRENCE LIVERMORE NATIONAL SECURITY LLC
Legal Business Name:	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	CAGE Code:	-
Contract ID:	NNX15AJ29G	Reference IDV:	-
Modification Number:	10	Transaction Number:	0
Award/IDV Type:	Grant For Research	Action Obligation (\$):	\$62,419.00
Date Signed:	Mar 28, 2017	Solicitation Date:	_
Contracting Agency ID:	8000	Contracting Agency:	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
Contracting Office Name:	NASA SHARED SERVICES CENTER	PSC Type:	S
PSC:	AR21	PSC Description:	R&D- SPACE: SCIENCE/APPLICATIONS (BASIC RESEARCH)
NAICS:	-	NAICS Description:	-
Entity City:	LIVERMORE	Entity State:	CA
Entity ZIP Code:	945506010	Additional Reporting Code:	-
Additional Reporting Description:	-	Unique Entity ID:	PM52LCJH72T9
Ultimate Parent Unique Entity ID:	PM52LCJH72T9	Ultimate Parent Legal Business Name:	LAWRENCE LIVERMORE NATIONAL SECURITY LLC

Contract ID:	NNX15AJ29G	Reference IDV:	-
Modification Number:	11	Transaction Number:	0
Award/IDV Type:	Grant For Research	Action Obligation (\$):	\$100,000.00
Date Signed:	Aug 18, 2017	Solicitation Date:	-
Contracting Agency ID:	8000	Contracting Agency:	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
Contracting Office Name:	NASA SHARED SERVICES CENTER	PSC Type:	S
PSC:	AR21	PSC Description:	R&D- SPACE: SCIENCE/APPLICATIONS (BASIC RESEARCH)
NAICS:	-	NAICS Description:	-
Entity City:	LIVERMORE	Entity State:	CA
Entity ZIP Code:	945506010	Additional Reporting Code:	-
Additional Reporting Description:	-	Unique Entity ID:	PM52LCJH72T9
Ultimate Parent Unique Entity ID:	PM52LCJH72T9	Ultimate Parent Legal Business Name:	LAWRENCE LIVERMORE NATIONAL SECURITY LLC
Legal Business Name:	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	CAGE Code:	4K7L1
Contract ID:	NNX15AJ29G	Reference IDV:	-
Modification Number:	13	Transaction Number:	0
Award/IDV Type:	Grant For Research	Action Obligation (\$):	-\$248,015.41
Date Signed:	Oct 20, 2017	Solicitation Date:	_
Contracting Agency ID:	8000	Contracting Agency:	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
Contracting Office Name:	NASA SHARED SERVICES CENTER	PSC Type:	S
PSC:	AR21	PSC Description:	R&D- SPACE: SCIENCE/APPLICATIONS (BASIC RESEARCH)
NAICS:	-	NAICS Description:	-
Entity City:	LIVERMORE	Entity State:	CA
Entity ZIP Code:	945506010	Additional Reporting Code:	-
Additional Reporting Description:	-	Unique Entity ID:	PM52LCJH72T9
Ultimate Parent Unique	PM52LCJH72T9	Ultimate Parent Legal Business Name:	LAWRENCE LIVERMORE NATIONAL SECURITY LLC
Entity ID:			

Contract ID:	NNX15AJ29G	Reference IDV:	-
Modification Number:	1	Transaction Number:	0
Award/IDV Type:	Grant For Research	Action Obligation (\$):	\$25,000.00
Date Signed:	Jul 30, 2015	Solicitation Date:	-
Contracting Agency ID:	8000	Contracting Agency:	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
Contracting Office Name:	NASA SHARED SERVICES CENTER	PSC Type:	S
PSC:	AR21	PSC Description:	R&D- SPACE: SCIENCE/APPLICATIONS (BASIC RESEARCH)
NAICS:	-	NAICS Description:	-
Entity City:	LIVERMORE	Entity State:	CA
Entity ZIP Code:	945506010	Additional Reporting Code:	-
Additional Reporting Description:	-	Unique Entity ID:	PM52LCJH72T9
Ultimate Parent Unique Entity ID:	PM52LCJH72T9	Ultimate Parent Legal Business Name:	LAWRENCE LIVERMORE NATIONAL SECURITY LLC
Legal Business Name:	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	CAGE Code:	-
Contract ID:	NNX15AJ29G	Reference IDV:	-
Modification Number:	5	Transaction Number:	0
Award/IDV Type:	Grant For Research	Action Obligation (\$):	\$0.00
Date Signed:	Sep 16, 2016	Solicitation Date:	
Contracting Agency ID:	8000	Contracting Agency:	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
Contracting Office Name:	NASA SHARED SERVICES CENTER	PSC Type:	S
PSC:	AR21	PSC Description:	R&D- SPACE: SCIENCE/APPLICATIONS (BASIC RESEARCH)
NAICS:	-	NAICS Description:	-
Entity City:	LIVERMORE	Entity State:	CA
Entity ZIP Code:	945506010	Additional Reporting Code:	-
Additional Reporting Description:	-	Unique Entity ID:	PM52LCJH72T9
Ultimate Parent Unique	PM52LCJH72T9	Ultimate Parent Legal Business Name:	LAWRENCE LIVERMORE NATIONAL SECURITY LLC
Entity ID:			

Contract ID:	NNX15AJ29G	Reference IDV:	-
Modification Number:	6	Transaction Number:	0
Award/IDV Type:	Grant For Research	Action Obligation (\$):	\$0.00
Date Signed:	Nov 4, 2016	Solicitation Date:	-
Contracting Agency ID:	8000	Contracting Agency:	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
Contracting Office Name:	NASA SHARED SERVICES CENTER	PSC Type:	S
PSC:	AR21	PSC Description:	R&D- SPACE: SCIENCE/APPLICATIONS (BASIC RESEARCH)
NAICS:	-	NAICS Description:	_
Entity City:	LIVERMORE	Entity State:	CA
Entity ZIP Code:	945506010	Additional Reporting Code:	-
Additional Reporting Description:	-	Unique Entity ID:	PM52LCJH72T9
Ultimate Parent Unique Entity ID:	PM52LCJH72T9	Ultimate Parent Legal Business Name:	LAWRENCE LIVERMORE NATIONAL SECURITY LLC
Legal Business Name:	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	CAGE Code:	-
Contract ID:	NNX15AJ29G	Reference IDV:	-
Modification Number:	9	Transaction Number:	0
Award/IDV Type:	Grant For Research	Action Obligation (\$):	\$0.00
Date Signed:	Mar 11, 2017	Solicitation Date:	-
Contracting Agency ID:	8000	Contracting Agency:	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
Contracting Office Name:	NASA SHARED SERVICES CENTER	PSC Type:	S
PSC:	AR21	PSC Description:	R&D- SPACE: SCIENCE/APPLICATIONS (BASIC RESEARCH)
NAICS:	-	NAICS Description:	_
Entity City:	LIVERMORE	Entity State:	CA
Entity ZIP Code:	945506010	Additional Reporting Code:	-
Additional Reporting Description:	-	Unique Entity ID:	PM52LCJH72T9
		Ultimate Parent Legal	LAWRENCE LIVERMORE
Ultimate Parent Unique Entity ID:	PM52LCJH72T9	Business Name:	NATIONAL SECURITY LLC