

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT		1. CONTRACT ID CODE J	PAGE OF PAGES 1 2	
2. AMENDMENT/MODIFICATION NO. 20	3. EFFECTIVE DATE 14-Jan-2009	4. REQUISITION/PURCHASE REQ. NO. N00421-09-MR-56134		5. PROJECT NO. (If applicable) N/A
6. ISSUED BY NAVAIR Aircraft Division Pax River 21983 BUNDY ROAD, Bldg 441 Patuxent River MD 20670 janiece.shall@navy.mil 301-757-8951	CODE N00421	7. ADMINISTERED BY (If other than Item 6) DCMA SURFACE COMMUNICATION AND SUPPORT SYSTEMS PHILADELPHIA 700 ROBBINS AVENUE, BLDG. 4-A, P.O. BOX 11427 PHILADELPHIA PA 19111-0427		CODE S3915A

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State, and Zip Code) L-3 Services, Inc. 13000 Route 73, Ste 400 Marlton NJ 08053-3408		9A. AMENDMENT OF SOLICITATION NO.
		9B. DATED (SEE ITEM 11)
	[X]	10A. MODIFICATION OF CONTRACT/ORDER NO. N00178-04-D-4143-M804
		10B. DATED (SEE ITEM 13) 10-Mar-2008
CAGE CODE 1NPU4	FACILITY CODE 020278375	

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers is extended, is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning one (1) copy of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

(*)	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
[]	
[]	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
[X]	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: 52.232-22 'Limitation of Funds'
[]	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor is not, is required to sign this document and return ___ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)
SEE PAGE 2

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)	
		Sabana N Moore, Contracting Officer	
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA	16C. DATE SIGNED
(Signature of person authorized to sign)		BY /s/Sabana N Moore	14-Jan-2009
		(Signature of Contracting Officer)	

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GENERAL INFORMATION

The purpose of this modification is to incrementally fund this contract in the amount of \$179,520.00. Accordingly, said Task Order is modified as follows: A conformed copy of this Task Order is attached to this modification for information purposes only.

The total amount of funds obligated to the task is hereby increased by \$179520.00 from \$15738438.06 to \$15917958.06.

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SECTION B SUPPLIES OR SERVICES AND PRICES

CLIN - SUPPLIES OR SERVICES

For Cost Type Items:

Item	Supplies/Services Qty	Unit	Est. Cost	Fixed Fee	CPFF

1000	Base Year Labor (inclusive of CDRLs) (OTHER)	1.0 Lot	\$11,901,793.93	\$616,924.31	\$12,518,718.24
100001	Funding in support of CLIN 1000 Labor for PMA231 E-2C PSA upgrades (OTHER)				
100002	Funding in support of CLIN 1000 Labor for PMA 290 UIII Engr. Services (OTHER)				
100003	Funding in support of CLIN 1000 Labor for PMA 290 UIII Engr. Services (OTHER)				
100004	Funding in support of CLIN 1000 Labor for PMA 290 UIII Engr. Services (OTHER)				
100005	Funding in support of CLIN 1000 Labor for PMA 290 UIII Engr. Services (OTHER)				
100006	Funding in support of CLIN 1000 Labor for PMA 290 UIII Engr. Services (OTHER)				
100007	Funding in support of CLIN 1000 Labor for PMA 290 UIII Engr. Services (OTHER)				
100008	Funding in support of CLIN				

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1000 Labor for
PMA 290 UIII
Engr. Services
(OTHER)

100009 Funding in
support of CLIN
1000 Labor for
PMA 290 UIII
Engr. Services
(OTHER)

100010 Funding in
support of CLIN
1000 Labor for
PMA 290 MMA
(OTHER)

100011 Funding in
support of CLIN
1000 Labor for
PMA 290 MMA
(OTHER)

100012 Funding in
support of CLIN
1000 Labor for
PMA 290 MMA
(OTHER)

100013 Funding in
support of CLIN
1000 Labor for
PMA 290 MMA
(OTHER)

100014 Funding in
support of CLIN
1000 Labor for
PMA 290 MMA
(OTHER)

100015 Funding in
support of CLIN
1000 Labor for
PMA 290 (OTHER)

100016 Funding in
support of CLIN
1000 Labor for
PMA 290 (OTHER)

100017 Funding in
support of CLIN
1000 Labor for
PMA 290 (OTHER)

100018 Funding in
support of CLIN
1000 Labor for
PMA 290 (OTHER)

100019 Funding in
support of CLIN
1000 Labor for

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PMA 290 (OTHER)

100020 Funding in
support of CLIN
1000 Labor for
PMA 290 (OTHER)

100021 Funding in
support of CLIN
1000 Labor for
PMA 290 (OTHER)

100022 Funding in
support of CLIN
1000 Labor for
PMA 290 (OTHER)

100023 Funding in
support of CLIN
1000 Labor for
PMA 290
(OTHER)

100024 Funding in
support of CLIN
1000 Labor for
PMA 290 (OTHER)

100025 Funding in
support of CLIN
1000 Labor for
PMA 290 (OTHER)

100026 Funding in
support of CLIN
1000 Labor for
PMA 290 (OTHER)

100027 Funding in
support of CLIN
1000 Labor for
PMA 290 (OTHER)

100028 Funding in
support of CLIN
1000 Labor for
PMA 290 (OTHER)

100029 Funding in
support of CLIN
1000 Labor for
AIR 4.0 Support
(OTHER)

100030 Funding in
support of CLIN
1000 Labor for
AIR 4.0 Support
(OTHER)

100031 Funding in
support of CLIN
1000 Labor for
AIR 4.1 Studies
Support (OTHER)

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- 100032 Funding in
support of CLIN
1000 Labor for
AIR 4.0 Support
(OTHER)
- 100033 Funding in
support of CLIN
1000 Labor for
AIR 4.0 Support
(OTHER)
- 100034 Funding in
support of CLIN
1000 Labor for
PMA 299 MH-60R
ALFS (OTHER)
- 100035 Funding in
support of CLIN
1000 Labor for
AIR 4.1 Support
(OTHER)
- 100036 Funding in
support of CLIN
1000 Labor for
PMA 264 (OTHER)
- 100037 Funding in
support of CLIN
1000 Labor for
PMA 264 (OTHER)
- 100038 Funding in
support of CLIN
1000 Labor for
PMA 264 (OTHER)
- 100039 Funding in
support of CLIN
1000 Labor for
PMA 271 Engr.
Services (OTHER)
- 100040 Funding in
support of CLIN
1000 Labor for
PMA 264 (OTHER)
- 100041 Funding in
support of CLIN
1000 Labor for
PMA 299 MH-60R
ALFS (OTHER)
- 100042 Funding in
support of CLIN
1000 Labor for
PMA 264 (OTHER)
- 100043 Funding in
support of CLIN
1000 Labor for

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PMA 299 MH-60R
ALFS (OTHER)

- 100044 Funding in
support of CLIN
1000 Labor for
KC-130J APN-5
(OTHER)
- 100045 Funding in
support of CLIN
1000 Labor for
PMA 290 (OTHER)
- 100046 Funding in
support of CLIN
1000 Labor for
PMA 290 (OTHER)
- 100047 Funding in
support of CLIN
1000 Labor for
BAMS UAV (OTHER)
- 100048 Funding in
support of CLIN
1000 Labor for
PMA 290 (OTHER)
- 100049 Funding in
support of CLIN
1000 Labor for
PMA 264 (OTHER)
- 100050 Funding in
support of CLIN
1000 Labor for
PMA 264 (OTHER)
- 100051 Funding in
support of CLIN
1000 Labor for
KC-130J (OTHER)
- 100052 Funding in
support of CLIN
1000 Labor for
C-130 (OTHER)
- 100053 Funding in
support of CLIN
1000 Labor for
PMA 264 (OTHER)
- 100054 Funding in
support of CLIN
1000 Labor for
PMA 290 (OTHER)
- 100055 Funding in
support of CLIN
1000 Labor for
PMA 290 (OTHER)
- 100056 Funding in

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support of CLIN
1000 Labor for
PMA 290 (OTHER)

100057 Funding in
support of CLIN
1000 Labor for
PMA 290 (OTHER)

100058 Funding in
support of CLIN
1000 Labor for
PMA 290 (OTHER)

100059 Funding in
support of CLIN
1000 Labor for
PMA 290 (OTHER)

100060 Funding in
support of CLIN
1000 Labor for
PMA 264 (OTHER)

100061 Funding in
support of CLIN
1000 Labor for
PMA 264 (OTHER)

100062 Funding in
support of CLIN
1000 Labor for
AIR 4.0 PRE
(OTHER)

100063 Funding in
support of CLIN
1000 Labor for
PMA 299 (OTHER)

100064 Funding in
support of CLIN
1000 Labor for
PMA 290 (OTHER)

100065 Funding in
support of CLIN
1000 Labor for
PMA 290 (OTHER)

100066 Funding in
support of CLIN
1000 Labor for
PMA 290 (OTHER)

100067 Funding in
support of CLIN
1000 Labor for
PMA 290 (OTHER)

100068 Funding in
support of CLIN
1000 Labor for
PMA 290 (OTHER)

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100069 Funding in
support of CLIN
1000 Labor for
PMA 290 (OTHER)

100070 Funding in
support of CLIN
1000 Labor for
PMA 290 (OTHER)

100071 Funding in
support of CLIN
1000 Labor for
PMA 290 (OTHER)

100072 Funding in
support of CLIN
1000 Labor for
PMA 290 (OTHER)

100073 Funding in
support of CLIN
1000 Labor for
PMA 290 (OTHER)

100074 Funding in
support of CLIN
1000 Labor for
PMA 290 (OTHER)

100075 Funding in
support of CLIN
1000 Labor for
PMA 290 (OTHER)

100076 Funding in
support of CLIN
1000 Labor for
PMA 290 (OTHER)

100077 Funding in
support of CLIN
1000 Labor for
PMA 290 (OTHER)

100078 Funding in
support of CLIN
1000 Labor for
PMA 290 (OTHER)

100079 Funding in
support of CLIN
1000 Labor for
PMA 290 (OTHER)

100080 Funding in
support of CLIN
1000 Labor for
PMA 290 (OTHER)

100081 Funding in
support of CLIN
1000 Labor for
PMA 290 (OTHER)

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- 100082 Funding in
support of CLIN
1000 Labor for
PMA 290 (OTHER)
- 100083 Funding in
support of CLIN
1000 Labor for
PMA 290 (OTHER)
- 100084 Funding in
support of CLIN
1000 Labor for
PMA 290 (OTHER)
- 100085 Funding in
support of CLIN
1000 Labor for
PMA 231 (OTHER)
- 100086 Funding in
support of CLIN
1000 Labor for
PMA 299 (OTHER)
- 100087 Funding in
support of CLIN
1000 Labor for
AIR 4.1 Support
(OTHER)
- 100088 Funding in
support CLIN 1000
Labor for PMA
290; 4.5 Funds
(OTHER)
- 100089 Funding in
support CLIN 1000
Labor for PMA 264
(OTHER)
- 100090 Funding in
support CLIN 1000
Labor for PMA 264
(OTHER)
- 100091 Funding in
support CLIN 1000
Labor for PMA 290
(OTHER)
- 100092 Funding in
support CLIN 1000
Labor for PMA 290
(OTHER)
- 100093 Funding in
support CLIN 1000
Labor for PMA 290
(OTHER)
- 100094 Funding in
support CLIN 1000
Labor for PMA 290

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(OTHER)

100095 Funding in
support CLIN 1000
Labor for PMA 290
(OTHER)

100096 Funding in
support CLIN 1000
Labor for PMA 299
(OTHER)

100097 Funding in
support CLIN 1000
Labor for PMA 290
(OTHER)

100098 Funding in
support CLIN 1000
Labor for PMA 290
(OTHER)

100099 Funding in
support CLIN 1000
Labor for PMA 290
(OTHER)

1001 Base Year Labor 1.0 Lot \$23,640,003.72 \$1,225,369.30 \$24,865,373.02
(inclusive of
CDRLs) (OTHER)

100101 Funding in
support of CLIN
1001 Labor for
PMA 290 (OTHER)

100102 Funding in
support of CLIN
1001 Labor for
PMA 290 (OTHER)

100103 Funding in
support of CLIN
1001 Labor for
PMA 290 (OTHER)

100104 Funding in
support of CLIN
1001 Labor for
PMA 290 (OTHER)

100105 Funding in
support of CLIN
1001 Labor for
AIR 4.1 (OTHER)

100106 Funding in
support of CLIN
1001 Labor for
PMA 290 (OTHER)

100107 Funding in
support of CLIN
1001 Labor for
PMA 264 (OTHER)

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- 100108 Funding in
support of CLIN
1001 Labor for
PMA 264 (OTHER)
- 100109 Funding in
support of CLIN
1001 Labor for
PMA 264 (OTHER)
- 100110 Funding in
support of CLIN
1001 Labor for
PMA 264 (OTHER)
- 100111 Funding in
support of CLIN
1001 Labor for
PMA 264 (OTHER)
- 100112 Funding in
support of CLIN
1001 Labor for
PMA 290 (OTHER)
- 100113 Funding in
support of CLIN
1001 labor for
PMA 290 (OTHER)
- 100114 Funding in
support of CLIN
1001 labor for
PMA 290 (OTHER)
- 100115 Funding in
support of CLIN
1001 labor for
PMA 290 (OTHER)
- 100116 Funding in
support of CLIN
1001 Labor for
Air 4.0 (OTHER)
- 100117 Funding in
support of CLIN
1001 Labor for
AIR 4.0 (OTHER)
- 100118 Funding in
support of CLIN
1001 Labor for
AIR 4.0 (OTHER)
- 100119 Funding in
support of CLIN
1001 Labor for
PMA-290 (OTHER)
- 100120 Funding in
support of CLIN
1001 Labor for
PMA-290 (OTHER)

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- 100121 Funding in
support of CLIN
1001 Labor for
AIR 4.1 (OTHER)
- 100122 Funding in
support of CLIN
1001 Labor for
PMA 290 (OTHER)
- 100123 Funding in
support of CLIN
1001 Labor for
PMA-290 (OTHER)
- 100124 Funding in
support of CLIN
1001 Labor for
PMA-290 (OTHER)
- 100125 Funding in
support of CLIN
1001 Labor for
PMA-290 (OTHER)
- 100126 Funding in
support of CLIN
1001 Labor for
PMA-290 (OTHER)
- 100127 Funding in
support of CLIN
1001 Labor for
PMA-290 (OTHER)
- 100128 Funding in
support of CLIN
1001 Labor for
PMA-290 (OTHER)
- 100129 Funding in
support of CLIN
1001 Labor for
PMA-299 (OTHER)
- 100130 Funding in
support of CLIN
1001 Labor for
PMA-299...Funding
provided by FMS
Australia For
Labor (OTHER)
- 100131 Funding in
support of CLIN
1001 Labor for
PMA-299...Funding
provided by FMS
Korea For Labor
(OTHER)
- 100132 Funding in
support of CLIN
1001 Labor for

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PMA-299...Funding
provided by MMA
For Labor (OTHER)

100133 Funding in
support of CLIN
1001 Labor for
PMA290...Funding
provided by FMS -
Korea for ASEC
Labor (OTHER)

100134 Funding in
support of CLIN
1001 Labor for
PMA-290.. funding
provided by FMS
Germany for ASEC
Labor (OTHER)

For ODC Items:

Item	Supplies/Services Qty	Unit	Est. Cost
3000	Base Material, Travel and NMCI (O&MN,N)	1.0 Lot	\$1,493,856.00
300001	Funding in support of CLIN 3000 PMA 290 MMA (NMCI) (O&MN,N)		
300002	Funding in support of CLIN 3000 PMA 290 (Travel) (O&MN,N)		
300003	Funding in support of CLIN 3000 PMA 290 (NMCI) (O&MN,N)		
300004	Funding in support of CLIN 3000 AIR 4.0 Support (NMCI) (O&MN,N)		
300005	Funding in support of CLIN 3000 AIR 4.0 Support (NMCI) (O&MN,N)		
300006	Funding in support of CLIN 3000 PMA 264 (NMCI) (O&MN,N)		
300007	Funding in support of CLIN		

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3000 PMA 264
(Travel) (O&MN,N)

300008 Funding in
support of CLIN
3000 PMA 299
(Trv, mat, NMCI)
(O&MN,N)

300009 Funding in
support of CLIN
3000 PMA 290
(Trv, NMCI)
(O&MN,N)

300010 Funding in
support of CLIN
3000 KC-130J
(Travel) (O&MN,N)

300011 Funding in
support of CLIN
3000 BAMS UAV
(Trv, NMCI)
(O&MN,N)

300012 Funding in
support of CLIN
3000 PMA 290
(Trv, Mat, NMCI)
(O&MN,N)

300013 Funding in
support of CLIN
3000 PMA 290(Trv,
Mat, NMCI)
(O&MN,N)

300014 Funding in
support of CLIN
3000 AIR 4.0 PRE
(Mat, NMCI)
(O&MN,N)

300015 Funding in
support of CLIN
3000 PMA 299
(NMCI) (O&MN,N)

300016 Funding in
support of CLIN
3000 PMA
290(NMCI) FMS
(O&MN,N)

300017 Funding in
support of CLIN
3000 PMA
290(NMCI) FMS
(O&MN,N)

300018 Funding in
support of CLIN
3000 PMA
290(Travel)

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(O&MN,N)

- 300019 Funding in
support of CLIN
3000 PMA
290(Material)
(O&MN,N)
- 300020 Funding in
support of CLIN
3000 PMA
290(Travel) FMS
(O&MN,N)
- 300021 Funding in
support of CLIN
3000 PMA
290(Material) FMS
(O&MN,N)
- 300022 Funding in
support of CLIN
3000 PMA
290(Travel)
(O&MN,N)
- 300023 Funding in
support of CLIN
3000 PMA
290(Material)
(O&MN,N)
- 300024 Funding in
support of CLIN
3000 PMA
290(Travel) FMS
(O&MN,N)
- 300025 Funding in
support of CLIN
3000 PMA
290(NMCI)
(O&MN,N)
- 300026 Funding in
support of CLIN
3000 PMA
290(Travel)
(O&MN,N)
- 300027 Funding in
support of CLIN
3000 PMA 299(ODC)
(O&MN,N)
- 300028 Funding in
support of CLIN
3000 410000A CSS
(NMCI) (O&MN,N)
- 300029 Funding in
support of CLIN
3000 PMA
299(Trav,Mat,NMCI)
) (O&MN,N)

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300030 Funding in
support of CLIN
3000 PMA 290
(NMCI) (O&MN,N)

300031 Funding in
support of CLIN
3000 PMA 290
(travel) (O&MN,N)

300032 Funding in
support of CLIN
3000 AIR 4.1
NMCI (O&MN,N)

300033 Funding in
support of CLIN
3000 PMA 290
(Travel) (O&MN,N)

300034 Funding in
support of CLIN
3000 PMA 264
(Travel) (O&MN,N)

300035 Funding in
support of CLIN
3000 4.1 CPP
(Material)
(O&MN,N)

300036 Funding in
support of CLIN
3000 PMA 290
(Travel) (O&MN,N)

300037 Funding in
support of CLIN
3000 Air 4.0
(NMCI) (O&MN,N)

300038 Funding in
support of CLIN
3000 PMA-290
(NMCI) (O&MN,N)

300039 Funding in
support of CLIN
3000 PMA-290
(Trv/NMCI)
(O&MN,N)

300040 Funding in
support of CLIN
3000 AIR 4.1
(NMCI) (O&MN,N)

300041 Funding in
support of CLIN
3000 PMA-290
(Travel) (O&MN,N)

300042 Funding in
support of CLIN

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3000 PMA-290
(Mat&NMCI)
(O&MN,N)

300043 Funding in
support of CLIN
3000 PMA-290
(O&MN,N)

300044 Funding in
support of CLIN
3000 PMA-290
(O&MN,N)

300045 Funding in
support of CLIN
3000 PMA-299
(Trv/NMCO/Mat)
(O&MN,N)

300046 Funding in
support of CLIN
3000 PMA 264
(MATERIAL)
(O&MN,N)

300047 Funding in
support of CLIN
3000 PMA 264
(Travel) (O&MN,N)

300048 Funding in
support of CLIN
3000 PMA-290 (FMS
Germany for
Travel) (O&MN,N)

For Cost Type Items:

Item	Supplies/Services	Qty	Unit	Est. Cost	Fixed Fee	CPFF

4000	Option I-Labor (inclusive of CDRLs) (OTHER) Option		1.0 Lot	\$36,776,466.89	\$1,906,402.14	\$38,682,869.03
4001	Option II-Labor (inclusive of CDRLs) (OTHER) Option		1.0 Lot	\$38,102,893.78	\$1,974,696.24	\$40,077,590.02
4002	Option III-Labor (inclusive of CDRLs) (OTHER) Option		1.0 Lot	\$39,481,038.59	\$2,045,592.35	\$41,526,630.94
4003	Option IV-Labor (inclusive of CDRLs) (OTHER) Option		1.0 Lot	\$40,829,277.28	\$2,115,844.18	\$42,945,121.46

For ODC Items:

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Item	Supplies/Services	Qty	Unit	Est. Cost
6000	Option I-Material, Travel and NMCI (OTHER) Option	1.0	Lot	\$1,493,856.00
6001	Option II-Material, Travel and NMCI (OTHER) Option	1.0	Lot	\$1,493,856.00
6002	Option III-Materials, Travel, and NMCI (OTHER) Option	1.0	Lot	\$1,493,856.00
6003	Option IV-Material, Travel and NMCI (OTHER) Option	1.0	Lot	\$1,493,856.00

SEA 5252.216-9122 LEVEL OF EFFORT (DEC 2000)

(a) The Contractor agrees to provide the total level of effort specified in the next sentence in performance of the work described in Sections B and C of this contract. The total level of effort for the performance of this contract shall be [to be completed for each order] total man-hours of direct labor, including subcontractor direct labor for those subcontractors specifically identified in the Contractor's proposal as having hours included in the proposed level of effort.

(b) Of the total man-hours of direct labor set forth above, it is estimated that [to be identified at the task order level] man-hours are uncompensated effort. Uncompensated effort is defined as hours provided by personnel in excess of 40 hours per week without additional compensation for such excess work. All other effort is defined as compensated effort. If no effort is indicated in the first sentence of this paragraph, uncompensated effort performed by the Contractor shall not be counted in fulfillment of the level of effort obligations under this contract.

(c) Effort performed in fulfilling the total level of effort obligations specified above shall only include effort performed in direct support of this contract and shall not include time and effort expended on such things as (local travel to and from an employee's usual work location), uncompensated effort while on travel status, truncated lunch periods, work (actual or inferred) at an employee's residence or other non-work locations (except as provided in paragraph (j) below), or other time and effort which does not have a specific and direct contribution to the tasks described in Sections B and C.

(d) The level of effort for this contract shall be expended at an average rate of approximately [yearly number of labor hours divided by 52 weeks] hours per week. It is understood and agreed that the rate of man-hours per month may fluctuate in pursuit of the technical objective, provided such fluctuation does not result in the use of the total man-hours of effort prior to the expiration of the term hereof, except as provided in the following paragraph.

(e) If, during the term hereof, the Contractor finds it necessary to accelerate the expenditure of direct labor to such an extent that the total man hours of effort specified above would be used prior to the expiration of the term, the Contractor shall notify the Task Order Contracting Officer in writing setting forth the acceleration required, the probable benefits which would result, and an offer to undertake the acceleration at no increase in the estimated cost or fee together with an offer, setting forth a proposed level of effort, cost breakdown, and proposed fee, for continuation of the work until expiration of the term hereof. The offer shall provide that the work proposed will be subject to the terms and conditions of this contract and any additions or changes required by then current law, regulations, or directives, and that the offer, with a written notice of acceptance by the Task Order Contracting Officer, shall constitute a binding contract. The Contractor shall not accelerate any effort until receipt of such written approval by the Task Order Contracting Officer. Any agreement to accelerate will be formalized by contract modification.

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* Denotes Key Personnel

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SECTION C DESCRIPTIONS AND SPECIFICATIONS

1.0 INTRODUCTION

The Naval Air Systems Command tasks the Naval Air Warfare Center Aircraft Division (NAWCAD) Competency Aligned Organization (CAO) Code AIR 4.1.2 to perform systems analysis, requirements development, software development, systems integration, testing, and fleet introduction and support of warfare systems into Naval Aircrafts. This includes direct systems engineering support throughout the full life cycle of a weapon system from concept development through disposal, and is applied to Naval Aircraft weapons and support systems. This responsibility is applicable throughout the full acquisition process and life cycle of a program. In order to provide this support, a diverse staff with specific in-depth knowledge and experience in leading edge technology is required. The Systems and Software Product Integration Division (AIR 4.1.2) has a requirement to augment the existing systems engineering workforce. The AIR 4.1.2 division has a need for systems engineering and technical efforts to be performed under this solicitation in the following functional areas: Systems Integration and Software Development, Platform Simulation, Integration and Laboratory Engineering, and Software Engineering. These efforts are focused across a broad business base comprised of Integrated Program Teams (IPT's), which support Naval Air Programs.

2.0 SCOPE

This Performance Based Work Statement (PBWS) encompasses the following primary support for the Systems and Software Product Integration Division (AIR 4.1.2) NAWCAD and in support of tasking by NAVAIR PMA activities: Software Systems Engineering, Software Development, Test, Software Acquisition, Systems/Subsystems Integration, Avionics/Software/Air Vehicle Technology Insertion, Configuration Management, Program Performance Assessment Analysis/Planning. This effort shall apply to U.S. domestic military programs and Foreign Military Sales (FMS) programs.

This Performance Work Statement (PWS) will entail the development and integration of systems, including hardware and software, as required. This shall include software program generation and software and hardware integration, along with development of test devices and systems which support system test and integration such as weapon system simulators and trainers. Such devices may include non-intrusive hardware/interface monitoring devices and the software/systems that analyze the data extracted/generated.

The requirement under this PWS will cover a broad spectrum of development of operational systems requirements and integration, which includes conducting operational and functional systems testing, and fleet introduction that is contained in Section 4.0. Each task requires specific product deliverables that include but are not limited to hardware, firmware, trade analysis documentation, **cost analysis, financial planning**, test plans, test procedure documentation, test report documentation, training materials including computer based training as well as training documentation, operator user guides and operational concept documentation.

The engineering contractor shall technically test software being delivered by prime contractors, Navy developers, and the avionics third party contractors to determine specification compliance, system performance compliance, operational effectiveness, and interoperability with other platforms. This effort shall include an evaluation of the suitability of software and hardware for fleet introduction as well as the ability of that software to be inter-operable with other Navy platforms. The engineering contractor shall be responsible for advising NAVAIR on hardware design where such design affects the man-machine interface of the system. Products of this task will include but are not limited to trade-off analysis reports, analysis reports of system design, test procedures to validate specification compliance and performance compliance, operational usability reports, interoperability reports to include conducting actual operational analysis in the laboratory or aircraft environment.

The fleet introduction, as defined in this contract, supports the initial introduction of a new system or system program configuration. This effort shall include training the test community, the training community, and providing initial fleet orientation. Training materials shall also be provided to these communities.

The contractor shall provide all services required for continuous operation of the Software Production Facility (SPF). The SPF provides complete lifecycle services for the Navy platforms. In addition to supporting the development of future mission critical software programs, these facilities provide software maintenance and development environments offering specialized tools, archival processes, full backup capability, and disaster recovery. Additionally, service provided include hardware analysis, engineering, mission software programming, Simulation/Stimulation programming, web application development and website maintenance, documentation configuration management, software configuration management and library services.

3.0 APPLICABLE DOCUMENTS

The following documentation/information shall serve as guidelines for the performance of the tasks defined in this Statement of Work (SOW). The individual tasks are not necessarily governed by all of the following documents. Each task shall delineate which of the listed documents apply.

3.1 Military Specifications and Standards

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- a. NACADINST 3432.1A Operations Security
 - b. DoD 5220.22-M, National Industrial Security Program Operating Manual
 - c. Local Operational Security (OPSEC) Plan
 - d. Contract Security Classification Specification, DD Form 254
 - e. DoDD 8100.1, Global Information Grid (GIG) Overarching Policy
 - f. DoDD 8100.2, Use of Commercial Wireless Devices, Services, and Technologies in the DoD Global Information Grid (GIG)
 - g. DoDD 8500.1, Information Assurance
 - h. DoDI 5200.40, DoD Information Technology Security Certification And Accreditation Process (DITSCAP)
 - i. DoDI 8100.3, DoD Voice Networks
 - j. DoDI 8100.2 Information Assurance Implementation
 - k. DoDI 8520.2, Public Key Infrastructure (PKI) and Public Key (PK) Enabling
 - l. DoDI 8551.1, Ports, Protocols, and Services (PPSM)
 - m. DoDI 8580.1, Information Assurance in the Defense Acquisition
 - n. CJCSI 6211.02B, Defense Information System Network (DISN): Policy Responsibilities and Processes
 - o. CJCSI 6510.01, Information Assurance and Computer Network Defense
 - p. CJCSI 6250.01B, Satellite Communications
 - q. CJCSI 6212.01C, Interoperability and Supportability of Information Technology and National Security Systems
 - r. CJCSI 6212.01B, Policy for DoD Voice Networks
 - s. National Security Telecommunications and Information Systems Security Policy (NSTISSP) No. II, National Policy Governing Acquisition of IA and IA-Enable IT Products
 - t. OPNAVINST 5239.1B, Navy IA Programs
 - u. SECNAVINST 6239.3, DON Information Systems Security (INFOSEC)
 - v. Navy-Marine Corp Unclassified Trusted Network (UTN-Protect) Policy
 - w. MIL-STD-961D, Standard Practice for Defense Specifications
 - x. MIL-HDBK-61, Configuration Management Guide
 - y. NAVAIRINST 4130.1A, Naval Air Systems Command Configuration Management Manual
 - z. DOD-STD-2167A, Military Standard Defense System Software Development
 - aa. MIL-STD-470, Maintainability Program Requirements
 - bb. OPNAVINST 3710.7Q, NATOPS Flight and Operational Instruction
 - cc. NAVAIRINST 3960.4, Project Test Plan Policy and Process for Testing Air Vehicles Weapons and Installed Systems
 - dd. MIL-STD-498, Software Development and Documentation (For Guidance Only)
 - ee. NAVAIRINST 3960.4, Project Test Plan Policy and Process for Testing Air Vehicles, Weapons and Installed Systems
 - ff. EIA 12207.0, Industry Implementation of International Standard ISO/IEC 12207: 1995 (ISO/IEC 12207) Standard for Information Technology – Software Life Cycle Processes
 - gg. DOD-INS-8500.2, Information Assurance Implementation
 - hh. DOD 5.25.1M, DoD Directives System Procedures
 - ii. DOD 8000.1, Management of Information Resources and Information Technology
- Unless otherwise specified in the contract, the previously cited documents shall apply. The contract shall have precedence over this SOW and all referenced applicable documents. This SOW shall have precedence over all referenced applicable documents.

3.2 Information Assurance Clause

5252.204-9505 INFORMATION ASSURANCE AND PERSONNEL SECURITY REQUIREMENTS FOR ACCESSING GOVERNMENT INFORMATION TECHNOLOGY SYSTEMS (AUG 2007)

(a) Contractor personnel assigned to perform work under this contract may require access to Government IT Systems. Contractor personnel requiring access to Government IT Systems shall comply with AIR-7.2/7.4 Policy Memo 5510, "Information Technology (IT) Positions" dtd 17 May 2007 or latest version thereof, available at https://mynavair.navair.navy.mil/portal/server.pt/gateway/PTARGS_32_1757_856_0_-1_47/http%3B/pxcpo013.navair.navy.mil%3B7001/collab/docman/download/166654/0/0/IT%20POSITIONS.pdf;jsessionid=HWY1yvNVGR0k0ywnsyBbLs1MsZrZT7vk4lq6W1nMQhDQLy0Nyf09!316776776 as amended https://mynavair.navair.navy.mil/portal/server.pt/gateway/PTARGS_32_1757_856_0_-1_47/http%3B/pxcpo013.navair.navy.mil%3B7001/collab/docman/download/170926/0/0/IT%20Policy%20Amendment%206%20June%2007 or through the Procuring Contracting Officer (PCO). Prior to accessing any Government IT System, contractor personnel shall submit a completed Systems Authorization Access Request (SAAR), DD Form 2875, Annual Information Assurance (IA) training certificate, and initiate the requisite background investigation (or provide proof of a current background investigation) to the Contracting Officer's Representative (COR). For

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purposes of this clause, reference to the COR shall mean the PCO for contracts that do not have a designated COR. In order to maintain access to required systems, the contractor shall ensure completion of annual IA training, monitor expiration of requisite background investigations, and initiate re-investigations as required.

(b) Contractor personnel shall complete, sign and date Part I of the SAAR (available at https://infosec.navy.mil/pub/docs/documents/NETWARCOM/uad/dd2875_12jun2006.pdf [or provided as an attachment] and coordinate with the COR to designate in Part III, block 28c, the appropriate IT level designation (IT-1, IT-2, or IT-3). The completed SAAR and proof of a current background investigation is to be provided to the COR. The COR will review the SAAR submitted by the contractor, and if the COR concurs that the contractor requires the IT access designated, the COR will complete and sign Part II. When a background investigation is required, contractor personnel shall coordinate with Command Personnel Security, AIR-7.4, and follow the procedures as described at the NAVAIR website https://mynavair.navair.navy.mil/portal/server.pt/gateway/PTARGS_32_1757_856_0_-1_47/http%3B/pxcpc013.navair.navy.mil%3B7001/collab/docman/download/166652/0/0/IT%20Positions%20Process%20for%20Contractors.doc.

(c) The contractor shall provide separate Information Technology Personnel Security Reports to the COR and to NAVAIR Security in accordance with CDRL Number B008, DD form 1423. The report submitted to the COR shall not contain Social Security information that is required in the report submitted to NAVAIR Security. Both reports shall show that all contractor personnel meet the requirements for obtaining access to Government IT Systems, and that all requirements are verified and validated thereafter on an annual basis. All prime, subcontractor, consultants, and temporary employees shall be included in the reports. Revised reports shall be submitted when gains and/or losses of employees occur to ensure that all employees comply with these requirements prior to accessing Government IT Systems.

4.0 REQUIREMENTS

The requirements under this PBWS cover a broad spectrum of primary support for the Systems and Software Product Integration Division AIR 4.1.2 NAWCAD and in support of tasking by NAVAIR PMA activities.

4.1 Mission Analysis

The engineering contractor shall prepare a Mission Analysis that will define requirements for platforms and systems using contractor derived and NAVAIR provided data. The engineering contractor will build on work previously accomplished in providing a baseline of information for current and future air and ship platforms and associated weapon systems. A database of these requirements shall be developed along with the means to assess the impact of new equipment capabilities on meeting the requirements. It will include an evaluation of mission performance against current threat capabilities, as well as an assessment of the expected performance against projected threat capabilities. The document inputs shall be prepared in accordance with CDRL Number A0001, DD Form 1423.

4.1.1 Technical Planning for Hardware (H/W) and Software (S/W)

The engineering contractor shall support the development of hardware and software technical plan(s) based on contractor derived and NAVAIR provided information. The preparation of the required planning documents shall incorporate trade-off studies, engineering approach analyses, system implementation analyses, and recommendations for the technical development. The plan(s) shall include the definition of the specific integration/support system development engineering efforts/tasks and program requirements that should be included to meet the stated program objectives. These requirements shall consider, but not be limited to, the following areas:

4.1.1.1 Project Master Plan

This task shall require the engineering contractor to support the development of an integrated Project Master Plan which defines the major milestones, schedules and relevant information on funding requirements for the following program phases: concept development, detailed design, pre-production and production. For each phase of the project, the Project Master Plan shall include:

- a. Schedule – The schedule shall be organized by subsystem. The major tasks and task durations for the required activities must be defined.
- b. Milestones – For each major task activity, project milestones shall be included which correspond to tangible products or achievement levels.

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c. Funding – For each major task area, manpower and funding data required to achieve the final and intermediate milestones associated with that task shall be identified. The category of funding required shall also be defined. The Project Master Plan shall provide test-planning information relevant to testing conducted at the third party development contractor’s facilities in those cases where early involvement of the engineering contractor occurs. The Project Master Plan shall be prepared in accordance with CDRL Number A001, DD Form 1423.

4.1.1.2 System Development Plan

This task shall require the engineering contractor to support the development of an integrated System Development Plan for aircraft avionics and laboratory development efforts using contractor derived and NAVAIR provided data. This plan defines major milestones, detailed task descriptions, schedules, funding profiles, and technical approach/implementation for each program phase including:

- *Requirements Definition
- *System Development
- *System Integration
- *System Test and Validation

For each phase of the project, the System Development Plan shall include as a minimum:

- a. Milestones – For each major task activity there shall be a set of project milestones, presented chronologically that correspond to tangible projects or visible, demonstrable levels of achievement.
- b. Task Descriptions – For each milestone or deliverable product, there shall be defined series of tasks necessary to attain that product. Each task shall be fully described including interrelationships to other tasks, output of the task and projected manpower required to accomplish the task.
- c. Schedule – The schedule shall be organized such that it presents chronologically all of the tasks to be performed and the duration of each task.
- d. Costing – For each major task area, there shall be identified manpower levels and associated cost data.
- e. Technical Data – For the laboratory design/development or integration effort, the plan(s) shall include a definition of the proposed technical approach, technical requirements/constraints, and the results of technical studies or trade-offs that have been performed.

The Systems Development Plan shall be prepared in accordance with CDRL Number A001, DD Form 1423.

4.1.1.3 System Integration Plan

This task will require the engineering contractor to support the evaluation of government furnished information and to support the development of a System Integration Plan. The System Integration Plan defines the technical approach and requirements for performing the system integration functions for a specific platform, or project related effort. As such, it shall contain the integration requirements, schedule, dependencies, and support requirements for the accomplishment of all integration functions. The engineering contractor shall support the creation of trade-off studies, and analyses necessary to generate this plan.

The Systems Integration Plan shall be prepared in accordance with CDRL Number A001, DD Form 1423.

4.1.1.4 Integration Test and Evaluation Plan

This task shall require the engineering contractor to support the development of the Integration Test and Evaluation Plan which is the document that defines integration test and evaluation criteria for a specific subsystem. As such, it shall be based on specified requirements and contain integrated test and evaluation requirements and resource data (e.g., facilities lab time, flight time requirements, test range time, support resources, etc.) required to accomplish the objectives.

The Integration Test and Evaluation Plan shall be prepared in accordance with CDRL Number A001, DD Form 1423.

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4.1.1.5 System Operation/Maintenance Plan

This task shall require the engineering contractor to support development of the system Operation/Maintenance Plan for a specific system or platform. The plan shall contain the definition for how the system will be operated and/or maintained, and define guidelines for the system. In addition, the plan shall contain a description of the system and each system element and the support facilities available.

The System Operation/Maintenance Plan shall be prepared in accordance with CDRL Number A001, DD Form 1423.

4.1.1.6 System Simulation Plan

The engineering contractor shall support the development of an integrated System Simulation Plan that will identify all of the simulation requirements for the development and production phases of a specific program. This plan shall define the simulation test requirements to verify that the system will operate as specified with all existing systems and subsystems with which it was designed to interface.

The System Simulation Plan shall be prepared in accordance with CDRL Number A001, DD Form 1423.

4.2 Signal Processing Requirements

This task requires the engineering contractor to support engineering and scientific research in the areas of system processing requirements and analysis for current and advanced weapons systems, using contractor derived and NAVAIR supplied data. These requirements shall consider, but not be limited to, the following areas:

4.2.1 System Hardware Signal Processor Analysis

The engineering contractor shall support engineering and scientific analysis of current and advanced signal processors in the areas of impact assessment, sizing requirements, Commercial Off-the-Shelf (COTS) processor requirements, etc. to meet the threats of the year 2020 and beyond, using new and advanced sensors. This effort includes the definition of new processing requirements, architectures, software, processing capabilities, and requirements for new sensors.

The System Hardware Signal Processor Analysis shall be prepared in accordance with CDRL Number A001, DD Form 1423.

4.2.2 System Processing Design and Analysis

The engineering contractor shall provide engineering solutions in defining system requirements for acoustic and non-acoustic sensors within a weapon system. This shall address but not be limited to threat analysis, system accuracy, signal processing, spectral analysis, detection, line tracking, classification, target tracking, data fusion feedback and sensor control. This shall include computer simulation; with worst-case test data to ensure that algorithm, performance satisfies the requirements. The system shall be integrated within the weapon system to enhance mission performance through advanced man-machine interfaces, tactical decision aids, AI techniques and expert systems, directed toward optimal mission performance of search, localization, track, and attack.

The System Processing Design and Analysis shall be prepared in accordance with CDRL Number A001, DD Form 1423.

4.2.3 System Performance Requirements Analysis

The engineering contractor shall support engineering and scientific analysis efforts for the purpose of describing, modeling threat characteristics generation of operational scenarios and the corresponding theoretical performance capabilities of alternate system configuration to be used in the development of mission and system operational requirements. The effort shall include an assessment and prediction of the performance capabilities of existing system configurations and defining, assessing, and developing application, processing, and system requirements for advanced systems to meet the threat.

The System Performance Requirements Analysis shall be prepared in accordance with CDRL Number A001, DD Form 1423.

4.3 System Requirements Definition for Hardware and Software

The engineering contractor shall support the development of hardware and software requirements based on contractor derived and Navy provided information. The preparation of hardware and software requirements will incorporate trade-off studies, engineering approach analyses, system implementation analyses, and recommendations for technical development. The engineering contractor shall verify the hardware and software requirements meet the stated program objectives. These requirements shall consider, but not be limited to, the following areas:

4.3.1 System/Architecture/Functional Evaluation

This task shall require the engineering contractor to analyze an existing system, subsystem or equipment design and provide a comparative evaluation. Using source documentation, to be provided as Government Furnished Information (GFI) such as functional/operational/design requirements, detailed equipment specifications and system specifications, the engineering contractor shall analyze the defined system design and architecture to assure that it fulfills all of the governing requirements and that it is in compliance with the controlling specifications.

The System/Architecture/Functional Evaluation shall be prepared in accordance with CDRL Number A001, DD Form 1423.

4.3.2 Time Line Studies

Working from an Operational Requirements Document (ORD), Mission Needs Statement (MNS), Operational Concept Document (OCD), or/and Capability Procurement Document (CDP), the engineering contractor shall support mission time line analysis and construction of a detailed operational scenario for the system.

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The Time Line Studies shall be prepared in accordance with CDRL Number A001, DD Form 1423.

4.3.3 Operational Concept Document (OCD)

Working from an Operational Requirements Document (ORD), Mission Needs Statement (MNS), or White Papers generated by the Technical Working Groups (TWG), the engineering contractor shall support the development of an OCD. This document shall describe mission (primary and secondary), user requirements, operational and support environments, and system architecture.

The OCD shall be prepared in accordance with CDRL Number A001, DD Form 1423.

4.3.4 System Segment Specification (SSS)

Under this task the engineering contractor shall support the production or produce major updates to the SSS which describes the performance requirements for the system as a whole or portions to include hardware or software elements. The SSS for software elements (CSCI) shall address the computer program portion of a given digital processor system. For the hardware elements, the SSS shall address redundancy, reliability, maintainability, interoperability, reconfiguration, reduced/degraded mode, and operability. The SSS contains performance criteria in terms of operational, functional, and mathematical language.

The SSS shall be prepared in accordance with CDRL Number A001, DD Form 1423.

4.4 System Design/Development for H/W and S/W

The engineering contractor shall support the development of hardware and software system design requirements based on contractor derived and Navy provided information. The preparation of hardware and software system design requirements shall incorporate operational considerations, trade-off studies, engineering approach analyses, system implementation analyses, and recommendations for technical development. The engineering contractor shall verify the hardware and software system design requirements and meet the stated program objectives. These requirements shall consider, but not be limited to, the following areas:

4.4.1 Interface Design Description/Interface Requirements Specification (DD/IRS)

Under this task, the engineering contractor shall support the development or update of the IDD/IRS. The IDD/IRS shall identify software interfaces between peripheral equipments. The choice of which one to produce will be based on the detail required for the interface.

The IDD/IRS shall be prepared in accordance with CDRL Number A001, DD Form 1423.

4.4.2 Document Discrepancy Reports (DDRs)

Under this task the engineering contractor shall support the development of Document Discrepancy Reports. DDRs represent a change in requirements after the baseline documentation has been placed under configuration management. The DDR shall describe the reason for the changed followed by modified pages of the baseline document with the revisions clearly marked.

The DDRs shall be prepared in accordance with CDRL Number A001, DD Form 1423

4.4.3 System Segment Design Document (SSDD)

The engineering contractor shall support the development of a System Segment Design Document describing the software and hardware system/segment and it's operational and support environments. The document shall describe the organization of a system/segment as composed of Hardware Configuration Items (HWCIs), Computer Software Configuration Items (CSCIs), and manual operations.

The SSDD shall be prepared in accordance with CDRL Number A001, DD Form 1423.

4.4.4 Software Reference Manual (SRM)

Under this task, the engineering contractor shall support the development of a SRM. The SRM provides the operator with a detailed description of the functional requirements and system decisions necessary to use the software functions of the Operational Program in the particular hardware suite. The intent of this manual is to provide the novice, as well as the experienced operator, with a complete description of the software functions unique to the platform. A detailed explanation of any cross-station interaction, such as occurs when another operator has control of the function is also addressed in this manual. The provisions of the SRM shall be such that great attention is devoted to the description of a particular function and, where applicable, the function is summarized using a "quick look," positive flow diagram.

The SRM for a platform may utilize appendices as a device for providing data concerning those modules of the operational software, which do not change with each software issue. For example, a detailed discussion of signal flow for the subsystems under the control of a particular sensor operator will be contained in the appendix.

Other considerations to be included in the SRM are:

a. The SRM in not intended to usurp the authority of the NATOPS manual. The NATOPS manual should always be referenced first for any question relating to the platform weapons system.

b. The interpretation and entry of sensor data into the program is to be designed in terms of operator responsibility according to the capability of the sensor suite.

c. Description of each manipulative function should be described to allow the operator comprehension of the versatility available to him.

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The SRM shall be prepared in accordance with CDRL Number A002, DD Form 1423.

4.4.5 System Operators Guide (ex. IFH)

The engineering contractor shall support the development of a document that provides the operator with a quick description and data flow of the functional requirements and system decisions necessary to use the software functions of the operational program while in-flight. The intent of this manual is to provide the novice, as well as the experienced operator, with a quick reference of all software functions.

The Systems Operators Guide shall be prepared in accordance with CDRL Number A002, DD Form 1423.

4.5 Software Development

The engineering contractor shall participate as a member of the government team in the following phases of software development: system resource analysis, software requirements analysis, software definition, code and unit test, integration test, product delivery, independent test, software quality assurance and software configuration management.

4.5.1 Documentation and Software Configuration Management (CM)

CM documentation consists of plans and procedures, system design, and user documentation. The engineering contractor shall ensure that these documents reflect all approved procedures and practices. These documents shall be under configuration control and updated in the same manner as baseline technical documents.

The CM documentation shall be prepared in accordance with CDRL Number A001, DD Form 1423.

4.5.1.1 The engineering contractor shall establish and maintain functional, allocated, and product baselines using the following tasks in order to provide the various projects with comprehensive CM:

a. Configuration Identification and Configuration Control

b. Configuration Status Accounting and Configuration Audits

4.5.1.2 The engineering contractor shall establish internal baselines representing the approved configuration of each program. The internal baselines shall be established to define departure points for changes in performance, methodology, and related technical requirements.

4.5.1.3 The engineering contractor shall administer and change control of program baselines in accordance with the applicable documents provided by the Government. Configuration control efforts involve monitoring program development, identifying and tracking program changes, recording and tracking the usage of data media, backing up data media, protecting data media from improper use, coordinating data media reproduction, establishing and maintaining various logs, and reviewing and generating configuration control procedure guides.

4.5.1.4 The engineering contractor shall maintain the integrity of data identified for configuration control so that delivered programs may be recreated precisely. Performances of these tasks require knowledge of facility operations, systems, and configuration management procedures, as well as, familiarity with automated change and configuration control systems. The contractor shall attend/monitor formal meetings schedules by the projects.

4.5.1.5 The engineering contractor shall exercise configuration control of all baselines by serving as the focal point for the collection of change status data. The contractor shall be accountable for all technical data documented through baseline change forms for and in support of the projects and production facilities. Baseline change forms are used by the projects to provide a systematic, logical reporting and tracking system for problems and proposed changes.

4.5.1.6 The engineering contractor shall maintain Configuration Status Accounting (CSA) systems for all projects. The systems shall support status accounting requirements established through individual CM plans and procedures. The CM CSA systems are the means through which configuration items (CIs) are recorded and reported to project and functional managers. Specific CSA tasks include:

a. Update and maintenance of CM CSA systems.

b. Receipt and control of on-line forms data.

c. Generation of CSA reports.

d. Maintenance of CSA security.

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- e. Provide instruction to support personnel on Software Problem Report (SPR) and Trouble Report (TR) tracking systems.

Configuration Audits are the responsibility of the Government Quality Assurance team. A Functional Configuration Audit (FCA) validates that a CI's development has been satisfactorily completed and that the CI has achieved the performance and functional characteristics specified in the functional and allocated identification. A physical Configuration Audit (PCA) assures that the as-built configuration of a designated CI conforms to the technical documentation that defines it.

4.5.1.7 The engineering contractor shall perform or participate in configuration audits to verify compliance with CM and Government Quality Assurance requirements. The contractor shall support FCAs and PCAs by identifying to the Government Quality Assurance team all documentation, drawings, and configuration control files that reflect the Functional, Allocated, and Product baselines for a designated CI.

4.5.1.8 The Engineering contractor shall provide version control for software development products built by Software Production Facility (SPF) customers utilizing the Navy mandated CM suite of tools. Significant experience utilizing tools such as CM Synergy, ClearCase, ClearQuest, Concurrent Version System (CVS), Change Synergy and DOORS is required. The engineering contractor shall integrate and merge source code into baseline software. The engineering contractor shall maintain the integrity of baseline software. The engineering contractor shall ensure repeatability of software compiles and validate them before delivery to a U.S. government. The engineering contractor shall provide support for compiling Ada code. The engineering contractor shall create, update, & maintain SCM procedures. The engineering contractor shall ensure that software developers have the appropriate environment necessary for compiling Ada code.

4.5.2 Data Management

Data Management (DM) includes tasks exercised to manage the products generated for Fleet Issue Program Packages. The engineering contractor shall perform DM tasks to ensure the tractability and quality of various project's products.

4.5.2.1 Data Management Plans

The contractor shall generate DM plans for all projects. The engineering contractor shall identify current DM issues and propose procedures for managing these issues in the monthly progress and status report in accordance with CDRL A001.

4.5.2.2 Software Product Validation

The engineering contractor shall receive and validate software products such as tactical mission, simulation, and acoustic software products prior to the release to the fleet. The engineering contractor shall follow procedures for validation, production, and distribution of these products as described in the Project CM plans and procedures documentation.

4.5.2.3 Engineering Release Configuration

The engineering contractor shall follow established engineering release practices to issue configuration documentation to user activities and to authorize the use of configuration documentation associated with an approved configuration. The contractor shall maintain current and historical engineering release information for all configuration parts in accordance with CDRL A001.

4.5.2.4 CM Records File

The engineering contractor shall maintain an electronic copy of the CM Records file at the contractor site. The file shall be available to the Government within 24 hours prior notice.

4.5.2.5 Off-site Security Storage

The engineering contractor shall provide off-site security storage where adequate storage may not be available for baseline products consisting of requirements, design, user documents, and electronic media. Off-site storage provides for back-up disaster recovery. Material may be classified through SECRET.

4.5.2.6 CDRL Tracking

The engineering contractor shall provide automated status tracking for program CDRL items. For each assigned CDRL tracking task, the contractor shall provide current status for CDRL data and identify delinquent CDRL data items to the Navy.

4.5.3 Process Improvement

The engineering contractor shall actively participate in process improvement initiatives.

4.5.4 Software Production Facilities (SPF)

The engineering contractor shall support the installation, maintenance, and administration of the Facilities laboratory including analysis, studies, program generation, and integration, test and validation, support and administration of systems, documentation, problem reporting, and tracking the help desk. The engineering contractor shall be responsible for installation, maintenance, and administration of Facilities computer hardware and software systems

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including, but not limited to Solaris UNIX, Aonix UNIX, SunOS, Linux, Linuxworks, LynxOS, Microsoft DOS, Microsoft Windows, mass-storage devices and local area networks (LANs). The engineering contractor will be responsible for regular maintenance of all facilities equipment including the computers, networks, drives, memory devices, platform specific hardware, etc. The engineering contractor will perform preventive maintenance on equipment including vacuuming keyboards, cleaning monitors, vacuuming fans. The Government will provide new tools and major upgrades to COTS tools as necessary to support program development services and deliveries. The contractor shall be required to provide minor equipment repairs, hardware calibration, or adjustments when needed to continue uninterrupted operations and meet schedule constraints. Additionally, the contractor shall provide commercial software products to enhance performance or supplement existing tools.

The contractor shall perform system and network monitoring. If a system is offline the contractor must notify a system administrator. The contractor is required to notify the TOM prior to making any repairs or purchases. In the case of an emergency or "off hours" repair, the contractor shall provide information to the TOM at the start of the next business day.

4.5.4.1 Software Development Environment (SDE) Support

The engineering contractor shall provide software and hardware support needed in order to modify of the software development environments (SDEs) to correct problems or incorporate enhancements. The engineering contractor shall modify SDE Systems; utilities support packages, engineering tools, project management aids, and databases to correct operational deficiencies in response to problem reports. The SDE's engineers via the facilities CCB prior to problem correction must approve the engineering contractor analysis, and appropriate baseline change forms. All products must conform to the facility production procedures including requirements, design, test, and validation methods.

4.5.4.2 SDE Requirements

The following requirements apply to all products developed, delivered by the engineering contractor, or acquired as commercial off-the-shelf (COTS) items for the SDEs.

- a. Software shall be developed using structured top-down methods in C, C++, SQL, Ada, or the UNIX Command Language using the UNIX SDE on the Facilities computers.
- b. Program design shall stress efficient execution speed and minimization of central memory storage.
- c. Any deviation from the existing tool set must have prior approval from the TOM. Unique tool(s) developed or used under this contract shall be delivered to NAWCAD upon completion of the deliverable.
- d. Enhancements shall be integrated into the existing SDE command path.

4.5.4.3 SDE Maintenance

The engineering contractor shall support in the maintenance of the various utility programs that exist on the SDE network, and support the development and installation of new software in Oracle, Ada, or C on the network. The engineering contractor shall analyze all of the facilities systems that may reside on tape, disk, cassette, or hardcopy. The engineering contractor must ensure that SPF network backups complete properly, and must send monthly backups for off-site storage. The engineering contractor shall control and duplicate the archives. The SDE Maintenance shall be prepared in accordance with CDRL Number A001, DD Form 1423.

4.5.4.4 SDE Operation

The engineering contractor shall support the government in the operation of the SDE software generation and production facilities equipment. The engineering contractor is responsible for lab entry control and escorting visitors as required. The engineering contractor is required to open and close the SPF. The SPF is open M-F 0600-1800. The lab operators must be available by page and available to come in 24/7. The government will provide the page. If the page is lost or stolen, the engineering contractor must repay the government.

4.5.4.5 SDE Troubleshooting

The engineering contractor shall support the government in the conduct of functional and performance analysis of problems encountered during the operation of the various programs and production facilities. The contractor shall determine the cause of production problems and recommend solutions or work around.

4.5.4.6 Fleet Maintenance Training Program

The engineering contractor shall support in the development of fleet maintenance training programs and provide instruction on laboratory hardware/software operations. This training may involve any aspect of the facilities. The training shall include practical examples and cover known system problems. The curriculum shall be subject to NAWCAD approval. The NAWCAD will specify duration and location of the training in each delivery order.

4.5.4.7 Laboratory Engineering Support

A major aspect of the role assigned to the NAWCAD competencies includes the responsibility for the concept formulation, planning, design, specification, implementation, validation, transition, and support of Navy developmental prototype and production systems. Generally, this responsibility requires the following: participation in system design activities, design and development of avionics and related laboratories, definition of requirements and the development, validation, and operation of airborne, shipboard, and land based systems and subsystems, and conducting research in engineering technology.

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4.5.4.8 Laboratory Development and Control Plan Analysis

The engineering contractor shall support the analysis and assessment of development and control plans as well as accomplishment against planned goals. This shall include applicability/assessment of conformance to applicable standards and development agency guidance/policies. Management control exemplified by development build strategy and phase definition, scheduled/milestones, management organization and operations, development control policies and procedures, documentation, resources and facilities activity network, and risk management environment.

4.5.4.9 Laboratory Requirements Analysis

The engineering contractor shall provide analysis of front-end requirements documents, System Operational/Requirements Specifications, Interface/Protocol Specifications, Systems Description Documents, System/Segment Specifications/Design Documents, and concept/development philosophy documents. The Laboratory Requirements Analysis shall be prepared in accordance with CDRL Number A001, DD Form 1423.

4.5.4.10 Analysis Task

The content analysis shall cover system implications or issues and shall address technical completeness, thoroughness, consistency, traceability, soundness, adequacy, risk-benefit compliance, and traceability. The output of this task element will be software or engineering documents as specified for the particular project/program utilizing this task. The contractor shall prepare the original version of all such documents and submit in automated form. The following Items exemplify the topics typically addressed as part of this analysis task.

- a. System loading requirements (e.g. throughout, degraded mode reconfiguration, involved processors, interfaces, security, inter/intra-system, and subsystem communications).
- b. System constraints (e.g. equipment and hardware, standardization and commonality, interoperability requirements, languages, operating system/environment, reserve requirements, and facilities/resources).
- c. Software Characteristics (e.g. scoping, risk areas and assessment, performance, productivity, reliability, maintainability, integrity, security, traceability, sizing timing and high level design assessment feasibility).
- d. Software design and performance (e.g. algorithm evaluation, numerical analyses, interrupt processing, structured design methodology, data structures and organization, display processing, distributed parallel processing, I/O interfaces and protocols, and processing allocations).
- e. High-level system architecture/analysis (e.g. functional allocation, centralized versus distributed processing, parallel processing, Open/closed architecture, control versus data flow, common data, bus organization, storage and memory devices, and growth requirements).

4.5.5 Inventory Control

The engineering contractor is required to maintain the SPF hardware inventory. The inventory list contains the SPF number, the PAXID number if applicable, the Manufacturer, Serial Number, and the location of the equipment. The list should be updated as new hardware is delivered.

The engineering contractor is required to excess equipment that is no longer required for the lab. The contractor must fill out Excess Equipment form, and bring it to the custodian for signature. Once signed the engineering contractor is required to bring the equipment to shipping for disposal. The lab operator should maintain all of the excess equipment forms. The engineering contractor must update the equipment list when equipment is moved to a new location.

4.5.6 Maintain Media Library

The Laboratory Operator(s) must maintain the media library. This included verifying customer access to the media. Create media as required by customers. Media includes Floppies, DVDs, DASDs, MOs, CDs, and Zip disks. The engineering contractor must ensure adequate supply of consumables for the SPF. The engineering contractor shall maintain an inventory of consumables. Consumables include but are not limited to paper, printer cartridges, CDRs, DVD-Rs, Floppies. The engineering contractor must notify the government when supplies are low or follow approved process to purchase items.

4.5.7 Help Desk Operations

The Help Desk is the first line of customer support for the SPF. The engineering contractor is required to enter, track, and update customer trouble-tickets. The engineering contractor is required to fix customer's problem, or notify a system administrator if he/she cannot fix it. The basic problems the engineering contractor is required to fix are account creations, password resets, and file transfers. The engineering contractor is required to retrieve files from backup tapes upon customer request. The help desk operator is also required to assist System Administrators as needed. The help desk operator is required to perform basic troubleshooting, building, configure and install Wintel and UNIX server/workstation hardware based on laboratory processes. The engineering contractor is responsible for connecting new systems, making new cables, running cable, and labeling cables.

4.6 Software Product Deliverables

The contractor shall submit complete designs, installation, implementation plans and test procedures. The Software Product Deliverables shall be prepared in accordance with CDRL Number A001, DD Form 1423.

4.6.1 Software Requirement Specification (SRS)

Under this task the engineering contractor shall write a Software Requirement Specification. The SRS shall describe

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the functional requirements and allocate those to functions.

The Software Requirements Specification shall be prepared in accordance with CDRL Number A001, DD Form 1423.

4.6.2 Software Design Description (SDD)

The engineering contractor shall write a Software Design Description (SDD) to provide software architecture, component definition, and detailed software requirements allocated to each software component.

The SDD shall be prepared in accordance with CDRL Number A001, DD Form 1423

4.6.3 Database Design Document

The engineering contractor shall write a Database Design Document (DBDD) to provide a description of all data stored in one or more computerized files in a manner that can be accessed by users and computer programs via a database management system (DBMS)

The Database Design Document shall be prepared in accordance with CDRL Number A001, DD Form 1423.

4.6.3 Build Description Document

The contractor will provide a detailed process of how to make a working copy of the software product. The process must have all the source code files, all libraries, any middleware, directory trees, and any other options that must be included to successfully produce the product.

The Build Description Document shall be prepared in accordance with CDRL Number A001, DD Form 1423.

4.6.4 Software Status Report

This task shall summarize the status of the software development within the engineering contractor's purview. It shall be prepared in accordance with CDRL A001 and shall report the proceedings of any periodic software status review meetings, and provides a record of progress, problems encountered, and management actions taken or assigned for resolution and shall include the following sections:

4.6.4.1 Software Requirements Analysis Status

This section shall provide a detailed depiction of the current software requirements analysis status for each of the Computer Software Configuration Items (CSCIs). Major events which have occurred within the reporting period, including milestones attained or missed, problems encountered and problems resolved, and a synopsis of the present status of the software requirements analysis shall be presented. If it is anticipated that a scheduled event will be late, an explanation shall be provided as to the effect of the slop in schedule on the completion of the project, and steps being taken to remedy schedule delay(s). The software requirements analysis status of each CSCI shall be quantified with metrics. This data shall be presented in a form which shows the actual versus planned complete to date.

The Software Requirement Analysis Status shall be prepared in accordance with CDRL Number A001, DD Form 1423.

4.6.4.2 Program Design Status

This section shall provide a detailed depiction of the current program design status for each of the CSCIs. Major events that have occurred within the reporting period, including milestones attained or missed, problems encountered and problems resolved, and a synopsis of the present status of the design shall be presented. If it is anticipated that a scheduled event will be late, an explanation shall be provided as to the effect of the slip in schedule on the completion of the project, and steps being taken to remedy schedule delay(s). The design status of each CSCI shall be quantified with metrics. This data shall be presented in a form that shows the actual versus planned complete to date.

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The Program Design Status shall be prepared in accordance with CDRL Number A001, DD Form 1423.

4.6.4.3 Coding Status

This section shall provide a detailed depiction of the current coding status for each of the CSCIs. Major events that have occurred within the reporting period, including milestones attained or missed, problems encountered and problems resolved, and a synopsis of the present status of coding shall be presented. If it is anticipated that a scheduled event will be late, an explanation shall be provided as to the effect of the slip in schedule on the completion of the project, and steps being taken to remedy schedule delay(s). The coding status of each CSCI shall be quantified with metrics. This data shall be presented in a form that shows the actual versus planned complete to date.

The Coding Status shall be prepared in accordance with CDRL Number A001, DD Form 1423.

4.6.4.4 Software Integration Status

A description of the current integration status for each CSCI, as well as a description of problems, shall be included within this section. This section shall identify slips, impact upon overall schedule, and proposed solutions. Quantified integration status of each CSCI shall be presented in a form which shows the actual versus planned percent complete to date.

The Software Integration Status shall be prepared in accordance with CDRL Number A001, DD Form 1423.

4.6.4.5 Software Testing Status

All engineering contractor conducted testing shall be documented in this section. For special tests, such as algorithm tests, a synopsis of its content, schedule, and results shall be indicated. These tests shall be tracked via this report from the inception of the test to its completion. Additionally, integration testing, qualification testing, and activities related to preparation for these tests shall be documented. A summary of the testing performed and an assessment of the testing results (successful, unsuccessful) shall be included. For all qualification tests, Software Problem Reports (SPRs) and test progress metrics shall be provided to show a detailed picture of the testing progress. Scheduled milestones which have been attained or missed, new problems encountered, and old problems resolved shall be documented. If it is anticipated that a scheduled event will be late, an explanation shall be provided as to the effect of the slip in schedule on the completion of the project, and steps being taken to remedy schedule delay(s).

The Software Testing Status shall be prepared in accordance with CDRL Number A001, DD Form 1423.

4.6.4.6 Problems/Risks/Concerns

Any problems, risks, and concerns, which occur during the reporting period, shall be documented in this section. This shall include any issues related to non-software items, which have an impact (possible or probable) on software development. All items documented here shall include (if possible) a problem analysis, risk assessment, and proposed

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solution or alternative.

The Problem/Risks/Concerns shall be prepared in accordance with CDRL Number A001, DD Form 1423.

4.6.4.7 Software Configuration Management (SCM) Status

This section shall include any activities relating to a CCB. These activities shall consist of any CCB actions performed by the engineering contractor and any other CM activities that have occurred during the reporting period. Items to be reported include:

- a. Identification of activities performed within the reporting period
- b. Summary of activities planned for the next reporting period
- c. Resources required for the next reporting period

The SCM Status shall be prepared in accordance with CDRL Number A001, DD Form 1423.

4.6.4.8 Facilities Utilization

This section shall present a status of all facilities used to support each CSCI program development. Details to be presented include: time (in hours) requested, allocated, and used. Any problems or concerns relating to hardware (i.e. Government Furnished Equipment (GFE), Contractor Furnished Equipment (CFE) delivery /integration) or software tools shall also be documented in this section.

The Facilities Utilization shall be prepared in accordance with CDRL Number A001, DD Form 1423.

4.6.4.9 Schedules

This section shall reinforce the corresponding status sections by the inclusion of visual milestone charts/schedules. Any tasks that are currently behind schedule (or have anticipated schedule changes) shall be visually represented as such, and a milestone indicating the expected new completion data shall be presented.

The Schedules shall be prepared in accordance with CDRL Number A001, DD Form 1423.

4.6.4.10 Deliverables

All deliverables contractually required in the reporting period shall be listed in this section whether they have been delivered or not. Deliverables refer to software programs and documentation and shall be referenced by CDRL number. Where a deliverable has slipped, a new deliverable date shall be indicated.

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4.6.5 Version Description Document (VDD)/Software Product Specification (SPS).

The engineering contractor shall prepare and/or update documentation which identifies the software being delivered, provides a system overview or summary of the changes, inventories the deliverables, provides installation instructions and describes known problems and/or errors. Build instructions, including the software engineering environment shall be included.

The VDD/SPS shall be prepared in accordance with CDRL Number A001, DD Form 1423.

4.6.6 Program Change Document (PCD)

The engineering contractor shall prepare and/or update program change documentation using the validated software documentation for a specified weapons system software program. The engineering contractor shall generate a new PCD or shall modify an existing PCD in the format of any applicable MIL-STD.

The PCD shall be prepared in accordance with CDRL Number A001, DD Form 1423.

4.6.7 Operational Advisory Document (OAD)

The engineering contractor shall review documents reflecting the proposed or as built configuration of systems developed by third party prime contractor. The documents will consist of SRSs, SDDs, IRSs, Interface Control Documents (ICDs) and similar documents addressed under contracts the Navy controls for equipment modifications and upgrades.

The OAD shall be prepared in accordance with CDRL Number A001, DD Form 1423.

4.6.8 Software Development Plan

The contractor will comply with the government provided Software Development Plan (SDP).

4.7 Test and Evaluation Plans and Reports

The engineering contractor shall develop new and/or update test plans and procedures, which will be used in test facilities at the development contractor or government site.

The Test and Evaluation Plans and Reports shall be prepared in accordance with CDRL Number A001, DD form 1423.

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4.7.1 Functional Level Test Procedures

This document will contain the step-by-step operations that verify each system and/or software function available to program operators. These procedures will be delivered in

preliminary and final versions. The engineering contractor will use the applicable design and performance specifications and existing test procedures as available to generate this document.

The Functional Level Test Procedures shall be prepared in accordance with CDRL Number A001, DD Form 1423.

4.7.2 Segment Level Test Procedures

The engineering contractor shall write Segment Level Test Procedures, which may include Segment and/or Interface Test Procedures. These documents will contain the step by step operations that verify each system or software function and/or sufficient scenarios necessary to verify full system interaction of all software subsystems. These procedures will be delivered in preliminary and final versions.

The Segment Level Test Procedures shall be prepared in accordance with CDRL Number A001, DD Form 1423.

4.7.3 System Level Test Procedures

The engineering contractor shall write the System Level Test Procedures. This document will contain the steps required to verify that the system works as intended and it is ready for operational flight testing. These procedures will be delivered in preliminary and final versions. The engineering contractor will use the applicable design and performance specifications and existing test procedures as available to generate this document.

The System Level Test Procedures shall be prepared in accordance with CDRL Number A001, DD Form 1423.

4.7.4 Laboratory Testing/Reporting

The system software and hardware will first be tested in a laboratory facility at the NAWCAD or third party development contractor's site using simulators to generate the necessary interfaces thereby approximating the aircraft operational environment. Because of the laboratory's controlled environment, the program testing must make maximum use of simulation capabilities available. Significant to this testing will be the station-to-station interaction under heavy transaction loads. The engineering contractor shall perform testing using procedures provided by the Navy either independently or as part of a team. When there is joint developer/Navy testing at a third party contractor's site, the engineering contractor shall cooperate with the third party development contractor and follow the third party development/integration contractor's facility schedule request and usage procedures. When Navy laboratories are used, the engineering contractor shall schedule the use of required facilities for test performance with the facility manager. Regardless of test locale, the engineering contractor shall maintain a record of the test and retest results, and provide testing status at CCB meetings to track implementation discrepancies.

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Laboratory Reports shall be prepared in accordance with CDRL Number A001, DD Form 1423.

4.7.5 Aircraft Ground Debug Testing/Reporting

The engineering contractor shall perform ground debug to test the aircraft avionics, sensors, computer operation and interfaces not available in the laboratory facility. In this environment, dynamic operations and data link communications will also be tested. The engineering contractor shall request scheduling for the use of required facilities and ground debug resources for test performance. The engineering contractor shall record the test and retest results and provide status at CCB meetings to track implementation discrepancies.

Aircraft Ground Debug Reports shall be prepared in accordance with CDRL Number A001, DD Form 1423

4.7.2 Flight Testing/Reporting

To test the program in a real-world environment and to fully test interfaces not available in the laboratory facility, the engineering contractor shall test the program under operational flights conditions. In this environment, dynamic operations and data link communications will be tested. The engineering contractor shall request scheduling for the use of required facilities and flight test resources for test performance. The engineering contractor shall record the test results and provide status at CCB meetings to track implementation discrepancies.

Flight Reports shall be prepared in accordance with CDRL Number A001, DD Form 1423.

4.7.3 System Problem Report (SPR) Reviews.

The engineering contractor shall review and evaluate SPR's submitted against a system and/or software product. This review includes, but is not limited to, and evaluation of the SPR's validity, accuracy, and program impact. This evaluation will be used at CCB meetings, or their equivalent, to determine what action is required to resolve the problem. The engineering contractor shall attend those CCB meetings as designated by the COR.

SPR Reviews shall be prepared in accordance with CDRL Number A001, DD Form 1423.

4.7.4 Software Change Request (SCR)

The engineering contractor shall review and evaluate SCR's assigned by the CCB. This review includes an evaluation of completeness and technical accuracy to ensure the SCR fulfills the requirements to which it was written. Approved SCR's shall be used to assist the engineering contractor in ascertaining the level of detail and the amount of effort required to prepare test documents and conduct testing.

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SCR Reports shall be prepared in accordance with CDRL Number A001, DD Form 1423

4.7.5 System Problem Report (SPR)

The engineering contractor shall write an SPR for each discrepancy between specification and program operation found during all levels of testing. When these SPR's have been resolved by the system and/or software developer, the engineering contractor shall retest to verify that the problem is corrected. SPR's generated by the fleet shall be verified by the engineering contractor against the same program build. As these errors are corrected, the new build shall be retested by the engineering contractor.

SPR Reports shall be prepared in accordance with CDRL Number A001, DD Form 1423.

4.7.10 Fleet Trouble Report (TR) Review/Reports

The engineering contractor shall review and provide a written report for each Fleet TR submitted. TR's generated by the fleet shall be verified by the engineering contractor against the same program build. The engineering contractor shall present these TRs to the fleet Software Operational Advisory Group (SOAG) and document duplication procedures when necessary. When the system and/or software developer has resolved TR's, the engineering contractor shall retest to verify that the problem is corrected.

Fleet TR Reports shall be prepared in accordance with CDRL Number A001, DD Form 1423.

4.7.11 Laboratory/Aircraft Daily Test Report

The engineering contractor shall submit a Test Summary that details the testing performed on a particular laboratory period or aircraft event. The summary shall describe significant accomplishments/problems.

Laboratory/Aircraft Daily Test Reports shall be prepared in accordance with CDRL Number A001, DD Form 1423.

4.8 Fleet Introductions and Fleet Support

4.8.1 Training Material/Software

The engineering contractor shall support initial fleet introduction training for new systems and/or system program configurations. Training materials shall be developed and provided for use in instruction to the operational test community, the fleet and the training community. The form of training material may include, but not limited to, Web based HTML technical instructions and Computer Based Training (CBT). Special training courses shall be provided

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as required to assist in the fleet acceptance of newly developed systems and/or systems software.

Training Material Reports shall be prepared in accordance with CDRL Number A0002, DD Form 1423.

4.8.2 Conduct Fleet Training

This task shall include initial training of the testing community, initial fleet orientation, and full initial fleet training. Travel will be required in support of this task. Travel within the United States and Foreign countries may be required.

4.9 PROGRAM FINANCIAL SUPPORT

THIS TASK INCLUDES EXTRACTING FINANCIAL DATA TO TRACK AND REPORT PROGRAM/PROJECT STATUS. ANALYZE FINANCIAL PLANNING DATA AND WORKFORCE REQUIREMENTS. DEVELOP PROCESSES AND PROCEDURES TO ENSURE ACCURACY AND COMPLETENESS OF FINANCIAL TRANSACTIONS.

5.0 HARDWARE AND SOFTWARE INTEGRATION FACILITIES

THE HARDWARE AND SOFTWARE INTEGRATION FACILITIES & SOFTWARE PRODUCTION FACILITY (SPF) FACILITIES WILL BE AVAILABLE TO SUPPORT THE INTEGRATION OF THE AIRCRAFT ACOUSTIC AND NON ACOUSTIC SENSOR SUBSYSTEMS, ONBOARD SYSTEMS, AND ANCILLARY SYSTEMS WITH THE PLATFORM TACTICAL/MISSION COMPUTERS. THE INTEGRATION FACILITIES PROVIDE THE CAPABILITY TO OPERATE VARIOUS VERSIONS (INCLUDING FOREIGN MILITARY SALES) OF SOFTWARE IN SUPPORT OF THE VARIOUS SENSOR STATIONS (ACOUSTICS, ESM, IFF, RADAR, MAD), ONBOARD SYSTEMS (SEARCH STORES, WEAPONS, COMMUNICATIONS, AND NAVIGATION), AND ANCILLARY SYSTEMS (NETWORK CENTRIC WARFARE SUITE, SIMULATION SUITE, AND SPECIALIZED TEST SETS) ENABLING TESTING AND VERIFICATION OF THE HARDWARE AND SOFTWARE INTERFACE BETWEEN SYSTEMS. ON LINE CONNECTIVITY BETWEEN THE INTEGRATION FACILITIES AND THE SPF FOR LOADING AIRCRAFT SOFTWARE INTO THE TARGET HOSTS IN THE INTEGRATION FACILITY IS ALSO AVAILABLE. THE SPF PROVIDES THE PROGRAMMING ENVIRONMENT, CONFIGURATION MANAGEMENT CENTER, AND DOCUMENTATION MANAGEMENT CENTER FOR THE VARIOUS AIRCRAFT CONFIGURATIONS AND WORKSTATIONS WITHIN THE FACILITIES. DURING SOME INTEGRATION TESTING ACTIVITIES, THE ENGINEERING CONTRACTOR WILL WORK WITH THE DEVELOPMENT CONTRACTOR IN THE USE OF THIS EQUIPMENT.

5.1 INTEGRATION FACILITY DEVELOPMENT AND UPGRADE

THE LABORATORY FACILITIES (EX:PHIC) LOCATED AT NAWCAD ARE CONSTANTLY UNDERGOING RENOVATION AND UPDATING TO ENSURE THAT THE BEST POSSIBLE CAPABILITY IS MADE AVAILABLE FOR PURPOSES OF SYSTEM/SUBSYSTEM DESIGN, DEVELOPMENT, INTEGRATION, TEST AND EVALUATION, AND TRAINING AND TO ENSURE THAT EACH AND EVERY AVIONICS UPGRADE AND MODIFICATION CAN BE ANALYZED AND TESTED FOR PROPER IMPLEMENTATION. THE ENGINEERING CONTRACTOR SHALL PROVIDE ENGINEERING AND TECHNICAL SUPPORT TOWARD THE DEVELOPMENT OF THESE FACILITIES. THIS EFFORT MAY INCLUDE, BUT IS NOT LIMITED TO PLANNING, DESIGN AND FABRICATION, LABORATORY ARCHITECTURE, ANALYSES STUDIES, AND PROVIDING VARIOUS INTERFACE DESIGN AND IMPLEMENTATION RECOMMENDATIONS.

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5.2 FACILITY OPERATOR/USER MANUAL

THIS TASK WILL REQUIRE THE ENGINEERING CONTRACTOR TO WRITE THE OPERATOR/USER MANUAL FOR A LABORATORY OR INTEGRATION SUPPORT SYSTEM/EQUIPMENT. THE MANUAL SHALL PROVIDE A DESCRIPTION OF HOW THE SYSTEM IS TO BE OPERATED. THIS WILL INCLUDE TURN-ON/TURN-OFF PROCEDURES, PROGRAM LOAD PROCEDURES, SYSTEM INITIALIZATION, LOAD/DATA SOURCES, DESCRIPTION OF ALL OPERATOR CONTROLS, AND A DEFINITION OF ALL MAN-MACHINE INTERACTIONS. THE USER PORTION OF THE MANUAL IS MEANT AS A PRIMER AND GUIDE FOR SYSTEM USERS. THE MANUAL WILL ASSUME THE SYSTEM IS ON-LINE AND OPERATIONAL AND LEAD A USER THROUGH ALL OF THE CAPABILITIES OF THE SYSTEM. THE OPERATION AND DESCRIPTION OF THE MAN-MACHINE INTERFACE WILL BE STRESSED; HOWEVER, OVERALL SYSTEM CAPABILITIES WILL BE ADDRESSED.

THE FACILITY OPERATOR/USER MANUAL SHALL BE PREPARED IN ACCORDANCE WITH CDRL NUMBER A002, DD FORM 1423.

5.3 TEST BED AIRCRAFT

THE AIRCRAFT WILL BE UTILIZED AS A TEST BED FOR AIRCRAFT GROUND DEBUG AND SYSTEM LEVEL FLIGHT-TESTING. AIRCRAFT GROUND DEBUG AND SYSTEM LEVEL FLIGHT TEST SCHEDULING WILL BE SUBJECT TO AIRCRAFT AVAILABILITY.

5.4 TECHNICAL LIBRARY OPERATION

THE TECHNICAL LIBRARY CONTAINS THE MOST COMPLETE REPOSITORY OF PROJECTS DOCUMENTATION IN EXISTENCE AND PROVIDES FLEET PERSONNEL ENGINEERS AND CONTRACTORS WITH DOCUMENTATION RESOURCES IN AN EXPEDITIOUS MANNER. THE TECHNICAL LIBRARY HOUSES MATERIAL IN THE FORM OF ON-LINE COMPUTER IMAGES, DOCUMENTATION, VIDEO, MICROFICHE, APERTURE CARDS, FILM, AND AUDIO TAPES. IT ALSO HOUSES CD-ROMS AND FLOPPY DISKS AND TAPES, WITH THE BULK OF TAPE, DISK, AND REMOVABLE DRIVE MATERIALS BEING HOUSED IN THE FACILITY MEDIA LIBRARY.

5.4.1 ANNUAL LIBRARY REPORT

THE ENGINEERING CONTRACTOR SHALL TRACK DOCUMENTATION MATERIALS VIA THE INTEGRATED DM DATABASE. THE LIBRARY STAFF WILL RECEIVE ALL INCOMING MATERIALS, BAR-CODE THE ITEM, INITIATE THE RECORD IN THE INTEGRATED DM DATABASE, AND FORWARD THE ITEM TO EITHER THE DOCUMENT LIBRARY SECTION OR THE MEDIA LIBRARY SECTION FOR CATALOGING AND STORAGE. THE ENGINEERING CONTRACTOR SHALL SUBMIT AN ANNUAL LIBRARY REPORT. REPORTS SHALL BE PREPARED IN ACCORDANCE WITH CONTRACT DATA REQUIREMENTS LIST, DD FORM 1423, EXHIBIT A, SEQUENCE NUMBER B001.

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5.4.2 LIBRARY MANAGEMENT

THE CONTRACTOR SHALL PERFORM MANAGEMENT FUNCTIONS INVOLVED IN THE OPERATION OF A TECHNICAL LIBRARY SUCH AS:

- a. ENSURING THAT ALL DOCUMENTS HAVE PROPER CLASSIFICATION MARKINGS IAW THE LATEST DISA (DEFENSE INFORMATION AND SYSTEM AGENCY) AND NISPOM REGULATIONS.
- b. FOLLOW SECURITY PROCEDURES AND PRACTICES WHICH INCLUDE BUT NOT LIMITED TO VERIFYING CUSTOMERS' NEED TO KNOW, SECURITY CLEARANCES AND AUTHORIZATION TO CHECK OUT CLASSIFIED OR UNCLASSIFIED DOCUMENTS.
- c. IDENTIFICATION AND DOCUMENTATION OF CURRENT TECHNICAL LIBRARY ISSUES AND IDEAS FOR IMPROVEMENTS AS THEY ARISE. THE MAJOR THRUST OF THIS TASK WILL BE GRADUAL MIGRATION TO A PAPERLESS LIBRARY ENVIRONMENT AND THE INCREASING USE OF ON-LINE SERVICES AND ELECTRONIC COPIES OF DOCUMENTS FOR LIBRARY USERS.
- d. ASSURANCE OF LIBRARY SECURITY AND ACCESS TO COLLECTIONS.
- e. GENERATION OF A WIDE VARIETY OF AUTOMATED REPORTS.
- f. COMPILATION OF MONTHLY STATISTICS.

5.4.3 LIBRARY SERVICES

THE CONTRACTOR SHALL PROVIDE A FULL RANGE OF SERVICES TO USERS OF THE TECHNICAL LIBRARY SUCH AS:

- a. PROVIDE INVENTORY LISTING OF LIBRARY DOCUMENTS AND MEDIA CONTENTS INCLUDING A MONTHLY DESCRIPTIVE LISTING OF NEW ITEMS.
- b. RETRIEVE LIBRARY MATERIALS AND PROVIDE ASSISTANCE IN IDENTIFICATION AND LOCATION OF MATERIALS.
- c. PROVIDE INTER-LIBRARY SEARCHING AND LOAN SERVICES.
- d. PROVIDE ACCESS TO INFOLINK, AUTOMATED TECHNICAL INFORMATION SYSTEM (ATIS) AND JOINT ENGINEERING DATA MANAGEMENT INFORMATION CONTROL SYSTEM (JEDMICS).
- e. INTERFACE WITH NATEC LIBRARY TO PROVIDE AUTOMATIC DISTRIBUTION OF NAVAIR PUBLICATIONS.
- f. GENERATION OF AUTOMATED AND NON-AUTOMATED REPORTS IDENTIFIED WITHIN THE CDRL LIST REQUIRED BY THE TOM.

5.4.4 DOCUMENTS

LIBRARY DOCUMENTATION CONSISTS OF LIBRARY PROCEDURE MANUALS, USER'S MANUALS, AND DATABASE DESIGN DOCUMENTATION. THE CONTRACTOR SHALL ENSURE THAT THESE DOCUMENTS REFLECT NAWCAD APPROVED LIBRARY PROCEDURES AND PRACTICES. THESE DOCUMENTS SHALL BE UNDER CONFIGURATION CONTROL AND UPDATED IN THE SAME MANNER AS BASELINE TECHNICAL DOCUMENTS.

5.4.5 DOCUMENTS STORAGE

THE CONTRACTOR SHALL PROVIDE A LOCATION IN ACCORDANCE WITH NISPOM TO STORE AND MANAGE DOCUMENTATION MATERIALS UP TO THE SECRET LEVEL. THIS WILL BE DONE VIA AN INTEGRATED DATABASE. THE LIBRARY STAFF WILL MANAGE AND MAINTAIN ALL INCOMING AND STORED MATERIALS WITHIN THE CURRENT MSA LIBRARY AND ALL LIBRARIES THAT MAY BE ASSIGNED BY THIS CONTRACT. THEY SHALL PROVIDE A QUARTERLY REPORT OF ALL CLASSIFIED

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DOCUMENTS THAT ARE CHECKED IN AND OUT OF THE LIBRARY TO ENSURE ACCOUNTABILITY. THEY WILL ALSO PROVIDE A YEARLY REPORT TO ENSURE THAT ALL DOCUMENTS ARE PROPERLY MARKED AND MAINTAINED IN ACCORDANCE WITH DISA REGULATIONS.

5.5 DATA BASE GENERATION AND MANAGEMENT CAPABILITY

THE ENGINEERING CONTRACTOR SHALL BE CAPABLE OF DEVELOPING AND MANAGING VARIOUS DATA BASE MANAGEMENT SYSTEMS UTILIZING TOOLS SUCH AS DOORS, CHANGE SYNERGY, AND MICROSOFT ACCESS, RAZOR AND PCMS FOR THE PURPOSE OF PROVIDING PROJECT TEAM ACCESS TO THE PROJECT DATA BASES FOR PURPOSES OF NEW ITEM ENTRY, COMMENTS ENTRY AND MAINTENANCE, DOCUMENTS, PROBLEM REPORTS AND GENERAL REVIEW. THE ENGINEERING CONTRACTOR MAY BE REQUIRED TO PROVIDE MANAGEMENT FOR MAINTAINING THE SYSTEM AND MAY ACT AS THE SINGLE SOURCE OF SUCH MANAGEMENT CONTROL. CONTROLLED CAPABILITIES ARE DEFINED AS ANY ADDITIONS AND/OR MODIFICATIONS TO THE DATABASE STRUCTURE OR OPERATION. AN EXAMPLE IS THE SPR DATA BASE MANAGEMENT TOOL, CHANGE SYNERGY. EXAMPLES OF ASSOCIATED TOOLS ARE: REPORT GENERATION MODIFICATIONS; DATABASE MAN MACHINE INTERFACE MODIFICATIONS, DATA BASE RELATIONAL LINK MODIFICATIONS. THE ENGINEERING CONTRACTOR SHALL BE REQUIRED TO ACCESS THESE DATABASES FROM THEIR OFF SITE FACILITY THROUGH NMCI.

5.6 ELECTRONIC MAIL

THE USE OF ELECTRONIC MAIL IS CRUCIAL TO THE INTERACTION OF THE GOVERNMENT AND THIRD PARTY SUPPORT CONTRACTORS WITH THE ENGINEERING CONTRACTOR. THE ENGINEERING CONTRACTOR SHALL PROVIDE ELECTRONIC MAIL COMMUNICATION THAT IS COMPATIBLE WITH MICROSOFT OFFICE PROGRAMS AND ITS ATTACHMENT CAPABILITIES.

5.7 MATERIAL

THE ENGINEERING CONTRACTOR SHALL PROVIDE SPECIALIZED PARTS, COMPONENTS, MATERIAL, AND EQUIPMENT AS NECESSARY TO ACCOMPLISH THE REQUIREMENTS REFERRED TO IN SECTION 4.0. THE CONTRACTOR SHALL PROVIDE MATERIAL, EQUIPMENT, AND ALL OTHER ITEMS THAT ARE NECESSARY AND INTEGRAL TO PERFORMANCE UNDER THIS CONTRACT. ALL PURCHASE REQUESTS THAT EXCEED \$500,000.00 TOTAL SHALL HAVE PRIOR TASK ORDER MANAGER (TOM) APPROVAL. THE CONTRACTOR SHALL TRACK, MANAGE, AND OTHERWISE ACCOUNT FOR PURCHASES MADE ON BEHALF OF THE GOVERNMENT UNDER THE AUTHORITY OF THIS CONTRACT WITH A PURCHASE SYSTEM. THE CONTRACTOR'S PURCHASING SYSTEM MUST HAVE BEEN REVIEWED AND APPROVED IN ACCORDANCE WITH PART 44 OF THE FEDERAL ACQUISITION REGULATION (FAR). THE GOVERNMENT RESERVE THE RIGHT TO REVIEW THE CONTRACTOR'S PURCHASING SYSTEM AS SET FORTH IN FAR SUBPART 44.3.

6.0 SECURITY

THE WORK TO BE PERFORMED UNDER THE SOW INVOLVES ACCESS TO, HANDLING AND STORAGE OF CLASSIFIED MATERIAL UP TO AND INCLUDING SECRET AT THE CONTRACTOR'S FACILITY AND ACCESS TO MATERIAL UP TO AND INCLUDING TOP SECRET WITHIN GOVERNMENT FACILITIES. IN ADDITION, ACCESS TO CONTROLLED AREAS AS WELL AS THE DEFENSE TECHNICAL INFORMATION CENTER SERVICES ON THE GOVERNMENT INSTALLATION MAY BE REQUIRED. SECURITY REQUIREMENTS WILL BE AS SPECIFIED IN ACCORDANCE WITH THE TASKS. AN OPERATIONS SECURITY PLAN SHALL BE PREPARED IN ACCORDANCE WITH CONTRACT DATA REQUIREMENTS LIST, DD FORM 1423, EXHIBIT A, SEQUENCE

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6.1 LABORATORY SECURITY

THE ENGINEERING CONTRACTOR SHALL ASSIST THE GOVERNMENT SECURITY OFFICE IN ADMINISTERING ALL SECURITY FUNCTIONS OF THE OPERATIONS MAINTENANCE AND ENGINEERING (OM&E) AND SOFTWARE PRODUCTION FACILITY (SPF) LABORATORY OPERATIONS. THIS WOULD INCLUDE ALL SECURITY DISCIPLINES AND ALL SECURITY RELATED FUNCTIONS NECESSARY TO MAINTAIN A CERTIFIED STRONG ROOM ENVIRONMENT, GENERATE THE NECESSARY PAPERWORK TO COMPLETE INTERIM AUTHORITY TO OPERATE (IATO), MAINTAINING A CLASSIFIED AND UNCLASSIFIED AUTHORITY TO OPERATE (ATO) OF ACCREDITED SYSTEMS, MAINTAIN A COMSEC CUSTODIAN OFFICE, MAINTAIN AND UPDATE VISITOR CONTROL SYSTEM COVERING ALL VISITORS FOREIGN AND DOMESTIC FOR THE LABORATORY, MAINTAIN THE SWIPE ACCESS SYSTEM, BE KEPT ABREAST OF ALL CHANGES WITHIN NAVAIR, NAWCAD PATUXENT RIVER, AND OTHER SITES IDENTIFIED BY THE SECURITY OFFICE, AND OTHER DIRECTIVES AS NECESSARY TO COMPLETE ANY AND ALL SECURITY RELATED TASKING AND RESPONSIBILITY.

6.1.1 GENERAL LABORATORY SECURITY

THE ENGINEERING CONTRACTOR SHALL SUPPORT THE GOVERNMENT SECURITY AND LABORATORY MANAGEMENT TEAMS TO ENSURE THE LABORATORIES ARE PROPERLY MAINTAINED AS CERTIFIED STRONG ROOMS. THIS SHALL INCLUDE BUT IS NOT LIMITED TO PROVIDING UP-TO-DATE SWIPE ACCESS CONTROL AND MAINTAINING AND ACCESS LISTS, PERFORMING ALL SAGE SECURITY CHECKS, ENSURING THE LABORATORY STAFF IS MADE AWARE OF ALL SECURITY CHANGES, AND MAINTAINING AND ENFORCING ALL POLICY AND PROCEDURES REGARDING LABORATORY SECURITY FUNCTIONS.

6.1.2 VISITOR CONTROL OF OM&E AND SPF LABORATORY

THE ENGINEERING CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR MAINTAINING A VISITOR CONTROL DATABASE OF ALL PERSONNEL ACCESSING THE LAB TO ENSURE THEY HAVE TO PROPER SECURITY CREDENTIALS. THE CONTRACTOR SHALL ADVISE VISITORS OF THE SECURITY REQUIREMENTS ASSOCIATED WITH UNCLASSIFIED AND CLASSIFIED VISITS TO THE LABORATORIES. THE ENGINEERING CONTRACTOR SHALL ASSIST THE GOVERNMENT SECURITY OFFICE AND THE LABORATORY MANAGEMENT PERSONNEL IN INTERPRETING SECURITY REGULATIONS AND MAKING SURE THEY ARE ENFORCED AS SPECIFIED BY THE NA 5500.2. THIS SHALL INCLUDE ANY AND ALL CHANGES OR UPDATES TO THAT NA 5500.2.

6.1.3 INFORMATION ASSURANCE (IA) SECURITY

THE CONTRACTOR SHALL SUPPORT THE GOVERNMENT SECURITY OFFICE AND THE MANAGEMENT TEAM BY MAINTAINING AND IMPLEMENTING ALL SSAA TO A COMPLETED ATO ACCREDITED SYSTEM. THIS SHALL INCLUDE BUT NOT BE LIMITED TO IMPLEMENTING ALL NECESSARY PAPERWORK, ATTENDING MEETINGS, MAKING THE NECESSARY CHANGES TO ATTAIN AN ATO PACKAGE, UPDATING THE PACKAGES AS NECESSARY ONCE AN ATO IS ATTAINED, MAINTAINING A PRESENCE WITHIN THE IA TEAM, COMPLETE THE REQUIRED CERTIFICATIONS TO MAINTAIN A LEVEL 3 INFORMATION ASSURANCE OFFICER (IAO), AND OTHER TASKS AS DIRECTED BY THE SECURITY OFFICE.

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6.1.4 COMSEC

THE CONTRACTOR SHALL MAINTAIN A PROPER COMSEC CUSTODIAN PROGRAM FOR ALL LABORATORIES AS DIRECTED BY THE SECURITY OFFICE. THIS SHALL INCLUDE INTERFACING WITH THE NDW COMSEC CUSTODIAN AS APPOINTED AT NAS PATUXENT RIVER TO ENSURE THE OM&E AND SPF LABORATORIES ARE AT A FOLLOWING THE COMSEC PROGRAM AND ENFORCING ALL RULES AND REGULATIONS DIRECTED BY THE PROGRAM.

7.0 MANAGEMENT

THE FOLLOWING DESCRIBES THE MANAGEMENT REQUIREMENTS, IN TERMS OF TASK DELIVERABLES, TO BE PROVIDED UNDER THIS CONTRACT. A DESCRIPTION IS PROVIDED WHERE APPROPRIATE AND MODIFICATIONS NOTED WHERE NECESSARY FOR EACH ITEM INCLUDED IN THE CONTRACT DATA REQUIREMENTS LIST (CDRL) OF DD FORM 1423.

7.1 MONTHLY CONTRACT STATUS REPORT

THE ENGINEERING CONTRACTOR SHALL SUBMIT A REPORT TO THE TOM OF THIS CONTRACT AS INDICATED IN EXHIBIT A. THIS REPORT SHALL INCLUDE THE FOLLOWING INFORMATION:

- a. CONTRACT PARAMETERS (CONTRACT START AND END DATES; MAN HOURS AND DOLLARS, AND PERCENTAGE OF CEILING REMAINING FOR DOLLARS AND MAN HOURS FOR EACH CONTRACT YEAR).
- b. UTILIZATION SUMMARY (TOTAL OF CONTRACT DOLLARS AND HOURS CONTRACTED AND USED IN EACH YEAR).
- c. CONTRACT HOURS SUMMARY,
- d. FUNDING SUMMARY,
- e. LABOR CATEGORY HOURS EXPENDITURES,
- f. MANPOWER EXPENDITURES
- g. DELIVERABLES PROVIDED DURING REPORT PERIOD

REPORTS SHALL BE PREPARED IN ACCORDANCE WITH CONTRACT DATA REQUIREMENTS LIST, DD FORM 1423, EXHIBIT A, SEQUENCE NUMBER B003.

7.2 MONTHLY TASK PERFORMANCES AND COST REPORT

THE ENGINEERING CONTRACTOR SHALL SUBMIT A MONTHLY PERFORMANCE AND COST REPORT FOR EACH TASK TO THE TOM OF THIS CONTRACT AS INDICATED IN EXHIBIT A. THIS REPORT SHALL INCLUDE THE FOLLOWING INFORMATION:

- a. TASK PARAMETERS (TASK START AND END DATES; LABOR HOURS AND DOLLARS, AND TASK FUNDING LEVELS),
- b. UTILIZATION SUMMARY (TOTAL CONTRACT DOLLARS AND HOURS CONTRACTED AND USED IN EACH YEAR).
- c. TASK HOURS SUMMARY,
- d. TASK FUNDING SUMMARY,

F. TASK MANPOWER DETAILS (INDIVIDUALS THAT WORKED THE TASK AND HOURS).

- g. DELIVERABLES PROVIDED DURING REPORT PERIOD.

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- h. TRAVEL
- i. MATERIAL

REPORTS SHALL BE PREPARED IN ACCORDANCE WITH CONTRACT DATA REQUIREMENTS LIST, DD FORM 1423, EXHIBIT A, SEQUENCE NUMBER B004.

7.3 MONTHLY PROGRESS REPORT

THE ENGINEERING CONTRACTOR SHALL SUBMIT A MONTHLY PROGRESS REPORT FOR EACH TASK. THIS REPORT SHALL INDICATE THE TASKS PERFORMED THE PRECEDING MONTH, ANY PROBLEM AREAS THAT EXIST, PROPOSED SOLUTIONS TO PROBLEM AREAS AND TASKING PLANNED FOR THE CURRENT MONTH.

REPORTS SHALL BE PREPARED IN ACCORDANCE WITH THE CONTRACT DATA REQUIREMENTS LIST, DD FORM 1423, EXHIBIT A, SEQUENCE NUMBER B005

7.4 PROGRAM REVIEW/PRESENTATION MATERIALS

THE ENGINEERING CONTRACTOR SHALL ATTEND AND PREPARE PRESENTATION MATERIALS FOR QUARTERLY PROGRAM REVIEW MEETINGS THAT SHALL BE USED TO ACCESS THE OVERALL STATUS OF THE CONTRACTUAL EFFORT.

REPORTS SHALL BE PREPARED IN ACCORDANCE WITH THE CONTRACT DATA REQUIREMENTS LIST, DD FORM 1423, EXHIBIT A, SEQUENCE NUMBER B006.

7.5 FINAL REPORT

THE ENGINEERING CONTRACTOR SHALL SUBMIT A FINAL REPORT IN ACCORDANCE WITH CONTRACT DATA REQUIREMENTS LIST, DD FORM 1423, EXHIBIT A, SEQUENCE NUMBER B007.

7.6 CONTRACT SCHEDULE

ALL WORK REQUIRED HEREUNDER SHALL BE PERFORMED, COMPLETED, AND DELIVERED IN ACCORDANCE WITH THE TASKS ISSUED BY THE CONTRACTING OFFICER. SCHEDULES WILL BE ESTABLISHED AT THE TIME OF ISSUANCE OF THE TASKS.

7.7 CONTRACTOR PERFORMANCE

THE CONTRACTOR SHALL PERFORM ON-SITE NAWC AIRCRAFT DIVISION, IN CONTRACTOR FACILITY/FIELD OFFICE OR OCCASIONALLY ELSEWHERE. THE CONTRACTOR SHALL PERFORM ANY AND ALL OF THE ENGINEERING, ANALYSIS, DOCUMENTATION, CONSULTING, AND RELATED DATA

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PROCESSING, DATA REDUCTION, AND ASSESSMENT AND PROVIDE TO THE GOVERNMENT PERSONNEL AND SUPERVISORS AS REQUIRED.

8.0 RESIDENCY AND TRAVEL REQUIREMENTS

8.1 LOCALITY REQUIREMENTS

EMPLOYEES OF THE ENGINEERING CONTRACTOR PERFORMING ANY WORK UNDER THIS CONTRACT AT GOVERNMENT INSTALLATIONS SHALL OBSERVE AND COMPLY WITH ALL PRESCRIBED AND APPLICABLE RULES, REGULATIONS, AND ESTABLISHED WORKING HOURS OF SUCH INSTALLATIONS UNLESS AUTHORIZED OTHERWISE, IN WRITING, BY A COGNIZANT REPRESENTATIVE OF THE NAWC AIRCRAFT DIVISION. ALL ENGINEERING CONTRACTOR PERSONNEL MUST WEAR THE IDENTIFICATION BADGE ISSUED BY THE SECURITY OFFICE OR THE VISITOR'S IDENTIFICATION BADGE AT ALL TIMES WHILE IN THE CONFINES OF THE NAWCAD OR OTHER GOVERNMENT ACTIVITY AS REQUIRED DURING PERFORMANCE OF THIS CONTRACT.

8.1.2 ENGINEERING CONTRACTOR AVAILABILITY

IT IS OFTEN NECESSARY FOR THE ENGINEERING CONTRACTOR TO ATTEND STATUS REVIEWS, TECHNICAL DISCUSSIONS AND INFORMAL MEETINGS AT THE NAWC AIRCRAFT DIVISION AND NAVAIR, WHICH MAY BE CALLED WITH RELATIVELY SHORT NOTICE. THUS, THE ENGINEERING CONTRACTOR MUST BE CAPABLE OF RESPONDING WITHIN 30 MINUTES TRAVEL TIME TO PARTICIPATE IN MEETINGS LOCATED AT THE NAWC AIRCRAFT DIVISION. SUCH MEETINGS AND DISCUSSIONS SHALL BE SUPPORTED AS REQUIRED BY THE TOM.

8.1.3 TRAVEL

THE ENGINEERING CONTRACTOR SHALL SUPPORT TRAVEL OF ITS PERSONNEL WITHIN AND OUTSIDE THE CONTINENTAL UNITED STATES WHEN REQUIRED TO SUPPORT TASK PERFORMANCE. TRIP REPORTS SHALL BE PROVIDED AS REQUESTED BY THE TOM.

9.0 PERSONNEL

THE REQUIREMENTS TO PROVIDE FLIGHT QUALIFIED PROJECT SPECIALISTS IN ACCORDANCE WITH OPNAVINST 3710.7 SERIES AND APPLICABLE NATOPS FLIGHT MANUALS FOR THE AIRCRAFT BEING FLOWN APPLIES. PROJECT SPECIALISTS FALL INTO TWO GROUPS, THOSE WHO CAN OPERATE THE STATIONS ON THE AIRCRAFT INCLUDING ACOUSTIC, NON-ACOUSTIC, NAVIGATOR/COMMUNICATOR (NAVCOM) AND TACTICAL COORDINATOR (TACCO) AND THOSE THAT PERFORM OBSERVER FUNCTIONS. THE GOVERNMENT IS RESPONSIBLE FOR PROVIDING THE FACILITIES AND ASSETS REQUIRED FOR ENGINEERING CONTRACTOR PERSONNEL TO ACHIEVE AND MAINTAIN CURRENCY AT THEIR ASSIGNED AIRCREW POSITIONS TO INCLUDE FLIGHT PHYSIOLOGY, NATOPS EXAMS AND FLIGHT CHECKS, AND THE MINIMAL HOURS REQUIRED TO MAINTAIN CURRENCY. ANNUAL FLIGHT PHYSICALS ARE THE RESPONSIBILITY OF THE ENGINEERING CONTRACTOR.

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9.1 SPECIALIZED/RELEVANT EXPERIENCE AND CAPABILITIES

THE ENGINEERING CONTRACTOR PERSONNEL SHALL HAVE SPECIFIC (RELEVANT) EXPERIENCE AND CAPABILITIES RELATED TO NAVY AVIONICS SYSTEM ENGINEERING TASKS TO BE ASSIGNED UNDER THIS SOW IN THE FOLLOWING AREAS: NO ONE PERSON IS EXPECTED TO HAVE EXPERIENCE IN ALL THE CAPABILITIES LISTED BELOW.

*SYSTEMS ANALYSIS, OPERATIONS RESEARCH

*SYSTEM SOFTWARE ENGINEERING FOR REAL-TIME AVIONICS AND WEAPONS SYSTEMS.

*OBJECT ORIENTED (OO) DESIGN & IMPLEMENTATION WITH UML AND C++

*REAL-TIME PROGRAMMING IN ADA OR C++

*SOFTWARE DEVELOPMENT IN A CROSS-COMPILE ENVIRONMENT (UNIX OR MS WINDOWS HOST WITH POWER PC TARGET)

*SYSTEMS ENGINEERING

*OPERATIONAL SYSTEM REQUIREMENTS DEFINITION-FOR AIRBORNE WEAPONS PLATFORMS

*DISPLAY AND CONTROL SYSTEMS-FOR AIRBORNE WEAPONS PLATFORMS

*EQUIPMENT INTERFACE TECHNIQUES-FOR AIRBORNE WEAPONS PLATFORMS

*INTEGRATED AVIONIC SYSTEM DEFINITION AND ARCHITECTURE

*INTEGRATION AND TESTING OF AVIONIC SYSTEMS IN NAVY AIRCRAFT AND SHIP-BASED SYSTEMS-

*AVIONIC COMPUTER SYSTEMS FOR NAVY AIRCRAFT

*HARDWARE/SOFTWARE TESTING AND QUALITY ASSURANCE

*AVIONIC SYSTEMS PACKAGING

*E3 REQUIREMENTS FOR DOD AND DON

*TEMPEST REQUIREMENTS FOR NAVAIR

*SECURITY REQUIREMENTS FOR DOD, DON, AND NAVAIR-

*RELIABILITY, MAINTAINABILITY, AND LOGISTIC SYSTEMS USED BY DOD

*LIFE CYCLE SYSTEMS ENGINEERING FOR NAVY AIRCRAFT

*MISSION/OPS ANALYSIS FOR NAVY AIRCRAFT

*SIGNAL PROCESSING FOR UNDER-WATER ACOUSTIC SENSORS, ESM, EO/IR AND RADAR

*TACTICAL ALGORITHM DEFINITION FOR AIRCRAFT NAVIGATION & WEAPONS/STORES DEPLOYMENT

*PROJECT SPECIALIST/AIRCREW QUALIFIED FOR NAVY AIRCRAFT

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PERSONNEL QUALIFICATIONS LISTED ABOVE REPRESENT MINIMUM ACCEPTABLE LEVELS THAT WILL BE USED AS THE CONTRACT IS ADMINISTERED DURING THE ESTABLISHMENT OF THE INITIAL LABOR FORCE AND AS REPLACEMENTS ARE REQUIRED.

THE ONLY SUPERVISORY PERSONNEL WHO WILL BE CONSIDERED QUALIFIED FOR THESE LABOR CATEGORIES ARE EXPERIENCED, HANDS-ON PERSONNEL WHOSE FUNCTION IS TO REVIEW/APPROVE THE TECHNICAL PRODUCTS OF A TASK AND WHO DIRECTLY SUPERVISE THE ACTIVITIES OF NON-SUPERVISORY PERSONNEL WORKING ON A TASK. SECOND LINE SUPERVISORS AND GENERAL MANAGEMENT PERSONNEL WILL NOT QUALIFY UNDER THESE LABOR CATEGORIES. ANY SUPERVISORY PERSONNEL OTHER THAN FIRST LINE, HANDS-ON PERSONNEL DO NOT QUALIFY AS DIRECT LABOR.

KEY LABOR CATEGORY HOURS ARE THOSE HOURS FOR WHICH THE CONTRACTOR AGREES TO ASSIGN PERSONNEL FOR PERFORMANCE OF THIS CONTRACT WHO HAVE BEEN APPROVED IN WRITING BY THE GOVERNMENT IN ACCORDANCE WITH NAVAIR CLAUSE 5252.237-9501 AS INCORPORATED IN SECTION H. THE KEY LABOR CATEGORY HOURS FOR THIS SOW ARE:

Labor Category	Hours
Program Manager/Principal Engineer	8,000
Senior Engineer/Senior Systems Engineer	44,000
Senior Computer Scientist	40,000
Security Clerk	6,000

THE FOLLOWING LABOR CATEGORIES ARE REQUIRED TO HAVE IDENTIFIED SECURITY CLEARANCES AS REQUIRED TO PERFORM ASSIGNED DUTIES:

PROGRAM MANAGER/PRINCIPAL ENGINEER (KEY LABOR CATEGORY)

EDUCATION: AN UNDERGRADUATE DEGREE IN THE BROAD FIELD OF ENGINEERING (ELECTRONIC, ELECTRICAL, ETC.), SCIENCE (PHYSICS, OCEANOGRAPHY, ETC.), OR MATHEMATICS IS HIGHLY DESIRED BUT NOT MANDATORY. AN ADVANCED DEGREE IN ANY OF THESE FIELDS IS DESIRED.

EXPERIENCE: FIVE (5) OR MORE YEARS OF GENERAL EXPERIENCE IN THE DEGREE FIELD IS REQUIRED IN ADDITION TO ELEVEN (11) YEARS OF EXPERIENCE IN MILITARY WEAPONS SYSTEMS AND PROGRAM MANAGEMENT. EXPERIENCE SHALL BE FROM INCREASINGLY MORE COMPLEX AND AUTHORITATIVE POSITIONS WITH RESPONSIBILITY FOR MAJOR MILITARY PROJECT DEVELOPMENT, MANAGEMENT, ENGINEERING DESIGN, CONCEPT FORMULATION, RESEARCH, TESTING, EVALUATION, COMPUTER SYSTEMS, DESIGN AND IMPLEMENTATION, INFORMATION SYSTEM IMPLEMENTATION, AND A THOROUGH KNOWLEDGE OF THE DEPARTMENT OF DEFENSE (DOD)/NAVY ACQUISITION AND BUDGETING PROCESS AND REQUIREMENTS. DEMONSTRATED ABILITY TO ORIGINATE, DESIGN, AND DEVELOP SPECIALIZED CONCEPTS ADVANCING THE STATE-OF-THE-ART RELATED TO SPECIFIC PROGRAM REQUIREMENTS. EXPERIENCE MUST REFLECT THE APPLICATION OF INTENSIVE AND DIVERSIFIED KNOWLEDGE OF ENGINEERING, OPERATIONAL REQUIREMENTS AND THEIR IMPLEMENTATION AND ANALYTICAL PRINCIPLES AND PRACTICES ALONG A BROAD SPECTRUM OF TECHNICAL AREAS.

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EXPERIENCE MUST REFLECT INDEPENDENT DECISION MAKING ON ENGINEERING OR ANALYTICAL PROBLEMS AND METHODS IN SUPPORT OF THE ENTIRE TECHNICAL STAFF SUPPORTING THIS CONTRACT. HE/SHE MUST DEMONSTRATE EXPERIENCE IN PLANNING AND COORDINATING TASKING AND PERSONNEL ASSIGNMENTS TO ACHIEVE DESIGNATED GOALS EFFICIENTLY AND ECONOMICALLY. THE PROGRAM MANAGER/PRINCIPAL ENGINEER PROVIDES THE SINGLE POINT-OF-CONTACT FOR ALL QUESTIONS CONCERNING THIS CONTRACT. A MASTERS OR BACHELORS DEGREE IN THE BROAD FIELD OF ENGINEERING (ELECTRONIC, ELECTRICAL, ETC.), SCIENCE (PHYSICS, OCEANOGRAPHY, ETC.), OR MATHEMATICS MAY EACH BE SUBSTITUTED FOR 2 YEARS OF EXPERIENCE.

SENIOR ENGINEER/SENIOR SYSTEMS ENGINEER (KEY LABOR CATEGORY)

EDUCATION: UNDERGRADUATE DEGREE IN COMPUTER SCIENCE, ELECTRICAL/ELECTRONICS ENGINEERING OR MATHEMATICS. SIX (6) YEARS OF EXPERIENCE AS A SYSTEM ENGINEER INVOLVING WORK ON MILITARY WEAPONS SYSTEMS MAY BE SUBSTITUTED FOR AN UNDERGRADUATE DEGREE. THIS EXPERIENCE MUST BE IN ADDITION TO EXPERIENCE LISTED BELOW. A MASTER'S DEGREE MAY BE EQUATED TO TWO YEARS OF EXPERIENCE.

EXPERIENCE: AT LEAST EIGHT (8) YEARS OF PROFESSIONAL ENGINEERING OR TECHNICAL LEADERSHIP EXPERIENCE RELATING TO NAVY WEAPON SYSTEMS AND/OR SENSORS. SHOULD BE CAPABLE OF INDEPENDENT WORK REQUIRING APPLICATION OF INTENSIVE AND DIVERSIFIED KNOWLEDGE OF NAVY SYSTEMS AND EQUIPMENT INCLUDING ONE OR MORE OF THE FOLLOWING: SYSTEMS ENGINEERING, SYSTEMS DESIGN, SYSTEMS INTEGRATION, RELIABILITY/MAINTAINABILITY, CONFIGURATION CONTROL, SAFETY, HUMAN FACTORS, DEVELOPMENT OF TEST AND EVALUATION PLANS, SPECIFICATION DEVELOPMENT, ENGINEERING DESIGN AND DEVELOPMENT SUPPORT, DATA COLLECTION AND PROCESSING TASKS. MUST HAVE BOTH PARTICIPATED AT THE WORKING LEVEL AND IN LEAD SITUATIONS IN TASKS DIRECTLY RELATED TO ONE OR MORE OF THE PRECEDING ACTIVITIES. MUST DEMONSTRATE ABILITY TO WORK INDEPENDENTLY ON MAJOR TASKS.

TECHNICAL TRAINING EXPERT

EDUCATION: REQUIRES A BACHELOR'S DEGREE IN A RELATED FIELD AND AT LEAST 4 YEARS GENERAL TRAINING EXPERIENCE AND 2 YEARS RELEVANT TO THE FIELD OF WEAPONS SYSTEM'S OPERATOR TRAINING. IN LIEU OF A DEGREE, AT LEAST 8 YEARS OF EXPERIENCE IN MILITARY WEAPONS SYSTEMS IS REQUIRED.

EXPERIENCE: RELEVANT EXPERIENCE CONSISTS OF DEMONSTRATED ABILITY TO RESEARCH, DEVELOP, AND VALIDATE TRAINING PROGRAM PLANS, AND OUTLINE AND DOCUMENT NEW/MODIFIED AVIONICS PRODUCT TRAINING SERVICES. ABILITY TO COORDINATE INSTRUCTIONAL PROGRAM IMPLEMENTATIONS, ADMINISTRATIONS, AND COMMUNICATIONS. MUST HAVE KNOWLEDGE AND ABILITY TO DEVELOP TRAINING PACKAGES IN HTML WEB-BASED FORMAT. MAY TEACH COURSES, COACH OTHER NAVY TRAINING PERSONNEL, AND COORDINATE

THE RELATED ACTIVITIES OF OTHER PARTICIPATING NAVY TRAINING GROUPS SUCH AS VX-1. ADMINISTERS WRITTEN AND PRACTICAL EXAMS AND WRITES PERFORMANCE REPORTS TO EVALUATE TRAINEES' PERFORMANCE. ANALYZES STUDENT RESULTS AND USER FEEDBACK TO DETERMINE PROGRAM ENHANCEMENT NEEDS.

SECURITY CLERK (KEY LABOR CATEGORY)

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CLEARANCE LEVEL OF TOP SECRET IS REQUIRED.

EDUCATION: NO DEGREE IS REQUIRED ALTHOUGH A TWO-YEAR CERTIFICATE FROM A ADMINISTRATIVE/BUSINESS TECHNICAL SCHOOL IS RECOMMENDED.

EXPERIENCE: RELEVANT EXPERIENCE OF AT LEAST TWO (2) YEARS WORKING WITH DOD AND DON SECURITY REGULATIONS AND PLANNING AND EXECUTING PERSONNEL AND FACILITY SECURITY PROGRAMS. ASSIGNED WORK REQUIRES DEMONSTRATED ABILITY TO TYPE (POSSIBLY FROM HANDWRITTEN DRAFTS) REPORTS, MANUALS, AND OTHER CONTRACT CORRESPONDENCE. EXPERIENCE MUST INDICATE FAMILIARITY WITH DOD, DON, NAVAL STATION PATUXENT RIVER (NAVSTAPAX), NAVAIR, AND NAWCAD INSTRUCTIONS AND DIRECTIVES REGARDING THE HANDLING OF CLASSIFIED MATERIAL UP TO THE LEVEL OF TOP SECRET AND ADMINISTERING THE PERSONNEL SECURITY PROGRAM, NAWCADPAX INCLUDING THE P-3 PROGRAM GENERATION FACILITY AND LABORATORIES OR SIMILAR FACILITIES. DEMONSTRATE EXPERIENCE MAINTAINING VISIT REQUESTS AND IDENTIFICATION PROGRAMS FOR ALL NAVY PERSONNEL AND ENGINEERING SERVICES CONTRACTOR PERSONNEL AS

APPROPRIATE WHO SUPPORT THOSE NAVY PERSONNEL. EXPERIENCE IN ESTABLISHING SECURITY PROGRAMS AS ARE REQUIRED BY THE NAVY SECURITY MANAGER AND IMPLEMENTING ALL OFFICE LEVEL PROCEDURES FOR THIS PROGRAM.

OPERATIONS ANALYST

EDUCATION: THE OPERATIONS ANALYST REQUIRES A BACHELOR'S DEGREE IN ENGINEERING, APPLIED SCIENCES, OR MATHEMATICS

EXPERIENCE: AT LEAST SIX (6) YEARS OF RELEVANT EXPERIENCE CONSISTING OF DEMONSTRATED KNOWLEDGE IN THE TOTAL SYSTEM OF FUNCTIONAL REQUIREMENTS AND CAPABILITIES AS APPLIED TO THE U.S. NAVY AIRBORNE PLATFORMS SUPPORTED UNDER THIS CONTRACT AND AN IN-DEPTH KNOWLEDGE OF ENVIRONMENT. IT INCLUDES AIRBORNE RELATED EXPERIENCE IN SOFTWARE REQUIREMENTS DEVELOPMENT, MISSION OPERATION, OR DEVELOPMENT TEST AND EVALUATION AT THE SYSTEM LEVEL. THE OPERATION ANALYST WILL BE REQUIRED TO PERFORM INDEPENDENT EVALUATIONS OF BOTH THE FUNCTIONALITY AND OPERATIONAL/TACTICAL APPLICATIONS OF NEW SOFTWARE DESIGNS AND ENHANCEMENTS. THE ANALYST RECEIVES INSTRUCTION ON SPECIFIC ASSIGNMENTS, OBJECTIVES, AND NECESSARY POINTS OF EMPHASIS RELATED TO PROPOSED SYSTEM ENHANCEMENTS OR NEW CAPABILITIES. THE ANALYST IS RESPONSIBLE FOR ANALYZING SOLUTIONS, ESTIMATING PROBLEM IMPACT ON MISSION FUNCTIONS, AND PROVIDING AN EVALUATION OF THE RESULTING SOLUTION.

PROJECT ENGINEER/SYSTEMS ENGINEER

EDUCATION: AN UNDERGRADUATE DEGREE IN THE BROAD FIELD OF ENGINEERING (ELECTRONIC, ELECTRICAL, ETC.), SCIENCE (PHYSICS, OCEANOGRAPHY, ETC.), OR MATHEMATICS IS REQUIRED. AN ADVANCED DEGREE IN ANY OF THESE FIELDS IS DESIRED.

EXPERIENCE: TEN (10) OR MORE YEARS OF SYSTEMS ENGINEERING EXPERIENCE IN U.S. NAVY WEAPON SYSTEMS, SENSORS, ANALYZING REQUIREMENTS, PERFORMING ENGINEERING DUTIES, ANALYSIS AND DOCUMENTATION. MUST HAVE EXPERIENCE IN SYSTEMS ENGINEERING, DESIGN, INTEGRATION, AND TESTING. MUST HAVE DEMONSTRATED KNOWLEDGE OF NAVY POLICIES AND PROCEDURES FOR

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IMPLEMENTATION OF CURRENT DOD, DEPARTMENT OF NAVY (DON), NAVY MATERIAL COMMAND (NACMAT), AND NAVAIR MANAGEMENT AND PROGRAM DIRECTIVES AND INSTRUCTIONS. MUST HAVE A THOROUGH UNDERSTANDING OF THE NAVY WEAPONS SYSTEMS ACQUISITION PROCESS AND BE ABLE TO EFFECTIVELY COMMUNICATE VERBALLY AND IN FORMAL REPORTS WITH HIGHER AUTHORITIES. MUST BE CAPABLE OF WORKING INDEPENDENTLY AND ALSO DIRECTING THE WORK OF OTHER ENGINEERS. MUST MONITOR, REVIEW, AND APPROVE WORK PERFORMED BY ASSIGNED PERSONNEL. AREAS OF ACTIVITY SHOULD HAVE INCLUDED PERFORMANCE OF TECHNICAL ENGINEERING STUDIES IN SPECIALTY FIELDS AND SUPPORT AREAS, DEVELOPMENT OF TEST AND EVALUATION DOCUMENTATION, AND DEVELOPMENT OF TECHNICAL DOCUMENTATION REQUIRED IN THE DSARC PROCESS. SHOULD HAVE PROVIDED CONTRACTUAL PROJECT DIRECTION FOR A MAJOR NAVY WEAPONS SYSTEM OR SUPPORT ACTIVITY.

TEST ENGINEER

EDUCATION: A BACHELOR'S DEGREE IN ENGINEERING, APPLIED SCIENCES, OR COMPUTER SCIENCE. IN LIEU OF A DEGREE, SIX YEARS OF RELEVANT AIRBORNE EXPERIENCE PLUS NAVY SCHOOLS TRAINING RELATED TO SYSTEMS MAY BE SUBSTITUTED. RELEVANT AIRBORNE EXPERIENCE IS DEFINED AS THE OPERATION OF SENSOR/SYSTEMS OR THE "HANDS-ON" TEST EXPERIENCE INVOLVING NAVY PLATFORMS. THE DEGREE MUST BE FROM AN ACCREDITED INSTITUTION.

EXPERIENCE: A TEST ENGINEER REQUIRES A MINIMUM OF FOUR (4) YEARS RELEVANT EXPERIENCE. RELEVANT EXPERIENCE DEFINED AS THE OPERATION OF SENSOR/SYSTEMS OR THE "HANDS-ON" TEST EXPERIENCE INVOLVING NAVY PLATFORMS. ASSIGNED WORK REQUIRES A DEMONSTRATED KNOWLEDGE IN EITHER RADAR, IFF, DATA LINKS, CEC, ASW/ASUW, TACTICS, NAVIGATION, COMMUNICATION, ARMAMENT, ORDNANCE, FLIGHT STATION ACOUSTICS OR NON-ACOUSTICS SENSORS RELATED TO THE SPECIFIED NAVY PLATFORMS SUPPORTED UNDER THIS CONTRACT, AND IN-DEPTH KNOWLEDGE OF HOW THESE SENSORS ARE USED ON THEIR RESIDENT PLATFORMS AND SUFFICIENT BACKGROUND KNOWLEDGE AND EXPERIENCE TO ENABLE THE PROJECTION OF UPGRADED EQUIPMENT INTO FUTURE MISSION REQUIREMENTS. EXPERIENCE MUST DEMONSTRATE ABILITY TO EVALUATE NEW OR REVISED SOFTWARE THAT CONTROLS/RESPONDS TO CURRENT HARDWARE, EVALUATE PROPOSED SOFTWARE THAT WILL CONTROL NEW HARDWARE AND PERFORM TEST AND EVALUATION ON THE INTEGRATED SENSOR SUITE. DEMONSTRATE ABILITY TO TEST SOFTWARE. TESTING MAY INVOLVE INTERACTION WITH TACTICAL COMPUTERS AND SYSTEM COMPUTER, E.G., ASQ-227, USQ-78X, ACOUSTIC ASSIGNMENTS, OBJECTIVES, AND NECESSARY POINTS OF EMPHASIS RELATED TO PROPOSED ENHANCEMENTS AND NEW CAPABILITIES. EXPERIENCE MUST DEMONSTRATE ABILITY TO ANALYZE SOLUTIONS, ESTIMATE PROBLEM IMPACT ON MISSION FUNCTIONS AND PROVIDE AN EVALUATION ON THE RESULTING SOLUTION.

ENGINEER

EDUCATION: UNDERGRADUATE DEGREE IN SCIENCE OR ENGINEERING. EXPERIENCE MAY BE SUBSTITUTED FOR AN UNDERGRADUATE DEGREE.

EXPERIENCE: FOUR (4) YEARS OF EXPERIENCE IN PROFESSIONAL ENGINEERING OR SYSTEMS DESIGN AND INTEGRATION EXPERIENCE DIRECTLY RELATED TO COMPLEX WEAPONS SYSTEMS AND TECHNICAL ANALYSIS INCLUDING SUBSTANTIAL PERIOD OF PRACTICAL EXPERIENCE IN THE AREAS OF PROGRAM DOCUMENTATION, CONFIGURATION, AND DATA MANAGEMENT. MUST BE CAPABLE OF PERFORMING DETAILED AND COMPLEX ENGINEERING CALCULATIONS AND/OR DATA ANALYSES, DATABASE MANIPULATIONS AND MODEL DEVELOPMENT. MUST WORK EFFECTIVELY AS A MEMBER OF A PROJECT TEAM.

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JUNIOR ENGINEER

EDUCATION: UNDERGRADUATE DEGREE IN SCIENCE, COMPUTER SCIENCE, OR ENGINEERING. EXPERIENCE MAY BE SUBSTITUTED FOR AN UNDERGRADUATE DEGREE.

EXPERIENCE: NONE EXCEPT AS DESCRIBED IN PARAGRAPH 9.1 FOR EXPERIENCE IN LIEU OF A DEGREE.

SENIOR COMPUTER SCIENTIST (KEY LABOR CATEGORY)

EDUCATION: UNDERGRADUATE DEGREE IN SCIENCE OR ENGINEERING. EXPERIENCE MAY BE SUBSTITUTED FOR AN UNDERGRADUATE DEGREE. BASIC AND ADVANCED DEGREES CAN BE USED TO OFFSET EXPERIENCE REQUIREMENTS AS INDICATED BELOW AND IN PARAGRAPH 9.1. DEGREES IN COMPUTER SCIENCE, INFORMATION SYSTEMS, ENGINEERING, OR RELATED SCIENTIFIC OR TECHNICAL DISCIPLINE CAN BE USED.

EXPERIENCE: A MINIMUM OF SIXTEEN (16) YEARS OF SPECIALIZED EXPERIENCE IS REQUIRED INCLUDING: ANALYSIS AND DESIGN OF REAL TIME APPLICATIONS ON COMPLEX SYSTEMS FOR LARGE-SCALE COMPUTERS, ANALYSIS AND DESIGN OF REAL TIME EXECUTIVE SOFTWARE, DATA BASE MANAGEMENT, CODING AND DEBUGGING OF ASSEMBLER LANGUAGE (SPL OR EQUIVALENT), C++, ADA, AND RISC 6000. KNOWLEDGE OF CURRENT STORAGE AND RETRIEVAL METHODS AND DEMONSTRATED ABILITY TO FORMULATE SPECIFICATIONS FOR COMPUTER PROGRAMMERS TO USE IN CODING, TESTING, AND DEBUGGING OF COMPUTER PROGRAMS. GENERAL EXPERIENCE INCLUDES INCREASING RESPONSIBILITIES IN ASSIGNMENTS OF A TECHNICAL NATURE. PROVEN ABILITY TO WORK INDEPENDENTLY OR UNDER ONLY GENERAL DIRECTION ON COMPLEX APPLICATION PROBLEMS INVOLVING ALL PHASES OF SYSTEMS ANALYSIS IS REQUIRED.

COMPUTER SCIENTIST

EDUCATION: UNDERGRADUATE DEGREE IN SCIENCE OR ENGINEERING. EXPERIENCE MAY BE SUBSTITUTED FOR AN UNDERGRADUATE DEGREE. BASIC AND ADVANCED DEGREES CAN BE USED TO OFFSET EXPERIENCE REQUIREMENTS AS INDICATED BELOW AND IN PARAGRAPH 9.1. DEGREES IN COMPUTER SCIENCE, INFORMATION SYSTEMS, ENGINEERING, OR RELATED SCIENTIFIC OR TECHNICAL DISCIPLINE CAN BE USED.

EXPERIENCE: AT LEAST FOUR (4) YEARS RELEVANT EXPERIENCE CONSISTING OF PROFESSIONAL COMPUTER ENGINEERING OR TECHNICAL LEADERSHIP EXPERIENCE DIRECTLY RELATED TO DEVELOPMENT OF HARDWARE AND SOFTWARE REQUIRED FOR COMPLEX NAVY WEAPONS SYSTEMS AND TECHNICAL ANALYSIS. AN UNDERSTANDING OF REAL-TIME, EMBEDDED MULTI-COMPUTER SYSTEMS IS ESSENTIAL. A SUBSTANTIAL PORTION OF THIS EXPERIENCE SHOULD BE IN THE AREAS OF SOFTWARE DEVELOPMENT, DOCUMENTATION, CONFIGURATION CONTROL, VERIFICATION AND VALIDATION, AND TECHNICAL LEADERSHIP. MUST BE CAPABLE OF DATA ANALYSES, MODEL DEVELOPMENT AND HAVE BROAD EXPERIENCE IN APPLICABLE COMPUTER PROGRAMMING TECHNIQUES. DEMONSTRATED EXPERIENCE IN THE ANALYSIS AND DESIGN OF REAL TIME EXECUTIVE SOFTWARE, DATA BASE MANAGEMENT, CODING AND DEBUGGING OF ASSEMBLER LANGUAGE (SPL OR EQUIVALENT), C++, ADA, AND RISC 6000.

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PROJECT LEADER

EDUCATION: BACHELOR'S DEGREE OR EQUIVALENT IN ENGINEERING, COMPUTER SCIENCE, CHEMISTRY, PHYSICS, BUSINESS, OR DEGREE RELEVANT TO CONTRACT REQUIREMENTS; OR ASSOCIATES DEGREE AND 2 ADDITIONAL YEARS EXPERIENCE; OR HS PLUS 4 ADDITIONAL YEARS EXPERIENCE. A MASTER'S DEGREE IN ENGINEERING, COMPUTER SCIENCE, CHEMISTRY, PHYSICS, BUSINESS, OR DEGREE RELEVANT TO CONTRACT REQUIREMENTS MAY BE SUBSTITUTED FOR 3 YEARS OF TRAINING. MINIMUM OF 5 YEARS MANAGEMENT EXPERIENCE.

EXPERIENCE: MANAGES PROJECT(S) OR PROGRAM(S) OF MODERATE RISK AND COMPLEXITY OR MAY HAVE DEPUTY RESPONSIBILITY FOR A LARGE PROGRAM. OVERSEES PROJECT BUDGET AND SCHEDULES. HAS SUPERVISORY RESPONSIBILITY INCLUDING MAKING RECOMMENDATIONS FOR HIRING, FIRING, SALARY, AND PERFORMANCE MANAGEMENT. SERVES AS PRIMARY CUSTOMER CONTACT FOR INDIVIDUAL TASK ORDER OR TECHNICAL PROJECT EXECUTION.

ENGINEERING TECHNICIAN

EDUCATION: SUCCESSFUL COMPLETION OF TECHNICAL SCHOOL, TRADE SCHOOL, OR ARMED SERVICES TECHNICAL SCHOOL CURRICULUM OR AT LEAST 30 SEMESTER HOURS (45 QUARTER HOURS) OF COLLEGE COURSE STUDIES IN ENGINEERING, SCIENTIFIC, OR TECHNICAL CURRICULUM OR HS PLUS 4 ADDITIONAL YEARS OF RELATED EXPERIENCE. MINIMUM OF 10 – 12 YEARS OF RELATED EXPERIENCE.

EXPERIENCE: PROVIDES DIRECT SUPERVISION OF OTHER TECHNICIANS AND REPORTS TO MANAGEMENT ON TASK PROGRESS AND STATUS. PREPARES WORK PLANS, PROCEDURES, AND STAFFS TECHNICAL TASKS. APPLIES ENGINEERING TECHNIQUES AND PRINCIPLES TO INSTALL, MODIFY, MAINTAIN, TEST, EVALUATE, AND OPERATE SYSTEMS, EQUIPMENT, AND FACILITY PROVISIONS. USES EXPERT KNOWLEDGE TO TROUBLESHOOT AND REPAIR PARTICULARLY COMPLEX OR TROUBLESOME ELECTRICAL, ELECTRONIC, STRUCTURAL, OR MECHANICAL FAILURES. PERFORMS QUALITY ASSURANCE ON THE REPAIR, SERVICING, AND/OR CALIBRATION OF SYSTEMS, TEST EQUIPMENT, CONTROL SYSTEMS, AND ELECTRONIC/MECHANICAL EQUIPMENT. PREPARES WORK PROCEDURES AND TRAINING MATERIALS. TRAINS OTHER TECHNICIANS. EVALUATES AN/OR SUGGESTS DESIGN CHANGES OR RECOMMENDS IMPROVEMENTS IN PRODUCTION METHODS AND EQUIPMENT DESIGN. ANALYZES AND APPLIES TECHNICAL AND/OR MAINTENANCE SPECIFICATIONS, POLICIES, STANDARDS, OR PROCEDURES. COMPILES, ORGANIZES, AND PREPARES REPORTS OR PRESENTATIONS OF TECHNICAL DATA AND INFORMATION.

TEST TECHNICIAN

EDUCATION: SUCCESSFUL COMPLETION OF TECHNICAL SCHOOL, TRADE SCHOOL, OR ARMED SERVICES TECHNICAL SCHOOL CURRICULUM OF AT LEAST 30 SEMESTER HOURS (45 QUARTER HOURS) OF COLLEGE COURSE STUDIES IN AN ENGINEERING, SCIENTIFIC, OR TECHNICAL CURRICULUM OR HS PLUS 4 ADDITIONAL YEARS OF RELATED EXPERIENCE. MINIMUM OF 5-7 YEARS OF RELATED EXPERIENCE.

EXPERIENCE: SELECTS AND PREPARES ITEMS FOR TEST, SELECTS/OPERATES TEST EQUIPMENT, OPERATES ITEMS UNDER TEST, CONDUCTS VERIFICATION AND VALIDATION, AND RECORDS TEST DATA,

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POINTING OUT DEVIATIONS RESULTING FROM HARDWARE OR SOFTWARE MALFUNCTION OR OBSERVATIONAL ERRORS. PERFORMS RECURRING WORK INDEPENDENTLY. OPERATES AND MAINTAINS AUTOMATIC OR ELECTRONIC TEST EQUIPMENT.

PARTICIPATES IN TEST PROGRAM SET DEVELOPMENT PROCESS PROVIDING ASSESSMENT OF DESIGN METHODS AND RESULTS. ATTENDS MEETINGS AND PROVIDES INPUT TO DEVELOPMENT AND DESIGN SPECIFICATIONS AND DOCUMENTATION. VERIFIES OPERATOR/MAINTENANCE DOCUMENTATION. PREPARES WRITTEN REPORTS OF FINDINGS AND RECOMMENDATIONS.

TECHNICAL EXPERT

EDUCATION: SUCCESSFUL COMPLETION OF TECHNICAL SCHOOL, TRADE SCHOOL, OR ARMED SERVICES TECHNICAL SCHOOL CURRICULUM OR AT LEAST 30 SEMESTER HOURS (45 QUARTER HOURS) OF COLLEGE COURSE STUDIES IN AN ENGINEERING, SCIENTIFIC, OR TECHNICAL CURRICULUM. A BACHELORS OR HIGHER DEGREE RELEVANT TO SPECIALTY AREA MAY BE SUBSTITUTED FOR 4 YEARS OF SPECIFIC EXPERIENCE. MINIMUM OF 7 – 10 YEARS OF SPECIFIC EXPERT EXPERIENCE.

EXPERIENCE: A TECHNICAL EXPERT IN A SPECIFIC DISCIPLINE RELATED TO ENGINEERING, COMPUTER SCIENCE, SYSTEMS ANALYSIS, LOGISTICS, SYSTEM ENGINEERING, ETC., PROVIDING HIGH-LEVEL CONSULTATION IN AREA OF EXPERTISE.

TECHNICAL PUBLICATION EXPERT

EDUCATION: UNDERGRADUATE DEGREE IN SCIENCE, ENGLISH, JOURNALISM WITH OR RELATED FIELD. AT LEAST TWO (2) YEARS RELEVANT EXPERIENCE AS DETAILED BELOW. RELEVANT EXPERIENCE MAY BE SUBSTITUTED ON A ONE YEAR OF COLLEGE FOR ONE AND ONE HALF (1 ½) YEARS OF EXPERIENCE BASIS.

EXPERIENCE: RELEVANT EXPERIENCE CONSISTS OF EXPERIENCE IN PRODUCING, REVISING, AND DOCUMENTING TECHNICAL INFORMATION AND/OR ILLUSTRATIONS REGARDING AVIONICS SYSTEMS. DOCUMENTATION INCLUDES; DETAILED REQUIREMENTS DOCUMENTS, DESIGN DOCUMENTS, USER MANUALS, TEST DOCUMENTATION, ETC. MUST UTILIZE DOCUMENTATION CONFIGURATION MANAGEMENT PRACTICES FOR REVISIONS AND UPDATES. RESEARCHES, GATHERS, AND ORGANIZES THE REQUIRED INFORMATION AND PREPARES REQUIRED DOCUMENTATION IN TEXT AND GRAPHIC FORMAT FOR PRINTED AND/OR ELECTRONIC PUBLICATION. ACTS AS A LIAISON BETWEEN THE ENGINEERS, SUBJECT MATTER EXPERTS, FLEET OPERATORS AND THE TECHNICAL PUBLICATION TEAM. HAS KNOWLEDGE OF A VARIETY OF CONCEPTS, PRACTICES, AND PROCEDURES RELATED TO PC BASED PUBLICATION (I.E., HTML, JAVA, MAC, UNIX, AND WINDOW PLATFORMS). RELIES ON ACTUAL FLEET EXPERIENCE AND JUDGMENT TO ESTABLISH PRIORITIES FOR PLANNING PURPOSES TO ACCOMPLISH GOALS. PERFORMS A VARIETY OF COMPLICATED TASKS WITH A VARIETY OF SOFTWARE TOOLS. A WIDE DEGREE OF CREATIVITY AND LATITUDE IS EXPECTED.

FINANCIAL AND PROGRAM ANALYST

EDUCATION: UNDERGRADUATE DEGREE IN APPLIED SCIENCE, BUSINESS, OR AT LEAST FOUR (4) YEARS OF RELEVANT EXPERIENCE IN LIEU OF A DEGREE.

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EXPERIENCE: TWO (2) YEARS OF RELEVANT EXPERIENCE CONSISTS OF FINANCIAL MANAGEMENT AND COST ESTIMATING ANALYSIS EXPERIENCE. MUST HAVE PERFORMED COST/SCHEDULE CONTROL SYSTEM CRITERIA (C/SCSC) ANALYSIS, DESIGN-TO-COST AND LIFE CYCLE COST ANALYSIS, AND MUST POSSESS FAMILIARITY WITH THE DEPARTMENT OF THE NAVY PLANNING, PROGRAMMING AND BUDGETING SYSTEM (PPBS). IF THE PERSON HOLDS THE INDICATED DEGREE, HE/SHE MUST HAVE AT LEAST TWO (2) YEARS OF RELEVANT EXPERIENCE BEYOND THE FORMAL EDUCATION.

DRAFTSPERSON

EDUCATION: NO DEGREE IS REQUIRED ALTHOUGH A TWO-YEAR TECHNICAL CERTIFICATE AS A DRAFTSMEN IS RECOMMENDED.

EXPERIENCE: RELEVANT EXPERIENCE F AT LEAST FOUR (4) YEARS AS A DRAFTSMAN OF AVIONICS COMPONENTS DRAWINGS. REQUIRED TALENTS INCLUDE THE ABILITY TO PRODUCE GEOMETRIC REPRESENTATIONS, ORTHOGRAPHIC AND ISOMETRIC DRAWINGS, AUXILIARIES (NORMAL AND EDGE VIEWS), CONVENTIONAL 3-VIEW DRAWINGS AND BLOW-UPS AND PASTE-UPS. MUST BE KNOWLEDGEABLE OF THE STANDARDS FOR GRAPHIC PRESENTATIONS AND BE FAMILIAR WITH THE VARIOUS METHODS OF REPRODUCTION. USING ACCEPTED DRAFTING STANDARDS, CREATES DRAWINGS, SKETCHES AND SCHEMATICS TO INCLUDE THE PREPARATION OF FIGURES, TABLES, AND ILLUSTRATIONS FOR INCLUSION IN TECHNICAL REPORTS, SYSTEM SPECIFICATIONS AND TECHNICAL PROPOSALS. THESE INCLUDE LAYOUTS OF CABINETS, FLOW DIAGRAMS, SCHEDULES, AND OTHER REQUIRED ILLUSTRATIONS. THE DRAFTSMAN SHOULD BE ABLE TO ACCOMPLISH MANY OF THE LISTED TASKS VIA PERSONAL COMPUTER SOFTWARE PACKAGES AND MAINTAIN COMPATIBILITY WITH EXISTING MSA ELECTRONIC DOCUMENTATION.

ADMINISTRATIVE CLERK

RELEVANT EXPERIENCE REQUIRES DEMONSTRATED ABILITY TO TYPE (POSSIBLY FROM HANDWRITTEN DRAFTS) PROPOSALS, REPORTS, BROCHURES, MANUALS, AND OTHER CONTRACT CORRESPONDENCE USING NAVY SPECIFIED FORMATS. THE CLERK MUST BE FAMILIAR WITH PERSONAL COMPUTERS, OFFICE SOFTWARE PACKAGES, AND EQUIPMENT. THE ASSIGNED WORK ALSO REQUIRES THE ABILITY TO STRUCTURE SENTENCES GRAMMATICALLY WITHOUT CHANGING THE AUTHOR'S INTENT OR MEANING. PROOFREADING AND CORRECTING ERRORS SO THAT THE WORK IS RETURNED TO THE AUTHOR READY FOR REPRODUCTION IS HIGHLY DESIRABLE. PERFORMS ADMINISTRATIVE FUNCTIONS TO INCLUDE MAINTAINING AN ELECTRONIC FILING SYSTEM OF DELIVERABLE REFERENCES AND CORRESPONDENCE. PREPARES DOCUMENTATION REQUIRED BY THE CONTRACT REQUIREMENT LIST TO INCLUDE DD 254'S AND LETTER REPORTS. OPERATES THE REPRODUCTION MACHINES TO OBTAIN THE REQUIRED NUMBER OF REPORT COPIES TO BE DELIVERED. REPRODUCTION OF DELIVERABLES AND DOCUMENTS CONTAINING GOVERNMENT CLASSIFICATION REQUIRES SPECIAL HANDLING, LOGGING, AND MACHINE CLEARING.

CONFIGURATION/DATA MANAGEMENT SPECIALIST

EDUCATION: BACHELOR'S DEGREE WITH 2+ YEARS OF RELEVANT EXPERIENCE.

2 YEARS OF RELEVANT EXPERIENCE EQUIVALENT TO 1 YEAR TOWARD A BACHELOR'S DEGREE

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RELEVANT EXPERIENCE REQUIRES DEMONSTRATED ABILITY TO CONDUCT CONFIGURATION MANAGEMENT AND/OR DATA MANAGEMENT TASKS. DEVELOPS PROCESSES FOR CONTROLLING PROGRAM AND VENDOR DOCUMENTATION AND DELIVERABLES. RESPONSIBLE FOR THE INTEGRITY AND ACHIEVEMENT OF REQUIRED STANDARDS, SERVICES AND PRODUCT CONFIGURATIONS. ESTABLISHES AND MAINTAINS DEVELOPMENT STANDARDS, AND CONFIGURATION MANAGEMENT PROCESSES FOR THE DEVELOPMENT, PRODUCTION/INSTALLATION, AND DEPLOYMENT OF NEW AND/OR MODIFIED SYSTEMS. PARTICIPATES IN ASSOCIATED DESIGN REVIEWS, AUDITS, SCHEDULING AND BUDGETING MEETINGS AS REQUIRED.

9.2 WORKING HOURS

NAWCAD AND NAVAIR OPERATE A FLEXIBLE WORK SCHEDULE THAT ALLOWS GOVERNMENT EMPLOYEES TO WORK 9-HOUR DAYS MONDAY THROUGH THURSDAY, 8-HOUR DAYS ON ALTERNATE FRIDAY'S WITH THE CORRESPONDING ALTERNATE FRIDAY AS A COMPRESSED WORK SCHEDULE (CWS) DAY OFF. THE ENGINEERING CONTRACTOR SHALL BE REQUIRED TO WORK OTHER THAN NORMAL HOURS (SECOND AND THIRD SHIFT) TO SUPPORT SOME SITUATIONS. WEEKEND AND HOLIDAY WORK MAY BE REQUIRED.

9.3 FLUCTUATIONS OF PERSONNEL

PERSONNEL REQUIREMENTS MAY FLUCTUATE. SUCH FLUCTUATION MAY OCCUR FROM WEEK TO WEEK. THE GOVERNMENT WILL NOT REIMBURSE THE ENGINEERING SERVICES CONTRACTOR FOR ANY PERSONNEL UNTIL SUCH PERSONNEL ARE ACTUALLY PERFORMING UNDER THIS CONTRACT.

10.0 SOFTWARE TOOLS

THE ENGINEERING CONTRACTOR SHALL UTILIZE THE FOLLOWING SOFTWARE TOOLS IN GENERATING CONTRACTED CDRL DELIVERABLE ITEMS: DOORS, CHANGE SYNERGY, RAZOR, SSC, PAPS THE MS OFFICE COLLECTION OF SOFTWARE INCLUDING MS WORD, EXCEL, ACCESS, PROJECT AND POWERPOINT. USING THESE SOFTWARE TOOLS WILL PROVIDE COMPATIBILITY WITH NAWCAD SOFTWARE TOOLS AND HOST SYSTEMS. THE ENGINEERING CONTRACTOR SHALL FURNISH COPIES OF ALL FINAL VERSIONS OF DOCUMENTATION VIA ELECTRONIC TRANSFER USING THE ABOVE SOFTWARE TOOLS.

11.0 INFORMATION TECHNOLOGY

11.1 INFORMATION TECHNOLOGY (IT) RELATED CLAUSES FOR SOW

1. CLINGER-COHEN ACT: THIS CLAUSE IS **REQUIRED** IN ALL IT PROCUREMENTS.

IN 1996, CONGRESS ENACTED THE CLINGER-COHEN ACT (CCA), REQUIRING AGENCIES TO USE A DISCIPLINED CAPITAL PLANNING AND INVESTMENT CONTROL PROCESS TO ACQUIRE, USE, MAINTAIN, AND DISPOSE OF INFORMATION TECHNOLOGY. PER CCA, OSD MEMO OF 08 MAR 2000, THE DOD 5000.2 OF 13 MAY 2003, AND SECNAVINST 5000.2 OF 19 NOV 2004, CCA COMPLIANCE IS REQUIRED FOR ALL PROGRAMS THAT CONTAIN IT, INCLUDING IT IN WEAPONS AND WEAPONS SYSTEM PROGRAMS. THE

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LAW PROVIDES AUTHORITY TO THE AGENCY'S CIO TO MANAGE IT RESOURCES EFFECTIVELY. THE AUTHORITY TO GRANT COMPLIANCE WITH CCA AND APPROVE THE INFORMATION ASSURANCE STRATEGY DEPENDS ON THE ACQUISITION CATEGORY (ACAT).

2. SYSTEM SOFTWARE/APPLICATION COMPLIANCE:

“ALL INFORMATION TECHNOLOGY SYSTEMS OR SOFTWARE/APPLICATIONS DEVELOPMENT, MODIFICATION OR SUPPORT SHALL BE PERFORMED IN ACCORDANCE WITH DEFENSE BUSINESS TRANSFORMATION GUIDANCE (FORMERLY BUSINESS MANAGEMENT MODERNIZATION PROGRAM (BMMP)), DON/NAVAIR FUNCTIONAL AREA MANAGER (FAM) POLICIES AND GUIDANCE, NETWORK AND SERVER REGISTRATION, AND WEB ENABLEMENT MANDATES.”

3. WEB SITES, WEB ENABLEMENT AND APPLICATION/SYSTEM DEVELOPMENT, MODIFICATION, AND MAINTENANCE SUPPORT SERVICES:

“ALL INFORMATION TECHNOLOGY SYSTEMS, SOFTWARE, AND WEBSITE DEVELOPMENT, MODIFICATION, OR SUPPORT SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, DOD, DON, AND NAVAIR POLICY, GUIDANCE, STANDARDS, AND STRATEGIES, AND SHOULD BE INTEGRATED WITH MYNAVAIR (NAVAIR CORPORATE PORTAL) WHENEVER POSSIBLE. ANY WEB SITES/SERVERS HOSTED/LOCATED IN CONTRACTOR FACILITIES, OR OUTSIDE NAVAIR ENCLAVE, WILL TRANSITION TO NAVAIR ARCHITECTURE AND INFRASTRUCTURE IN ACCORDANCE WITH LEGACY SHUTDOWN GUIDANCE. POLICIES INCLUDE, BUT ARE NOT LIMITED TO:

OMB GUIDE FOR MANAGING U.S. GOVERNMENT WEBSITES

[HTTP://WWW.FIRSTGOV.GOV/WEBCONTENT/](http://www.firstgov.gov/webcontent/)

OMB POLICIES FOR FEDERAL PUBLIC WEBSITES, OMB M-05-04

[HTTP://WWW.FIRSTGOVE.GOV/WEBCONTENT/POLICIES_AND_IMPLEMENTATION.SHTML](http://www.firstgoe.gov/webcontent/policies_and_implementation.shtml)

SECTION 508 STANDARDS [HTTP://WWW.SECTION508.GOV/](http://www.section508.gov/)

NAVY INFORMATION OPERATIONS COMMAND (NIOC) NORFOLK WEB RISK ASSESSMENT

TEAM WEBSITE [HTTPS://WWW.NIOC-NORFOLK.NAVY.MIL/OPERATIONS/WRA/WRA.SHTML](https://www.nioc-norfolk.navy.mil/operations/wra/wra.shtml)

SECNAV 5720.47B DON POLICY FOR CONTENT OF PUBLICLY ACCESSIBLE WEB SITES (NIOC NORFOLK ROUTINELY MONITORS PUBLICLY ACCESSIBLE NAVY WEBSITES FOR POLICY COMPLIANCE; SITE HAS

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A DOWNLOADABLE “WEBSITE SELF-ASSESSMENT CHECKLIST” FOR WEBMASTERS.)

[HTTP://WWW.CHINFO.NAVY.MIL/NAVPALIB/INTERNET/SECNAV5720-47B.PDF](http://www.chinfo.navy.mil/navpalib/internet/secnav5720-47b.pdf)

NAVAIR CIO WEBSITE (NAVAIR SPECIFIC POLICY AND GUIDELINES)

[HTTPS://CIO.NAVAIR.NAVY.MIL/](https://cio.navair.navy.mil/)”

4. SOFTWARE DEVELOPMENT/SERVER PROCUREMENT:

“ANY TOOLS DEVELOPED THAT WILL BE HOSTED BY THE NAVAL MARINE CORPS INTRANET (NMCI) OR RUN ON NMCI WORKSTATIONS WILL BE CERTIFIED FOR NMCI AND COMPLY WITH NMCI POLICY. ADDITIONALLY, ANY SERVERS SUPPORTING THIS EFFORT WILL BE TRANSITIONED TO MEET THE REQUIREMENTS OF THE CURRENT NAVAIR SERVER CONSOLIDATION EFFORT.”

5. NMCI SERVICES FOR CONTRACT PERFORMANCE:

THE FOLLOWING CLAUSE IS REQUIRED FOR INCORPORATION INTO THE CONTRACT TO ALLOW ORDERING OF NMCI SERVICES FOR CONTRACT PERFORMANCE, IF REQUIRED, PER THE TERMS AND CONDITIONS OF THE CLAUSE. THIS CLAUSE IS REFERRED TO WITHIN THE SOW, BUT SHALL ALSO BE INCORPORATED,

PURSUANT TO MUTUAL AGREEMENT OF THE PARTIES, UNDER SECTION H, SPECIAL CONTRACT REQUIREMENTS.

“ORDERING PROCEDURES FOR NAVY MARINE COPRS INTRANET (NMCI) SERVICES (SEP 200) (A) THIS SUPPORT SERVICES CONTRACT MAY REQUIRE THE USE OF AND/OR ACCESS TO DEPARTMENT OF NAVY (DON) INFORMATION TECHNOLOGY (IT) RESOURCES BY CONTRACTOR PERSONNEL FOR CONTRACT PERFORMANCE. APPLICABLE DON IT RESOURCES FOR PERFORMANCE OF THIS CONTRACT SHALL BE PROCURED FROM THE NMCI CONTRACTOR PURSUANT TO THE AUTHORITY OF NMCI CONTRACT # N00024-00-D-6000, CLAUSE 5.2 “ORDERING.” (B) THE SUPPORT SERVICES CONTRACTOR SHALL OBTAIN WRITTEN AUTHORIZATION FROM THE CONTRACTING OFFICER EXECUTING THIS CONTRACT, PRIOR TO ORDERING DIRECTLY FROM THE NMCI CONTRACTOR. NO NMCI ORDER MAY BE PLACED WITHOUT THE PRIOR WRITTEN AUTHORIZATION OF THE CONTRACTING OFFICER. ANY NMCI ORDER EXCEEDING THE WRITTEN AUTHORIZATION OF THE CONTRACTING OFFICER SHALL BE TREATED AS AN UNALLOWABLE COST PURSUANT TO FAR PART 31. (C) THE GOVERNMENT SHALL REIMBURSE THE CONTRACTOR FOR THE PLACEMENT OF NMCI ORDERS INCLUDING APPLICABLE INDIRECT BURDENS (GENERAL & ADMINISTRATIVE, ETC.), EXCLUDING PROFIT OR FEE.

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6. INFORMATION ASSURANCE (IA):

(PLEASE ALSO REFER TO THE INFORMATION ASSURANCE CLAUSE LISTED IN 3.2 APPLICABLE DOCUMENTS)

NAVAIR INFORMATION ASSURANCE (IA) PROGRAM IS A UNIFIED APPROACH TO PROTECT UNCLASSIFIED, SENSITIVE, OR CLASSIFIED INFORMATION, AND IS ESTABLISHED TO CONSOLIDATE AND FOCUS EFFORTS IN SECURING THAT INFORMATION, INCLUDING ITS ASSOCIATED SYSTEMS AND RESOURCES. IA IS REQUIRED TO OPERATIONALLY THROUGHOUT DON. DON CIO (CHIEF INFORMATION OFFICER) IS RESPONSIBLE FOR IT WITHIN THE NAVY, AS MANDATED BY THE CLINGER-COHEN ACT, AND IS THE LEAD FOR DEPARTMENTAL COMPLIANCE WITH THE FEDERAL INFORMATION SECURITY MANAGEMENT ACT OF 2002.

“ALL IA SHALL BE IN COMPLIANCE WITH THE FOLLOWING LISTED INSTRUCTIONS TO INCLUDE THOSE REFERENCED WITHIN THE BELOW LISTING:

- SECNAV M-5239.1 DON INFORMATION ASSURANCE PROGRAM; INFORMATION ASSURANCE MANUAL
- NAVYIA PUB 5239-02 –TERMS, ABBREVIATIONS, AND ACRONYMS
- CJCSI 6211.02 (SERIES) – DEFENSE INFORMATION SYSTEM NETWORK (DISN): POLICY RESPONSIBILITIES AND PROCESSES OF 31 JULY 2003
- CJCSI 6212.01 (SERIES) – INTEROPERABILITY AND SUPPORTABILITY OF INFORMATION TECHNOLOGY AND NATIONAL SECURITY SYSTEMS
- CJCSI 6250.01 (SERIES) – SATELLITE COMMUNICATIONS
- CJCSI 6250.01 (SERIES) – POLICY FOR DEPARTMENT OF DEFENSE VOICE NETWORKS
- DODD 8100.1 – GLOBAL INFORMATION GRID (GIG) OVERARCHING POLICY
- DODI 8500.2 – INFORMATION ASSURANCE IMPLEMENTATION
- DODI 8510.BB – DOD INFORMATION ASSURANCE CERTIFICATION AND ACCREDITATION PROCESS (DIACAP) (DRAFT)
- DODI M-8510.1 – DOD INFORMATION TECHNOLOGY SECURITY CERTIFICATION AND ACCREDITATION PROCESS (DITSCAP) APPLICATION MANUAL

· DODI 5200.40, “DOD IT SECURITY CERTIFICATION AND ACCREDITATION (C&A) PROCESS (DITSCAP),” 30 DEC 1997

· CNO N614/HQMC C4—NAVY-MARINE CORPS UNCLASSIFIED TRUSTED NETWORK PROTECTION (UTN-PROTECT) POLICY, VERSION 1.0, 31 OCTOBER 2002”

FOR MORE INFORMATION ON DETERMINING THE APPLICABILITY OF THESE DOCUMENTS TO THE SPECIFIC REQUIREMENTS OF YOUR PROGRAM, CONTACT YOUR LOCAL INFORMATION ASSURANCE POINT OF CONTACT FOR ASSISTANCE. AN IA POC IS AVAILABLE VIA THE NAVAIR PORTAL AT

<HTTPS://AIR74.NAVAIR.NAVY.MIL>

7. ENTERPRISE ARCHITECTURE

CONTRACTOR NETWORKS AND CONNECTIONS. CONTRACTOR-OWNED AND OPERATED NETWORKS ARE PROHIBITED ON ANY NAVAL AIR SYSTEMS COMMAND (NAVAIR) FACILITY OR SITE IN SUPPORT OF THIS

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CONTRACT. ALL IT SYSTEMS AND NETWORKS OPERATED BY CONTRACTORS ON BEHALF OF NAVAIR, OR IN SUPPORT OF NAVAIR CONTRACTS, REGARDLESS OF THE LEVEL OF DATA PROCESSED, WILL BE OPERATED AND IN ACCORDANCE WITH ALL CURRENT DOD, IA, AND COMMAND POLICIES AND PROCEDURES.

DOD NETWORKS. CONTRACTOR-OWNED EQUIPMENT SHALL BE PERMITTED CONNECTIONS TO NAVAIR/DOD NETWORKS IN ORDER TO CARRY OUT THE PERFORMANCE OF THIS CONTRACT. ALL CONTRACTOR-OWNED HARDWARE AND/OR SOFTWARE SHALL MEET THE FOLLOWING SPECIFIC CRITERIA BEFORE BEING CONNECTED TO ANY DOD OR NAVAIR NETWORK IN SUPPORT OF THIS CONTRACT. REQUIREMENTS INCLUDE:

A. NETWORK VULNERABILITY SCANNING. EVERY SYSTEM THAT CONNECTS TO A DOD NETWORK (EITHER PHYSICALLY OR LOGICALLY) SHALL BE AUDITED PRIOR TO CONNECTION. NAVAIR (AIR-5.4.1) PERSONNEL SHALL BE RESPONSIBLE FOR CONDUCTING THE AUDIT USING ONLY NAVAIR DEVELOPMENTAL DESIGNATED ACCREDITATION AUTHORITY (DDAA) AUTHORIZED AUDITING TOOLS AND SHALL PROVIDE FOR FIREWALL/PORT SCANS, DEVICE DISCOVERY SCAN, VULNERABILITY ASSESSMENT, AND OTHER REQUIREMENTS AS IDENTIFIED BY NAVAIR DDAA. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMEDIATION OF ANY EQUIPMENT THAT FAILS THESE AUDITS PRIOR TO THE CONNECTION THE SYSTEM TO THE NETWORKS;

B. EXTENT OF VULNERABILITY SCANNING. TO PREVENT SCANNING OF "CORPORATE" ASSETS, ALL SUCH NETWORKS, EQUIPMENT, AND CONNECTIONS SHALL BE PHYSICALLY SEGREGATED FROM ANY GOVERNMENT/CONTRACTOR "CORPORATE" NETWORKS THAT ARE NOT IN DIRECT SUPPORT OF DOD CONTRACTS.

C. OPERATING PROCEDURES. THE CONTRACTOR MUST COMPLY WITH AIR-5.4.1/AIR-7.2 APPROVED STANDARD OPERATING PROCEDURES FOR CONNECTING CONTRACTOR OWNED DEVICES TO NAVY NETWORKS;

D. CIRCUIT PROVISIONING. ANY CIRCUIT OR CONNECTION BETWEEN NAVAIR AND/OR DOD SITE AND THE CONTRACTOR SITE SHALL BE PROVISIONED BY THE DEFENSE INFORMATION SYSTEMS AGENCY (DISA);

E. SERVICING SYSTEMS FROM A REMOTE CONTRACTOR SITE. REMOTE ACCESS SERVICE CONNECTIONS THAT ALLOW OFF-STATION OPERATION AND/OR ADMINISTRATION OF CONTRACTOR OWNED SYSTEMS, LOCATED AT ANY NAVAIR FACILITY OR SITE, SHALL NOT BE PERMITTED;

F. MEMORANDUM OF AGREEMENT. AN INFORMATION ASSURANCE MEMORANDUM OF AGREEMENT (MOA) BETWEEN THE CONTRACTOR OWNING THE EQUIPMENT AND AIR-7.2.6 SHALL BE DEVELOPED AND SIGNED BEFORE THE EQUIPMENT CAN BE CONNECTED TO NAVAIR NETWORKS. FAILURE TO COMPLY WITH THE SIGNED MOA SHALL BE GROUNDS FOR DISCONNECTION FROM THE NETWORK

DISCLOSURE OF EXISTING NETWORKS, CIRCUITS, OR CONNECTIONS. ANY AND ALL NETWORKS, CIRCUITS, OR CONNECTIONS BETWEEN THE CONTRACTOR AND ANY NAVAIR SITE SHALL BE IDENTIFIED IN THE MOA. FAILURE TO COMPLY AND SUBSEQUENT DISCOVERY OF AN UNREGISTERED NETWORK, CIRCUIT, OR CONNECTION SHALL BE GROUNDS FOR IMMEDIATE DISCONNECTION.

IT APPROVAL. THE CONTRACTOR SHALL NOT PURCHASE ANY IT EQUIPMENT ON BEHALF OF NAVAIR IN SUPPORT OF A CONTRACT WITHOUT A NAVAIR CIO SIGNED IT APPROVAL.

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SECTION D PACKAGING AND MARKING

5252.247-9507 PACKAGING AND MARKING OF REPORTS (NAVAIR) (OCT 2005)

(a) All unclassified data shall be prepared for shipment in accordance with best commercial practice. Classified reports, data and documentation, if any, shall be prepared for shipment in accordance with the National Industry Security Program Operating Manual, DoD 5220.22-M.

(b) The contractor shall prominently display on the cover of each report the following information:

- (1) Name and business address of contractor.
- (2) Contract Number/Delivery/Task order number.
- (3) Contract/Delivery/Task order dollar amount.
- (4) Whether the contract was competitively or non-competitively awarded.
- (5) Name of sponsoring individual.
- (6) Name and address of requiring activity.

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SECTION E INSPECTION AND ACCEPTANCE

Inspection and Acceptance

Inspection and Acceptance for CLIN 1000 through 6003 shall be in accordance with Section E of the SeaPort-e Multiple Award IDIQ contract and supplemented by the following performance assessment standard:

Task Order Performance Standard:

Monthly status reports submitted to the Task Order Manager under subject Task Order shall identify the work that had been performed during the month, deliverables that had been submitted, and the name of the Government representative that had received the deliverable. The Task Order Manager will be required on a monthly basis to rate the quality of deliverables in terms of timeliness and quality on a rating scale of one (1) to five (5). The rating scale is specified in the table and defined below:

Rating Number Rating Description

5 Significantly Exceeds Expectation

4 Exceeds Expectation

3 Meets Expectation

2 Barely Meets Expectation

1 Fails to Meet Expectation

Task Order acceptance will be made by the Task Order Manager upon the Contractor having achieved an overall rating of all deliverables, of "Meets Expectation" or better.

Rating Definitions:

Significantly Exceeds Expectation: Deliverables are completed on or prior to their respective due date 100% of the time without further revisions being required.

Exceeds Expectation: Deliverables are completed on or prior to their respective due date 100% of the time with only minor revisions being required on approximately 5% of items submitted. The required rework does not negatively impact upon the respective program.

Meets Expectation: Deliverables are completed on or prior to their respective due date 100% of the time with minor revisions being required on approximately 10% of items submitted. The required rework does not negatively impact upon the respective program.

Barely Meets Expectation: Deliverables are completed on or prior to their respective due date approximately 95% of the time with minor revisions being required on approximately 15% of items submitted. The delayed submission and required rework of deliverables results in a minor negative impact to the respective program.

Fails to Meet Expectation: Deliverables are completed on or prior to their respective due date less than 90% of the time with significant revisions being required on greater than 15% of items submitted. The delayed submission and required rework of deliverables results in a significant negative impact to the respective program.

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(a) The official(s) designated in paragraph (b) shall be responsible for appropriate surveillance of all services to be performed under this contract. In so doing, such official(s) shall (1) review the accuracy and approve or disapprove the contractor's time and attendance records of all workers assigned under the contract, and (2) make frequent periodic visits to the work site to check on the presence of workers whose time is charged thereto.

(b) Name: Jose Gutierrez

Activity: AIR 4.1.2

Address: 22347 Cedar Point Road Unit 6
Patuxent River, MD 20670

Phone: (301) 342-2274

(c) When performance is at a Government site, the contractor's representative shall contact the Government representative named above upon arrival and departure from the work site. If access to a security area is required, the designated Government representative will provide continuous escort service for the contractor's representative.

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SECTION F DELIVERABLES OR PERFORMANCE

CLIN - DELIVERIES OR PERFORMANCE

The periods of performance for the following firm items are from date of task order award through 12 months thereafter, estimated at:

1000	3/10/2008 - 3/9/2009
1001	3/10/2008 - 3/9/2009
3000	3/10/2008 - 3/9/2009

The period of performance for the following option items are from date of option exercise through 12 months thereafter, estimated at:

4000	3/10/2009 - 3/9/2010
4001	3/10/2010 - 3/9/2011
4002	3/10/2011 - 3/9/2012
4003	3/10/2012 - 3/9/2013
6000	3/10/2009 - 3/9/2010
6001	3/10/2010 - 3/9/2011
6002	3/10/2011 - 3/9/2012
6003	3/10/2012 - 3/9/2013

Services to be performed hereunder will be provided at (insert specific address and building etc.)

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SECTION G CONTRACT ADMINISTRATION DATA

5252.232-9510 PAYMENT OF FIXED FEE (NAVAIR) (OCT 2005)

(a) The fixed fee, as specified in Section B of this contract, subject to any adjustment required by other provisions of this contract, will be paid in installments. The fixed fee will be paid not more frequently than [insert bi-weekly or monthly] based on the allowable cost. The amount of each such installment shall be in the same ratio to the total fixed fee as the [insert "net direct labor hours expended during the installment period is to direct labor hours specified in the clause entitled "Level of Effort" or the dollars per hour (based on the fixed fee divided by the level of effort in hours)" if a level of effort contract; or "related provisional payment on account of allowable cost is to the total estimated cost of the contract or order" if a completion contract]. Payment shall be made in accordance with FAR Clauses 52.216-7, "Allowable Cost and Payment", and 52.216-8, "Fixed Fee".

(b) In the event of termination of the work in accordance with the FAR Clause 52.232-22, "Limitation of Funds", the fixed fee shall be redetermined by mutual agreement equitably to reflect the reduction of the work performed. The amount by which such fixed fee is less than or exceeds payments previously made on account of fee, shall be paid to (or repaid by) the contractor.

(c) The balance of the fixed fee shall be payable in accordance with other clauses of this contract.

(d) For indefinite delivery type contracts the terms of this clause apply to each delivery/task order there under.

5252.232-9513 INVOICING INSTRUCTIONS AND PAYMENT (WAWF INSTRUCTIONS) (MAR 2006)

(a) Invoices for goods received or services rendered under this contract shall be submitted electronically through Wide Area Work Flow – Receipt and Acceptance (WAWF):

(1) The vendor shall self-register at the web site <https://wawf.eb.mil>. Vendor training is available on the Internet at <http://www.wawftraining.com>. Additional support can be obtained by calling the NAVY WAWF Assistance Line: 1-800-559-WAWF (9293).

(2) WAWF Vendor "Quick Reference" Guides are located at the following web site:
<http://www.acquisition.navy.mil/navyaos/content/view/full/3521>

(3) Select the invoice type within WAWF as specified below. Back up documentation (such as timesheets, etc.) can be included and attached to the invoice in WAWF. Attachments created in any Microsoft Office product are attachable to the invoice in WAWF. Total limit for the size of files per invoice is 5 megabytes.

(b) The following information, regarding invoice routing DODAAC's, must be entered for completion of the invoice in WAWF:

WAWF Invoice Type: Access the following web site for information on invoice types: http://www.wawftraining.com/courses/_content_package/content_files/menuTree.html Click on Vendor, then Determine Type of Document to Create.

Issuing Office DODAAC: N00421

Admin Office DODAAC: See block 6 of Task Order front page.

Inspector DODAAC (if applicable): N00421

Ship To DODAAC (for Combo), Service Acceptor DODAAC (for 2 in 1), Service Approver DODAAC (for Final Cost Voucher) (if applicable): N00421

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Acceptor DODAAC (if applicable): N00421

Local Processing Office : N/A Leave Blank

DCAA Office DODAAC (Cost Voucher Approver – if applicable): HAA310

Paying Office DODAAC: See Block 12 of Task Order front page.

(c) The contractor shall submit invoices / cost vouchers for payment per contract terms. Contractors approved by DCAA for direct billing will not process vouchers through DCAA, but may submit directly to DFAS. Final voucher submission will be approved by the ACO.

(d) The Government shall process invoices / cost vouchers for payment per contract terms.

(e) For each invoice / cost voucher submitted for payment, the contractor shall also email the WAWF automated invoice notice directly to the following points of contact:

Jose Guterrez, Jose.Gutierrez@navy.mil, (301) 342-2274 Task Order Manager

5252.242-9511 CONTRACT ADMINISTRATION DATA (NAVAIR) (OCT 2005)

(a) Contract Administration Office.

(1) Contract administration functions (see FAR 42.302 and DFARS 242.302) are assigned to: [insert the office title, address, phone, fax and e-mail address of the office receiving administration responsibility.]

(2) Contract administration functions withheld, additional contract administration functions assigned, or special instructions (see FAR 42.202) are: [insert the appropriate information concerning functions withheld or additional functions assigned.]

(3) The Accounting Classification Reference Numbers (ACRN) assigned by the [insert Naval Air Systems Command or other appropriate information] shall be used in applicable contract modifications or orders or modifications thereto issued by the cognizant contract administration office. If no ACRN is assigned by [insert Naval Air Systems Command or other appropriate information], the contract administration office may assign a two-position ACRN that can be either alpha-numeric (A1 through B9 and continuing, if necessary through Z9, excluding the letters "I" and "O") or alpha (AA through ZZ, excluding the letters "I" and "O"), (see DFARS 204.7101).

(b) PCO Quality Assurance Representative. Any quality assurance questions, comments, problems, recommendations, etc., which cannot be resolved at the Administrative Contracting Officer (ACO) Quality Assurance Representative (QAR) level should be communicated to the Procuring Contracting Officer (PCO) QAR designated below: [insert address, phone, fax and e-mail address of PCO QAR]

(c) Inquiries regarding payment should be referred to: the DFAS Vendor Pay Inquiry System (VPIS) at <http://www.dfas.mil/money/vendor/>. Payment information can be traced using the contract number, check number, CAGE code, DUNS number, or invoice number. The information is available for 90 days after payment is made.

TASK ORDER MANAGER (TOM) APPOINTMENT (JUL 2005)

(a) The Task Order Contracting Officer hereby appoints the following individual as the Task Order Manger (TOM) for this task order:

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Name: **Jose Gutierrez**

Code: 4.1.2

E-mail: Jose.Gutierrez@navy.mil

Mailing Address: 22347 Cedar Point Road Unit 6
Patuxent River, MD 20670

Telephone: (301) 342-2274

(b) The TOM is responsible for those specific functions assigned in the Task Order Manager appointment letter.

(c) Only the Task Order Contracting Officer has the authority to modify the terms of the task order. Therefore, in no event will any understanding, agreement, modification, change order, or other matter deviating from the terms of the basic contract or this task order between the contractor and any other person be effective or binding on the Government. If, in the opinion of the contractor, an effort outside the existing scope of this task order is requested, the contractor shall promptly notify the Task Order Contracting Officer in writing. No action shall be taken by the contractor unless the Task Order Contracting Officer, PCO or ACO has issued a formal modification.

5252.232-9516 ALLOTMENT OF FUNDS- INCREMENTALLY FUNDED COST-REIMBURSEMENT CONTRACT OTHER THAN COST-SHARING CONTRACT (NAVAIR) (JUL 1985) - ALT I (OCT 2005)

(a) The amount available for payment and allotted to this incrementally funded contract is:

Funded Cost \$15,173,098.00

Funded Fee \$744,860.06

TOTAL FUNDS \$15,849,958.06

(b) This contract is incrementally funded and the amount currently available for payment is limited to \$15,849,958.06 which includes a fixed fee amount of \$744,860.06. Subject to the provisions of the clause entitled "Limitation of Funds" (FAR 52.232-22) of the General Provisions of the Contract, no legal liability on the part of the Government for payment in excess of the revised total shall arise unless additional funds are made available and incorporated in a contract modification.

(c) the items covered by such amount are Item(s)CLIN 1000 and 3000.

(d) the period of performance for which it is estimated the allotted amount will cover is March 10, 2008 through August 21, 2008.

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SLINID	PR Number	Amount	
100001	1300099785	163363.00	
LLA :			
AA 1781506 Y5BP 251 00019 0 050120 2D 000000 Code Code HQ018PR03847 CIN 13000997850000			
1			
100002	1300100324	72000.00	
LLA :			
AB 97X4930 NH2A 252 77777 0 050120 2F 000000 Code Code WC018PR01455 CIN 13001003240000			
1			
100003	1300100325	75000.00	
LLA :			
AC 97X4930 NH2A 252 77777 0 050120 2F 000000 Cost Code WC018PR01456 CIN 13001003250001			
100004	1300100327	175000.00	
LLA :			
AD 97X4930 NH2A 252 77777 0 050120 2F 000000 Cost Code WC018PR01458 CIN 13001003270000			
1			
100005	1300100328	174367.00	
LLA :			
AE 97X4930 NH2A 252 77777 0 050120 2F 000000 Cost Code WC018PR01461 CIN 13001003280000			
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100006	1300100329	100000.00	
LLA :			
AF 97X4930 NH2A 252 77777 0 050120 2F 000000 Cost Code WC018PR01462 CIN 13001003290000			
1			
100007	1300100371	88000.00	
LLA :			
AG 97X4930 NH2A 252 77777 0 050120 2F 000000 Cost Code WC018PR01464 CIN 13001003710000			
1			
100008	1300100372	15000.00	
LLA :			
AH 97X4930 NH2A 252 77777 0 050120 2F 000000 Cost Code WC018PR01465 CIN 13001003720000			
1			
100009	1300100373	153400.00	
LLA :			
AJ 97X4930 NH2A 252 77777 0 050120 2F 000000 Cost Code WC018PR01466 CIN 13001003730000			
1			
100010	1300100502	165161.00	
LLA :			
AK 97X4930 NH2A 252 77777 0 050120 2F 000000 Cost Code WC018PR01492 CIN 13001005020000			
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100011	1300100410	197136.00	
LLA :			
AL 97X4930 NH2A 252 77777 0 050120 2F 000000 Cost Code WC018PR01491 CIN 13001004100000			
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100012	1300100510	30000.00	
LLA :			
AM 97X4930 NH2A 252 77777 0 050120 2F 000000 Cost Code WC018PR01503 CIN 13001005100000			
1			
100013	1300100531	31000.00	
LLA :			
AP 97X4930 NH2A 252 77777 0 050120 2F 000000 Cost Code WC018PR01504 CIN 13001005310000			
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100014	1300100503	25000.00	
LLA :			
AQ 97X4930 NH2A 252 77777 0 050120 2F 000000 Cost Code WC018PR01493 CIN 13001005030000			
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100015	1300100246	217650.00	
LLA :			
AR 97X4930 NH2A 252 77777 0 050120 2F 000000 Cost Code WC018PR01432 CIN 13001002460000			
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100016	1300100247	17144.00	

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LLA :
AS 97X4930 NH2A 252 77777 0 050120 2F 000000 Cost Code WC018PR01433 CIN 13001002470000
1

100017 1300100443 125000.00
LLA :
AT 97X4930 NH2A 252 77777 0 050120 2F 000000 Cost Code WC018PR01474 CIN 13001004430000
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LLA :
AU 97X4930 NH2A 252 77777 0 050120 2F 000000 Cost Code WC018PR01478 CIN 13001004470000
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LLA :
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LLA :
AX 97X4930 NH2A 252 77777 0 050120 2F 000000 Cost Code WC018PR01481 CIN 13001004610000
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AY 97X4930 NH2A 252 77777 0 050120 2F 000000 Cost Code WC018PR01482 CIN 13001004620000
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LLA :
BA 97X4930 NH2A 252 77777 0 050120 2F 000000 Cost Code WC018PR01484 CIN 13001004650000
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BB 97X4930 NH2A 252 77777 0 050120 2F 000000 Cost Code WC018PR01435 CIN 13001002480000
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300001 1300100502 3500.00
LLA :
AK 97X4930 NH2A 252 77777 0 050120 2F 000000 Cost Code WC018PR01492 CIN 13001005020000
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300002 1300100506 27000.00
LLA :
AN 97X4930 NH2A 252 77777 0 050120 2F 000000 Cost Code WC018PR01498 CIN 13001005060000
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MOD 1

100026 14400.00
LLA :
BC 97X4930 NH2A 252 77777 0 050120 2F 000000 Cost Code WC018PR01740 CIN 13001013130000
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100027 40000.00
LLA :
BD 97X4930 NH2A 252 77777 0 050120 2F 000000 Cost Code WC018PR01743 CIN 13001013140000
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100028 80740.00
LLA :
BE 97X4930 NH2A 252 77777 0 050120 2F 000000 Cost Code WC018PR01748 CIN 13001013190000
1

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100029 50000.00
 LLA :
 BG 1781804 4A4N 251 00019 0 050120 2D 000000 Cost Code HQ018PR04411 CIN 13001006960000
 1

100030 50000.00
 LLA :
 BH 1781804 4A4N 251 00019 0 050120 2D 000000 Cost Code HQ018PR04413 CIN 13001006970000
 1

100031 50000.00
 LLA :
 BJ 1781804 4A4N 251 00019 0 050120 2D 000000 Cost Code HQ018PR04431 CIN 13001006990000
 1

100032 96400.00
 LLA :
 BK 1781319 4748 251 00019 0 050120 2D 000000 Cost Code HQ018PR04127 CIN 13001003010000
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100033 36400.00
 LLA :
 BL 1781319 44CX 251 00019 0 050120 2D 000000 Cost Code HQ018PR04128 CIN 13001003030000
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100034 141000.00
 LLA :
 BM 1781804 4A4N 251 00019 0 050120 2D 000000 Cost Code HQ018PR04185 CIN 13001003800000
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100035 50000.00
 LLA :
 BN 1781804 4A4N 251 00019 0 050120 2D 000000 Cost Code HQ018PR04123 CIN 13001002840000
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100036 70875.00
 LLA :
 BP 97X4930 NH2A 252 77777 0 050120 2F 000000 Cost Code WC018PR01560 CIN 13001006900001

100037 744834.00
 LLA :
 BQ 1781319 U5WP 251 00019 0 050120 2D 000000 Cost Code HQ018PR04433 CIN 13001007050000
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300003 3400.00
 LLA :
 BF 97X4930 NH2A 252 77777 0 050120 2F 000000 Cost Code WC018PR01749 CIN 13001013200000
 1

300004 3600.00
 LLA :
 BK 1781319 4748 251 00019 0 050120 2D 000000 Cost Code HQ018PR04127 CIN 13001003010000
 1

300005 3600.00
 LLA :
 BL 1781319 44CX 251 00019 0 050120 2D 000000 Cost Code HQ018PR04128 CIN 13001003030000
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300006 46000.00
 LLA :
 BQ 1781319 U5WP 251 00019 0 050120 2D 000000 Cost Code HQ018PR04433 CIN 13001007050000
 1

MOD 2

100038 260852.00
 LLA :
 BR 1781804 4A4N 251 00019 0 050120 2D 000000 Cost Code HQ018PR04458 CIN 13001007340000
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100039 94450.00
 LLA :
 BS 1781506 Y5C9 251 00019 0 050120 2D 000000 Cost Code HQ018PR04174 CIN 13001003750000
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100040 50000.00
 LLA :
 BU 1781319 W7KY 000 RAG1G 0 068342 2D 000000 Cost Code 03126000RT20 CIN 13001028210000
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100041 173000.00
 LLA :
 BV 1781804 4A4N 251 00019 0 050120 2D 000000 Cost Code HQ018PR04182 CIN 13001003770000
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300007 15000.00
 LLA :
 BT 1781804 4A4N 251 00019 0 050120 2D 000000 Cost Code HQ018PR04460 CIN 13001007350000
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MOD 3

100042 100000.00
 LLA :
 BW 97X4930 NH2A 255 77777 0 050120 2F 000000 Cost Code WC018PR02428 CIN 13001035170000
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100043 639062.00
 LLA :
 BX 1781506 U1SH 251 00019 0 050120 2D 000000 Cost Code HQ018PR05706 CIN 13001032730000
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100044 134218.90
 LLA :
 BY 1771506 45BT 251 00019 0 050120 2D 000000 Cost Code HQ018PR05521 CIN 13001028080000
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100045 75000.00
 LLA :
 BZ 97X4930 NH2A 252 77777 0 050120 2F 000000 Cost Code WC018PR02476 CIN 13001036990000
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100046 106800.00
 LLA :
 CA 97X4930 NH2A 252 77777 0 050120 2F 000000 Cost Code WC018PR02478 CIN 13001037220000
 1

100047 92206.00
 LLA :
 CB 97X4930 NH2A 252 77777 0 050120 2F 000000 Cost Code WC018PR02480 CIN 13001037240000
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100048 18685.00
 LLA :
 CC 97X4930 NH2A 252 77777 0 050120 2F 000000 Cost Code WC018PR02500 CIN 13001037830000
 1

100049 37440.00
 LLA :
 CD 1781804 4A4N 251 00019 0 050120 2D 000000 Cost Code HQ018PR03774 CIN 13000996920000
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100050 150000.00
 LLA :
 CE 1781804 4A4N 251 00019 0 050120 2D 000000 Cost Code HQ018PR03118 CIN 13000987080000
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100051 46700.00
 LLA :
 CF 1781804 4A4N 251 00019 0 050120 2D 000000 Cost Code HQ018PR05457 CIN 13001026430000
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100052 30300.00
 LLA :
 CG 1781804 4A4N 251 00019 0 050120 2D 000000 Cost Code HQ018PR05452 CIN 13001026410000
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300008 38098.00
 LLA :
 BX 1781506 U1SH 251 00019 0 050120 2D 000000 Cost Code HQ018PR05706 CIN 13001032730000
 2

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300009 4200.00
 LLA :
 CA 97X4930 NH2A 252 77777 0 050120 2F 000000 Cost Code WC018PR02478 CIN 13001037220000
 2

300010 24000.00
 LLA :
 CF 1781804 4A4N 251 00019 0 050120 2D 000000 Cost Code HQ018PR05457 CIN 13001026430000
 2

300011 11500.00
 LLA :
 CH 97X4930 NH2A 252 77777 0 050120 2F 000000 Cost Code WC018PR02481 CIN 13001037260000
 1

MOD 4

100053 242000.00
 LLA :
 CJ 1781319 U5WP 255 00019 0 050120 2D 000000 Cost Code HQ018PR06166 CIN 13001041180000
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100054 202298.00
 LLA :
 CK 97X4930 NH2A 252 77777 0 050120 2F 000000 Cost Code WC018PR03028 CIN 13001054820000
 1

100055 54002.00
 LLA :
 CK 97X4930 NH2A 252 77777 0 050120 2F 000000 Cost Code WC018PR03028 CIN 13001054820000
 2

100056 241834.00
 LLA :
 CL 97X4930 NH2A 252 77777 0 050120 2F 000000 Cost Code WC018PR03029 CIN 13001054840000
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100057 114316.00
 LLA :
 CL 97X4930 NH2A 252 77777 0 050120 2F 000000 Cost Code WC018PR03029 CIN 13001054840000
 2

100058 34000.00
 LLA :
 CM 97X4930 NH2A 252 77777 0 050120 2F 000000 Cost Code WC018PR03030 CIN 13001054850000
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100059 317428.34
 LLA :
 CN 97X4930 NH2A 252 77777 0 050120 2F 000000 Cost Code WC018PR03032 CIN 13001054860000
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100060 448999.99
 LLA :
 CP 1781804 4A4N 251 00019 0 050120 2D 000000 Cost Code HQ018PR06773 CIN 13001053970000
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100061 100000.01
 LLA :
 CQ 1781804 4A4N 251 00019 0 050120 2D 000000 Cost Code HQ018PR06778 CIN 13001053980000
 1

100062 75477.00
 LLA :
 CR 1781804 4A4N 251 00019 0 050120 2D 000000 Cost Code HQ018PR06818 CIN 13001054910000
 1

100063 34200.00
 LLA :
 CS 97X4930 NH2A 252 77777 0 050120 2F 000000 Cost Code WC018PR03067 CIN 13001056290000
 1

300012 65791.45
 LLA :
 CN 97X4930 NH2A 252 77777 0 050120 2F 000000 Cost Code WC018PR03032 CIN 13001054860000

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LLA :
CY 97X4930 NH2A 252 77777 0 05120 2F 000000 Cost Code WC018PR03882 CIN 130010818600001
Standard Number: WC018PR03882
130010818600001

100073 1300108187 35000.00

LLA :
CZ 97X4930 NH2A 252 77777 0 05120 2F 000000 Cost Code WC018PR03883 CIN 130010818700001
Standard Number: WC018PR03883
130010818700001

100074 1300108188 50000.00

LLA :
DA 97X4930 NH2A 252 77777 0 05120 2F 000000 Cost Code WC018PR03886 CIN 130010818800001
Standard Number: WC018PR03886
130010818800001

100075 1300108189 250000.00

LLA :
DB 97X4930 NH2A 252 77777 0 05120 2F 000000 Cost Code WC018PR03887 CIN 130010818900001
Standard Number: WC018PR03887
130010818900001

100076 1300108190 60000.00

LLA :
DC 97X4930 NH2A 252 77777 0 05120 2F 000000 Cost Code WC018PR03888 CIN 130010819000001
Standard Number: WC018PR03888
130010819000001

100077 1300108185 30000.00

LLA :
DD 97X4930 NH2A 252 77777 0 05120 2F 000000 Cost Code WC018PR03881 CIN 130010818500001
Standard Number: WC018PR03881
130010818500001

100078 1300108255 89599.00

LLA :
DE 97-11X8242 2862 000 74622 0 065916 2D PJAB44 Cost Code 601260060FEZ CIN 13001082525
500001
Standard Number: 601260060FEZ
13001082525500001

100079 1300108255 6970.00

LLA :
DE 97-11X8242 2862 000 74622 0 065916 2D PJAB44 Cost Code 601260060FEZ CIN 13001082525
500004
Standard Number: 601260060FEZ
13001082525500004

100080 1300108258 63966.00

LLA :
DF 97-11X8242 2842 000 74422 0 065916 2D PBRB54 Cost Code 703980080GUU CIN 13001082580
0001
Standard Number: 703980080GUU
130010825800001

100081 1300108258 4928.00

LLA :
DF 97-11X8242 2842 000 74422 0 065916 2D PBRB54 Cost Code 703980100GUU CIN 13001082580
0003
Standard Number: 601260060FEZ
130010825800003

100082 1300108291 62500.00

LLA :
DG 97X4930 NH2A 252 77777 0 05120 2F 000000 Cost Code WC018PR03911 CIN 130010829100001
Standard Number: WC018PR03911
130010829100001

100083 1300108221 100000.00

LLA :
DH 97X4930 NH2A 252 77777 0 05120 2F 000000 Cost Code WC018PR03889 CIN 130010822100001
Standard Number: WC018PR03889
130010822100001

100084 1300108641 139999.00

LLA :

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DJ 97X4930 NH2A 252 77777 0 05120 2F 000000 Cost Code A00000001568 CIN 130010864100001
Standard Number: A00000001568
130010864100001

100085 1300108659 25000.00

LLA :

DK 97X4930 NH2A 252 77777 0 05120 2F 000000 Cost Code A00000001903 CIN 130010865900001
Standard Number: A00000001903
130010865900001

100086 1300108520 50272.00

LLA :

DL 1781506 U1SH 251 00019 0 050120 2D 000000 Cost Code A00000000842 CIN 130010852000000
1
Standard Number: A00000000842
130010852000001

100087 1300108277 62791.00

LLA :

DM 97X4930 NH2A 252 77777 0 050120 2F 000000 Cost Code WC018PR03915 CIN 130010827700000
1
Standard Number: WC018PR03915
130010827700001

100088 1300108294 31000.00

LLA :

DN 97X4930 NH2A 252 77777 0 050120 2F 000000 Cost Code WC018PR03914 CIN 130010829400000
1
Standard Number: WC018PR03914
130010829400001

300016 1300108697 788.00

LLA :

CT 97-11X8242 2868 000 74682 0 065916 2D PPKA4N Cost Code 520665240SAV CIN 13001086970
0002
Standard Number: 520665240SAV
130010869700002

300017 1300108698 788.00

LLA :

CU 97-11X8242 2858 000 74582 0 065916 2D PTWB44 Cost Code 802381030SEG CIN 13001086980
0002
Standard Number: 802381030SEG
130010869800002

300018 1300108254 80124.00

LLA :

CV 97-11X8242 2862 000 74622 0 065916 2D PJAB44 Cost Code 601260020FEZ CIN 13001082540
0002
Standard Number: 601260020FEZ
130010825400002

300019 1300108254 27900.00

LLA :

CV 97-11X8242 2862 000 74622 0 065916 2D PJAB44 Cost Code 601260020FEZ CIN 13001082540
0003
Standard Number: 601260020FEZ
130010825400003

300020 1300108260 10666.00

LLA :

CW 97-11X8242 2860 000 74602 0 065916 2D PKSE44 Cost Code 403280470SDJ CIN 13001082600
0002
Standard Number: 403280470SDJ
130010826000002

300021 1300108260 10666.00

LLA :

CW 97-11X8242 2860 000 74602 0 065916 2D PKSE44 Cost Code 403280470SDJ CIN 13001082600
0003
Standard Number: 403280470SDJ
130010826000003

300022 1300108255 10667.00

LLA :

DE 97-11X8242 2862 000 74622 0 065916 2D PJAB44 Cost Code 601260060FEZ CIN 13001082525
500002

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Standard Number: 601260060FEZ
13001082525500002

300023 1300108255 5333.00
LLA :
DE 97-11X8242 2862 000 74622 0 065916 2D PJAB44 Cost Code 601260060FEZ CIN 13001082525
500003

Standard Number: 601260060FEZ
13001082525500003

300024 1300108258 10667.00
LLA :
DF 97-11X8242 2842 000 74422 0 065916 2D PBRB54 Cost Code 703980090GUU CIN 13001082580
0002

Standard Number: 703980090GUU
130010825800002

300025 1300108291 2500.00
LLA :
DG 97X4930 NH2A 252 77777 0 05120 2F 000000 Cost Code WC018PR03911 CIN 130010829100002
Standard Number: WC018PR03911
130010829100002

300026 1300108641 2830.00
LLA :
DJ 97X4930 NH2A 252 77777 0 05120 2F 000000 Cost Code A00000001568 CIN 130010864100002
Standard Number: A00000001568
130010864100002

300027 1300108250 3000.00
LLA :
DL 1781506 U1SH 251 00019 0 050120 2D 000000 Cost Code A00000000842 CIN 13001085200000
2
Standard Number: A00000000842
130010852000002

300028 1300108277 2569.00
LLA :
DM 97X4930 NH2A 252 77777 0 050120 2F 000000 Cost Code WC018PR03915 CIN 13001082770000
2
Standard Number: WC018PR03915
130010827700002

MOD 6

100080 1300108258 30.00
LLA :
DF 97-11X8242 2842 000 74422 0 065916 2D PBRB54 Cost Code 703980080GUU CIN 13001082580
0001
Standard Number: 703980080GUU
130010825800001

100089 1300109614 362308.00
LLA :
DP 97X4930 NH2A 255 77777 0 050120 2F 000000 Cost Code A00000009422 CIN 13001096140000
1

100090 1300109614 50000.00
LLA :
DQ 97X4930 NH2A 255 77777 0 050120 2F 000000 Cost Code A10000009422 CIN 13001096140000
2

100091 1300109615 142000.00
LLA :
DR 97X4930 NH2A 252 77777 0 050120 2F 000000 Cost Code A00000009426 CIN 13001096150000
1

100092 1300109615 60000.00
LLA :
DS 97X4930 NH2A 252 77777 0 050120 2F 000000 Cost Code A10000009426 CIN 1300109615000
02

100093 1300109615 19449.00
LLA :
DT 97X4930 NH2A 252 77777 0 050120 2F 000000 Cost Code A20000009426 CIN 13001096160000
3

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MOD 7

100094 1300110799 300000.00
 LLA :
 DU 97X4930 NH2A 252 77777 0 050120 2F 000000 Cost Code A00000021008 CIN 13001107990000
 1

100095 1300110799 300000.00
 LLA :
 DV 97X4930 NH2A 252 77777 0 050120 2F 000000 Cost Code A10000021008 CIN 13001107990000
 2

100096 1300105911 96200.00
 LLA :
 DW 1781804 4A4N 251 00019 0 050120 2D 00000 Cost Code HQ018PR07006 CIN 13001059110000
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100097 1300110898 13700.00
 LLA :
 DX 97X4930 NH2A 252 77777 0 050120 2F 000000 Cost Code A00000021752 CIN 13001108980000
 1

100098 1300110898 10000.00
 LLA :
 DY 97X4930 NH2A 252 77777 0 050120 2F 000000 Cost Code A10000021752 CIN 13001108980000
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300029 1300105911 20800.00
 LLA :
 DW 1781804 4A4N 251 00019 0 050120 2D 000000 Cost Code HQ018PR07006 CIN 13001059110000
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300030 1300110898 1600.00
 LLA :
 DX 97X4930 NH2A 252 77777 0 050120 2F 000000 Cost Code A00000021752 CIN 13001108980000
 2

MOD 8

100099 130011756 76066.00
 LLA :
 DZ 97X4930 NH2A 252 77777 0 050120 2F 000000 Cost Code A00000031053 CIN 13001117560000
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100101 1300111752 200000.00
 LLA :
 EA 97X4930 NH2A 252 77777 0 050120 2F 000000 Cost Code A00000030881CIN 130011175200001

100102 1300111752 53000.00
 LLA :
 EB 97X4930 NH2A 252 77777 0 050120 2F 00000 Cost Code A10000030881 CIN 130011175200003

100103 130011752 40000.00
 LLA :
 EC 97X4930 NH2A 252 77777 050120 2F 000000 Cost Code A20000030881 CIN 130011175200004

100104 1300111752 100000.00
 LLA :
 ED 97X4930 NH2A 252 77777 0 050120 2F 000000 Cost Code A30000030881 CIN 13001117520000
 5

100105 1300111796 41000.00
 LLA :
 EE 97X4930 NH2A 252 77777 0 050120 2F 000000 Cost Code A00000031181 CIN 13001117960001

300031 1300111752 20000.00
 LLA :
 EA 97X4930 NH2A 252 77777 0 050120 2F 000000 Cost Code A00000030881 CIN 13001117520000
 2

300032 1300111796 2200.00
 LLA :
 EE 97X4930 NH2A 252 77777 0 050120 2F 000000 Cost Code A00000031181 CIN 13001179600002

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MOD 10

100106 1300112573 130000.00
 LLA :
 EF 97X4930 NH2A 252 77777 0 050120 2F 000000 Cost Code A00000038227 CIN 13001125730000
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100107 1300112513 408500.00
 LLA :
 EG 1781804 4A4N 252 00019 0 050120 2D 000000 Cost Code A10000037774 CIN 13001125130000
 2

100108 1300111896 82000.00
 LLA :
 EH 1781804 4A4N 251 00019 0 050120 2D 000000 Cost Code A00000032009 CIN 13001118960000
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100109 1300111895 121000.00
 LLA :
 EJ 97X4930 NH2A 252 77777 0 050120 2F 000000 Cost Code A00000032008 CIN 13001118950000
 1

100110 1300111895 84000.00
 LLA :
 EK 97X4930 NH2A 252 77777 0 050120 2F 000000 Cost Code A10000032008 CIN 13001118950000
 3

100111 1300111895 21000.00
 LLA :
 EL 97X4930 NH2A 252 77777 0 050120 2F 000000 Cost Code A20000032008 CIN 13001118950000
 4

300033 1300112573 10000.00
 LLA :
 EF 97X4930 NH2A 252 77777 0 050120 2F 000000 Cost Code A00000038227 CIN 13001125730000
 2

300034 1300111895 20000.00
 LLA :
 EJ 97X4930 NH2A 252 77777 0 050120 2F 000000 Cost Code A00000032008 CIN 13001118950000
 2

300035 1300113160 99196.00
 LLA :
 EM 97X4930 NH2A 260 77777 0 050120 2F 000000 Cost Code A00000045038 CIN 13001131600000
 1

MOD 11

100033 1300111795 (36400.00)
 LLA :
 BL 1781319 44CX 251 00019 0 050120 2D 000000 Cost Code HQ018PR04128 CIN 13001003030000
 1

MOD 13

100112 1300115700 5800.00
 LLA :
 EN 97X4930 NH2A 252 77777 0 050120 2F 000000 Cost Code A00000072719 CIN 13001157000000
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100113 1300115700 14595.00
 LLA :
 EP 97X4930 NH2A 252 77777 0 050120 2F 000000 Cost Code A10000072719 CIN 13001157000000
 2

100114 1300115700 63000.00
 LLA :
 EQ 97X4930 NH2A 252 77777 0 050120 2F 000000 Cost Code A20000072719 CIN 13001157000000
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100115 1300115700 12678.00
 LLA :
 ER 97X4930 NH2A 252 77777 0 050120 2F 000000 Cost Code A30000072719 CIN 13001157000000

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5

100116 1300115147 14000.00
 LLA :
 ES 1791804 4A4N 251 00019 0 050120 2D 000000 Cost Cost A00000067331 CIN 13001151470000
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100117 1300115147 32850.00
 LLA :
 ET 1791804 4A4N 251 00019 0 050120 2D 000000 Cost Code A10000067331 CIN 13001151470000
 2

100118 1300115147 21000.00
 LLA :
 EU 1791804 4A4N 251 00019 0 050120 2D 000000 Cost Code A20000067331 CIN 13001151470000
 3

300036 1300115700 4000.00
 LLA :
 EQ 97X4930 NH2A 252 77777 0 050120 2F 000000 Cost Code A20000072719 CIN 13001157000000
 4

300037 1300115147 1500.00
 LLA :
 ES 1791804 4A4N 251 00019 0 050120 2D 000000 Cost Code A00000067331 CIN 13001151470000
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MOD 15

100119 1300117151 86185.00
 LLA :
 EV 97X4930 NH2A 252 77777 0 050120 2F 000000 Cost Code A00000087816 CIN 13001171510000
 1

100120 1300117151 89500.00
 LLA :
 EW 97X4930 NH2A 252 77777 0 050120 2F 000000 Cost Code A10000087816 CIN 13001171510000
 3

100121 1300117151 82234.00
 LLA :
 EX 97X4930 NH2A 252 77777 0 050120 2F 000000 Cost Code A20000087816 CIN 13001171510000
 5 & 130011715100007

100122 1300108255 10870.00
 LLA :
 EY 97-11X8242 2862 000 74622 0 065916 2D PJAB44 Cost Code 601260060FEZ CIN 13001082550
 0005

100123 1300108254 269320.00
 LLA :
 EZ 97-11X8242 2862 000 74622 0 065916 2D PJAB44 Cost Code 601260020FEZ CIN 13001082540
 0005

300038 1300117151 2473.85
 LLA :
 EV 97X4930 NH2A 252 77777 0 050120 2F 000000 Cost Code A00000087816 CIN 13001171510000
 2

300039 1300117151 10500.00
 LLA :
 EW 97X4930 NH2A 252 77777 0 050120 2F 000000 Cost Code A10000087816 CIN 13001171510000
 4

300040 1300117151 2466.00
 LLA :
 EX 97X4930 NH2A 252 77777 0 050120 2F 000000 Cost Code A20000087816 CIN 13001171510000
 6 & 130011715100008

300041 1300108254 54597.00
 LLA :
 FA 97-11X8242 2862 000 74622 0 065916 2D PJAB44 Cost Code 601260030FEZ CIN 13001082540
 0006

300042 1300108254 5411.00
 LLA :

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FB 97-11X8242 2862 000 74622 0 065916 2D PJAB44 Cost Code 601260040FEZ CIN 13001082540
0007

MOD 16

100124 1300117386 106000.00
LLA :
FC 97X4930 NH2A 252 77777 0 050120 2F 000000 Cost Code A00000090360 CIN 13001173860000
1

100125 1300117386 27234.00
LLA :
FD 97X4930 NH2A 252 77777 0 050120 2F 000000 Cost Code A10000090360 CIN 13001173860000
2

100126 1300117386 14000.00
LLA :
FE 97X4930 NH2A 252 77777 0 050120 2F 000000 Cost Code A20000090360 CIN 13001173860000
4

100127 1300117175 84000.00
LLA :
FF 97X4930 NH2A 252 77777 0 050120 2F 000000 Cost Code A00000088652 CIN 13001171750000
1/130011717500002

100128 1300117175 140000.00
LLA :
FG 97X4930 NH2A 252 77777 0 050120 2F 000000 Cost Code A10000088652 CIN 13001171750000
3

300043 1300117386 4000.00
LLA :
FD 97X4930 NH2A 252 77777 0 050120 2F 000000 Cost Code A10000090360 CIN 13001173860000
3

300044 1300117386 4000.00
LLA :
FE 97X4930 NH2A 252 77777 0 050120 2F 000000 Cost Code A20000090360 CIN 13001173860000
5

MOD 17

100129 1300117111 51500.00
LLA :
FH 1791804 4A4N 251 00019 0 050120 2D 000000 Cost Code A00000087563 CIN 13001171110000
1

300045 1300117111 5500.00
LLA :
FH 1791804 4A4N 251 00019 0 050120 2D 000000 Cost Code A00000087563 CIN 13001171110000
2

MOD 18

100130 1300118925 17764.58
LLA :
FJ 97X4930 NH2A 252 77777 0 050120 2F 000000 Cost Code A00000103548 CIN 13001189250000
1

100131 1300118925 18849.10
LLA :
FK 97X4930 NH2A 252 77777 0 050120 2F 000000 Cost Code A10000103548 CIN 13001189250000
2

100132 1300118925 37000.00
LLA :
FL 97X4930 NH2A 252 77777 0 050120 2F 000000 Cost Code A20000103548 CIN 13001189250000
3

300046 1300118915 75000.00
LLA :
FM 1781319 W7KY 000 RAG1G 0 068342 2D 000000 Cost Code 03126000RT20 CIN 13001189150000
1

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MOD 19

300047 1300118914 7000.00
LLA :
FN 1791319 U5WP 255 00019 0 050120 2D 000000 Cost Code A00000103300 CIN 13001189140000
1

MOD 20

100133 1300108260 81600.00
LLA :
FP 97-11X8242 2801 000 74012 0 065916 2D PGY044 Cost Code 823080040GOR CIN 13001082600
0006

100134 1300108260 81600.00
LLA :
FQ 97-11X8242 2860 000 74602 0 065916 2D PKSE44 Cost Code 403280470SDJ CIN 13001082600
0005

300048 1300108260 16320.00
LLA :
FR 97-11X8242 2801 000 74012 0 065916 2D PGY044 Cost Code 823080050GOR CIN 13001082600
007

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SECTION H SPECIAL CONTRACT REQUIREMENTS

5252.209-9510 ORGANIZATIONAL CONFLICTS OF INTEREST (NAVAIR) (SERVICES)(OCT 2005)

(a) Purpose. This clause seeks to ensure that the contractor (1) does not obtain an unfair competitive advantage over other parties by virtue of its performance of this contract, and (2) is not biased because of its current or planned interests (financial, contractual, organizational or otherwise) that relate to the work under this contract.

(b) Scope. The restrictions described herein shall apply to performance or participation by the contractor (as defined in paragraph (d)(7)) in the activities covered by this clause.

(1) The restrictions set forth in paragraph (e) apply to supplies, services, and other performance rendered with respect to the suppliers and/or equipment listed in Attachment [insert attachment number]. [insert either "Task orders issued under the contract" or "The contract"] will specify to which suppliers and/or equipment subparagraph (f) restrictions apply.

(2) The financial, contractual, organizational and other interests of contractor personnel performing work under this contract shall be deemed to be the interests of the contractor for the purposes of determining the existence of an Organizational Conflict of Interest. Any subcontractor that performs any work relative to this contract shall be subject to this clause. The contractor agrees to place in each subcontract affected by these provisions the necessary language contained in this clause.

(c) Waiver. Any request for waiver of the provisions of this clause shall be submitted in writing to the Procuring Contracting Officer. The request for waiver shall set forth all relevant factors including proposed contractual safeguards or job procedures to mitigate conflicting roles that might produce an Organizational Conflict of Interest. No waiver shall be granted by the Government with respect to prohibitions pursuant to access to proprietary data.

(d) Definitions. For purposes of application of this clause only, the following definitions are applicable:

(1) "System" includes system, major component, subassembly or subsystem, project, or item.

(2) "Nondevelopmental items" as defined in FAR 2.101.

(3) "Systems Engineering" (SE) includes, but is not limited to, the activities in FAR 9.505-1(b).

(4) "Technical direction" (TD) includes, but is not limited to, the activities in FAR 9.505-1(b).

(5) "Advisory and Assistance Services" (AAS) are those services acquired from non-governmental sources to support or improve agency policy development or decision making; or, to support or improve the management of organizations or the operation of hardware systems. Such services may encompass consulting activities, engineering and technical services, management support services and studies, analyses and evaluations.

(6) "Consultant services" as defined in FAR 31.205-33(a).

(7) "Contractor", for the purposes of this clause, means the firm signing this contract, its subsidiaries and affiliates, joint ventures involving the firm, any entity with which the firm may hereafter merge or affiliate, and any other successor or assignee of the firm.

(8) "Affiliates," means officers or employees of the prime contractor and first tier subcontractors involved in the program and technical decision-making process concerning this contract.

(9) "Interest" means organizational or financial interest.

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(10) "Weapons system supplier" means any prime contractor or first tier subcontractor engaged in, or having a known prospective interest in the development, production or analysis of any of the weapon systems, as well as any major component or subassembly of such system.

(e) Contracting restrictions.

[] (1) To the extent the contractor provides systems engineering and/or technical direction for a system or commodity but does not have overall contractual responsibility for the development, the integration, assembly and checkout (IAC) or the production of the system, the contractor shall not (i) be awarded a contract to supply the system or any of its major components or (ii) be a subcontractor or consultant to a supplier of the system or of its major components. The contractor agrees that it will not supply to the Department of Defense (either as a prime contractor or as a subcontractor) or act as consultant to a supplier of, any system, subsystem, or major component utilized for or in connection with any item or other matter that is (directly or indirectly) the subject of the systems engineering and/or technical direction or other services performed under this contract for a period of [insert the period of prohibition] after the date of completion of the contract. (FAR 9.505-1(a))

[] (2) To the extent the contractor prepares and furnishes complete specifications covering nondevelopmental items to be used in a competitive acquisition, the contractor shall not be allowed to furnish these items either as a prime contractor or subcontractor. This rule applies to the initial production contract, for such items plus a specified time period or event. The contractor agrees to prepare complete specifications covering non-developmental items to be used in competitive acquisitions, and the contractor agrees not to be a supplier to the Department of Defense, subcontract supplier, or a consultant to a supplier of any system or subsystem for which complete specifications were prepared hereunder. The prohibition relative to being a supplier, a subcontract supplier, or a consultant to a supplier of these systems of their subsystems extends for a period of [insert the period of prohibition] after the terms of this contract. (FAR 9.505-2(a)(1))

[X] (3) To the extent the contractor prepares or assists in preparing a statement of work to be used in competitively acquiring a system or services or provides material leading directly, predictably and without delay to such a work statement, the contractor may not supply the system, major components thereof or the services unless the contractor is the sole source, or a participant in the design or development work, or a contractor involved in preparation of the work statement. The contractor agrees to prepare, support the preparation of or provide material leading directly, predictably and without delay to a work statement to be used in competitive acquisitions, and the contractor agrees not to be a supplier or consultant to a supplier of any services, systems or subsystems for which the contractor participated in preparing the work statement. The prohibition relative to being a supplier, a subcontract supplier, or a consultant to a supplier of any services, systems or subsystems extends for a period of [insert the period of prohibition] after the terms of this contract. (FAR 9.505-2(a)(1))

[X] (4) To the extent work to be performed under this contract requires evaluation of offers for products or services, a contract will not be awarded to a contractor that will evaluate its own offers for products or services, or those of a competitor, without proper safeguards to ensure objectivity to protect the Government's interests. Contractor agrees to the terms and conditions set forth in the Statement of Work that are established to ensure objectivity to protect the Government's interests. (FAR 9.505-3)

[X] (5) To the extent work to be performed under this contract requires access to proprietary data of other companies, the contractor must enter into agreements with such other companies which set forth procedures deemed adequate by those companies (i) to protect such data from unauthorized use or disclosure so long as it remains proprietary and (ii) to refrain from using the information for any other purpose other than that for which it was furnished. Evidence of such agreement(s) must be made available to the Procuring Contracting Officer upon request. The contractor shall restrict access to proprietary information to the minimum number of employees necessary for performance of this contract. Further, the contractor agrees that it will not utilize proprietary data obtained from such other companies in preparing proposals (solicited or unsolicited) to perform additional services or studies for the United States Government. The contractor agrees to execute agreements with companies furnishing proprietary data in connection with work performed under this contract, obligating the contractor to protect such data from unauthorized use or disclosure so long as such data remains proprietary, and to furnish copies of such agreement to the Contracting Officer. Contractor further agrees that such proprietary data shall not be used in performing for the Department of Defense additional work in the same field as work performed under this contract if such additional work is procured competitively. (FAR 9.505-4(b))

[X] (6) Preparation of Statements of Work or Specifications. If the contractor under this contract assists substantially in the preparation of a statement of work or specifications, the contractor shall be ineligible to perform or participate

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in any capacity in any contractual effort (solicited or unsolicited) that is based on such statement of work or specifications. The contractor shall not incorporate its products or services in such statement of work or specifications unless so directed in writing by the Contracting Officer, in which case the restrictions in this subparagraph shall not apply. Contractor agrees that it will not supply to the Department of Defense (either as a prime contractor or as a subcontractor) or act as consultant to a supplier of, any system, subsystem or major component utilized for or in connection with any item or work statement prepared or other services performed or materials delivered under this contract, and is procured on a competitive basis, by the Department of Defense with [insert the period of prohibition] after completion of work under this contract. The provisions of this clause shall not apply to any system, subsystem, or major component for which the contractor is the sole source of supply or which it participated in designing or developing. (FAR 9.505-4(b))

[] (7) Advisory and Assistance Services (AAS). If the contractor provides AAS services as defined in paragraph (d) of this clause, it shall be ineligible thereafter to participate in any capacity in Government contractual efforts (solicited or unsolicited) which stem directly from such work, and the contractor agrees not to perform similar work for prospective offerors with respect to any such contractual efforts. Furthermore, unless so directed in writing by the Contracting Officer, the contractor shall not perform any such work under this contract on any of its products or services, or the products or services of another firm for which the contractor performs similar work. Nothing in this subparagraph shall preclude the contractor from competing for follow-on contracts for AAS.

(f) Remedies. In the event the contractor fails to comply with the provisions of this clause, such noncompliance shall be deemed a material breach of the provisions of this contract. If such noncompliance is the result of conflicting financial interest involving contractor personnel performing work under this contract, the Government may require the contractor to remove such personnel from performance of work under this contract. Further, the Government may elect to exercise its right to terminate for default in the event of such noncompliance. Nothing herein shall prevent the Government from electing any other appropriate remedies afforded by other provisions of this contract, or statute or regulation.

(g) Disclosure of Potential Conflicts of Interest. The contractor recognizes that during the term of this contract, conditions may change which may give rise to the appearance of a new conflict of interest. In such an event, the contractor shall disclose to the Government information concerning the new conflict of interest. The contractor shall provide, as a minimum, the following information:

- (1) a description of the new conflict of interest (e.g., additional weapons systems supplier(s), corporate restructuring, new first-tier subcontractor(s), new contract) and identity of parties involved;
- (2) a description of the work to be performed;
- (3) the dollar amount;
- (4) the period of performance; and
- (5) a description of the contractor's internal controls and planned actions, to avoid any potential organizational conflict of interest.

5252.211-9502 GOVERNMENT INSTALLATION WORK SCHEDULE (NAVAIR) (OCT 2005)

(a) The Holidays applicable to this contract are: New Year's Day, Martin Luther King's Birthday, President's Birthday, Memorial Day, Independence Day, Labor Day, Columbus Day, Veteran's Day, Thanksgiving Day, and Christmas Day.

(b) In the event that the contractor is prevented from performance as the result of an Executive Order or an administrative leave determination that applies to the using activity, such time may be charged to the contract as a direct cost provided such charges are consistent with the contractor's accounting practices. In the event that any of the above holidays occur on a Saturday or Sunday, then such holiday shall be observed as they are by the assigned Government employees at the using activity.

5252.222-9500 SERVICE CONTRACT ACT (SCA) MINIMUM WAGES AND FRINGE BENEFITS (NAVAIR) (OCT 1994)

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A Service Contract Act (SCA) wage determination has been requested from the U.S. Department of Labor. Until receipt of a wage determination, Attachment 3 (wage determination in the existing contract) will be applicable to this contract. If a new wage determination is received prior to contract award, it will be incorporated by amendment to this solicitation.

5252.237-9503 ORDERING PROCEDURES FOR NAVY MARINE CORPS INTRANET (NMCI) SERVICES (NAVAIR) (SEP 2000)

(a) This Support Services contract may require the use of and/or access to Department of Navy (DoN) Information Technology (IT) Resources by contractor personnel for contract performance. Applicable DoN IT Resources for performance of this contract shall be procured from the NMCI Contractor pursuant to the authority of NMCI Contract # N00024-00-D-6000, clause 5.2 "Ordering."

(b) The Support Services contractor shall obtain written authorization from the Contracting Officer executing this contract, prior to ordering directly from the NMCI Contractor. No NMCI Order may be placed without the prior written authorization of the Contracting Officer. Any NMCI Order exceeding the written authorization of the Contracting Officer shall be treated as an unallowable cost pursuant to FAR Part 31.

(c) The Government shall reimburse the contractor for the placement of NMCI Orders including applicable indirect burdens (general & administrative, etc.), excluding profit or fee.

5252.242-9502 TECHNICAL DIRECTION (NAVAIR) (OCT 2005)

(a) When necessary, technical direction or clarification concerning the details of specific tasks set forth in the contract shall be given through issuance of Technical Direction Letters (TDLs) by the Contracting Officer's Representative (COR).

(b) Each TDL shall be in writing and shall include, as a minimum, the following information:

(1) Date of TDL;

(2) Contract and TDL number;

(3) Reference to the relevant section or item in the statement of work;

(4) Signature of COR.

(5) The specific direction provided to the contractor.

(c) Each TDL issued hereunder is subject to the terms and conditions of this contract; and in no event shall technical directions constitute an assignment of new work or changes to such nature as to justify any adjustment to the fixed fee, estimated costs, or delivery terms under the contract. In the event of a conflict between a TDL and this contract, the contract shall control.

(d) When in the opinion of the contractor a technical direction calls for effort outside the contract statement of work, the contractor shall notify the Contracting Officer thereof in writing, with a copy to the COR, within two (2) working days of having received the technical direction in question. The contractor shall undertake no performance to comply with the technical direction until the matter has been resolved by the Contracting Officer through formal contract modification or other appropriate action.

(e) Oral technical directions may be given by the COR only in emergency circumstances, and provided that any oral technical direction given is reduced in writing by the COR within two (2) working days of its issuance.

(f) Amendments to a TDL shall be in writing and shall include the information set forth in paragraph (b) above. A TDL may be amended orally only by [insert the name, title and/or code of the individual authorized to orally amend technical direction letters] in emergencies; oral amendments shall be confirmed in writing within two (2) working days

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from the time of the oral communication amending the TDL by a TDL modification.

(g) Any effort undertaken by the contractor pursuant to oral or written technical directions issued other than in accordance with the provisions herein shall be at the contractor's risk of not recovering related costs incurred and corresponding proportionate amount of fixed fee, if any.

(h) The COR must provide a copy of the TDL to the Contracting Officer and the Administrative Contracting Officer (If contractor had on-site DCMS) within two (2) days of issuance.

(i) The COR must retain a copy for the files.

H10S ORGANIZATIONAL CONFLICT OF INTEREST - FAR 9.505-1

(a) In accordance with FAR 9.505-1; whereas this task order provides for systems engineering and technical direction (SETD), the Contractor agrees not to be a supplier to the Department of Defense, a subcontract supplier, or a consultant to a supplier of any system or subsystems for which the SETD functions are performed hereunder. The prohibition relative to being a supplier, a subcontract supplier, or a consultant to a supplier of these systems or their subsystems extends for a period of three years after the term of this contract.

(b) For the purpose of this clause, the term "Contractor" means the Contractor, its subsidiaries and affiliates, joint ventures involving the Contractor, any entity with which the Contractor may hereafter merge or affiliate, and any other successor of the Contractor.

(c) The Contractor shall, within 15 days after the effective date of this task order, provide, in writing, to the Task Order Ordering Officer, a certification that all employees, agents and subcontractors involved in the performance of this task order have been informed of the provisions of this clause.

(d) Any subcontractor which performs any work relative to this task order shall be subject to this clause. The Contractor agrees to place in each subcontract affected by these provisions the necessary language contained in this clause.

(e) The prohibitions imposed by this clause may be waived by the Task Order Ordering Officer.

(f) In the event the Contractor, or any of its employees, agents or subcontractors fails to comply with the provisions of this clause, such noncompliance shall be deemed a material breach of contract for which the Government reserves the right to terminate the task order for default and/or resort to such other rights and remedies as provided for under this task order and under the Federal law of contracts. Noncompliance with the provisions of this clause may also adversely affect the determination of Contractor responsibility in future Government acquisitions.

(g) This clause applies to Statement of Work task(s):

H12S ORGANIZATIONAL CONFLICT OF INTEREST - FAR 9.505-2, SOW

(a) In accordance with FAR 9.505-2(b); whereas this task order provides for the Contractor to prepare, support the preparation of, or provide material leading directly, predictably and without delay to a work statement to be used in competitive acquisitions; the contractor agrees not to be a supplier to the Department of Defense, a subcontract supplier, or a consultant to a supplier of any services, systems or subsystems for which the contractor participated in preparing the work statement as defined above. The prohibition relative to being a supplier, a subcontract supplier, or a consultant to a supplier of any services, systems or subsystems extends for a period of three years after the term of this task order.

(b) For the purpose of this clause, the term "Contractor" means the contractor, its subsidiaries and affiliates, joint ventures involving the contractor, any entity with which the contractor may hereafter merge or affiliate, and any other successor of the contractor.

(c) The Contractor shall, within 15 days after the effective date of this task order, provide a written certification to the Task Order Ordering Officer that all employees, agents and subcontractors involved in the performance of this task order have been informed of the provisions of this clause.

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(d) Any subcontractor which performs any work relative to this task order shall be subject to this clause. The Contractor agrees to place in each subcontract affected by these provisions the necessary language contained in this clause.

(e) The prohibitions imposed by this clause may be waived by the Task Order Ordering Officer.

(f) In the event the Contractor, or any of its employees, agents or subcontractors fails to comply with the provisions of this clause, such noncompliance shall be deemed a material breach of contract for which the Government reserves the right to terminate the task order for default and/or resort to such other rights and remedies as provided for under this task order and under the Federal law of contracts. Noncompliance with the provisions of this clause may also adversely affect the determination of contractor responsibility in future Government acquisitions.

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SECTION I CONTRACT CLAUSES

252.227-7025 LIMITATIONS ON THE USE OR DISCLOSURE OF GOVERNMENT-FURNISHED INFORMATION MARKED WITH RESTRICTIVE LEGENDS (JUN 1995)

(a)(1) For contracts requiring the delivery of technical data, the terms "limited rights" and "Government purpose rights" are defined in the Rights in Technical Data--Noncommercial Items clause of this contract.

(2) For contracts that do not require the delivery of technical data, the terms "government purpose rights" and "restricted rights" are defined in the Rights in Noncommercial Computer Software and Noncommercial Computer Software Documentation clause of this contract.

(3) For Small Business Innovative Research program contracts, the terms "limited rights" and "restricted rights" are defined in the Rights in Noncommercial Technical Data and Computer Software--Small Business Innovative Research (SBIR) Program clause of this contract.

(b) Technical data or computer software provided to the Contractor as Government furnished information (GFI) under this contract may be subject to restrictions on use, modification, reproduction, release, performance, display, or further disclosure.

(1) GFI marked with limited or restricted rights legends. The Contractor shall use, modify, reproduce, perform, or display technical data received from the Government with limited rights legends or computer software received with restricted rights legends only in the performance of this contract. The Contractor shall not, without the express written permission of the party whose name appears in the legend, release or disclose such data or software to any person.

(2) GFI marked with government purpose rights legends. The Contractor shall use technical data or computer software received from the Government with government purpose rights legends for government purposes only. The Contractor shall not, without the express written permission of the party whose name appears in the restrictive legend, use, modify, reproduce, release, perform, or display such data or software for any commercial purpose or disclose such data or software to a person other than its subcontractors, suppliers, or prospective subcontractors or suppliers, who require the data or software to submit offers for, or perform, contracts under this contract. Prior to disclosing the data or software, the Contractor shall require the persons to whom disclosure will be made to complete and sign the non-disclosure agreement at 227.7103-7 of the Defense Federal Acquisition Regulation Supplement (DFARS).

(3) GFI marked with specially negotiated license rights legends. The Contractor shall use, modify, reproduce, release, perform, or display technical data or computer software received from the Government with specially negotiated license legends only as permitted in the license. Such data or software may not be released or disclosed to other persons unless permitted by the license and, prior to release or disclosure, the intended recipient has completed the non-disclosure agreement at DFARS 227.7103-7. The Contractor shall modify paragraph (1)(c) of the non-disclosure agreement to reflect the recipient's obligations regarding use, modification, reproduction, release, performance, display, and disclosure of the data or software.

(c) Indemnification and creation of third party beneficiary rights. The Contractor agrees--

(1) To indemnify and hold harmless the Government, its agents, and employees from every claim or liability, including attorneys fees, court costs, and expenses, arising out of, or in any way related to, the misuse or unauthorized modification, reproduction, release, performance, display, or disclosure of technical data or computer software received from the Government with restrictive legends by the Contractor or any person to whom the Contractor has released or disclosed such data or software; and

(2) That the party whose name appears on the restrictive legend, in addition to any other rights it may have, is a third party beneficiary who has the right of direct action against the Contractor, or any person to whom the Contractor has released or disclosed such data or software, for the unauthorized duplication, release, or disclosure of technical data

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or computer software subject to restrictive legends.

52.211-14 NOTICE OF PRIORITY RATING FOR NATIONAL DEFENSE USE (SEP 1990)

Any contracts awarded as a result of this solicitation will be a [] DX rated order; [X] DO rated order certified for national defense use under the Defense Priorities and Allocations System (DPAS) (15 CFR 350), and the Contractor will be required to follow all of the requirements of this regulation.

52.217-8 OPTION TO EXTEND SERVICES (NOV 1999)

The Government may require continued performance of any services within the limits and at the rates specified in the contract. These rates may be adjusted only as a result of revisions to prevailing labor rates provided by the Secretary of Labor. The option provision may be exercised more than once, but the total extension of performance hereunder shall not exceed 6 months. The Contracting Officer may exercise the option by written notice to the Contractor within 30 days.

52.222-2 PAYMENT FOR OVERTIME PREMIUMS (JUL 1990)

(a) The use of overtime is authorized under this contract if the overtime premium cost does not exceed [] or the overtime premium is paid for work --

(1) Necessary to cope with emergencies such as those resulting from accidents, natural disasters, breakdowns of production equipment, or occasional production bottlenecks of a sporadic nature;

(2) By indirect-labor employees such as those performing duties in connection with administration, protection, transportation, maintenance, standby plant protection, operation of utilities, or accounting;

(3) To perform tests, industrial processes, laboratory procedures, loading or unloading of transportation conveyances, and operations in flight or afloat that are continuous in nature and cannot reasonably be interrupted or completed otherwise; or

(4) That will result in lower overall costs to the Government.

(b) Any request for estimated overtime premiums that exceeds the amount specified above shall include all estimated overtime for contract completion and shall--

(1) Identify the work unit; e.g., department or section in which the requested overtime will be used, together with present workload, staffing, and other data of the affected unit sufficient to permit the Contracting Officer to evaluate the necessity for the overtime;

(2) Demonstrate the effect that denial of the request will have on the contract delivery or performance schedule;

(3) Identify the extent to which approval of overtime would affect the performance or payments in connection with other Government contracts, together with identification of each affected contract; and

(4) Provide reasons why the required work cannot be performed by using multishift operations or by employing additional personnel.

52.232-22 Limitation of Funds (Apr 1984)

(a) The parties estimate that performance of this contract will not cost the Government more than (1) the estimated cost specified in the Schedule or, (2) if this is a cost-sharing contract, the Government's share of the estimated cost specified in the Schedule. The Contractor agrees to use its best efforts to perform the work specified in the Schedule

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and all obligations under this contract within the estimated cost, which, if this is a cost-sharing contract, includes both the Government's and the Contractor's share of the cost.

(b) The Schedule specifies the amount presently available for payment by the Government and allotted to this contract, the items covered, the Government's share of the cost if this is a cost-sharing contract, and the period of performance it is estimated the allotted amount will cover. The parties contemplate that the Government will allot additional funds incrementally to the contract up to the full estimated cost to the Government specified in the Schedule, exclusive of any fee. The Contractor agrees to perform, or have performed, work on the contract up to the point at which the total amount paid and payable by the Government under the contract approximates but does not exceed the total amount actually allotted by the Government to the contract.

(c) The Contractor shall notify the Contracting Officer in writing whenever it has reason to believe that the costs it expects to incur under this contract in the next 60 days, when added to all costs previously incurred, will exceed 75 percent of (1) the total amount so far allotted to the contract by the Government or, (2) if this is a cost-sharing contract, the amount then allotted to the contract by the Government plus the Contractor's corresponding share. The notice shall state the estimated amount of additional funds required to continue performance for the period specified in the Schedule.

(d) Sixty days before the end of the period specified in the Schedule, the Contractor shall notify the Contracting Officer in writing of the estimated amount of additional funds, if any, required to continue timely performance under the contract or for any further period specified in the Schedule or otherwise agreed upon, and when the funds will be required.

(e) If, after notification, additional funds are not allotted by the end of the period specified in the Schedule or another agreed-upon date, upon the Contractor's written request the Contracting Officer will terminate this contract on that date in accordance with the provisions of the Termination clause of this contract. If the Contractor estimates that the funds available will allow it to continue to discharge its obligations beyond that date, it may specify a later date in its request, and the Contracting Officer may terminate this contract on that later date.

(f) Except as required by other provisions of this contract, specifically citing and stated to be an exception to this clause—

(1) The Government is not obligated to reimburse the Contractor for costs incurred in excess of the total amount allotted by the Government to this contract; and

(2) The Contractor is not obligated to continue performance under this contract (including actions under the Termination clause of this contract) or otherwise incur costs in excess of—

(i) The amount then allotted to the contract by the Government or;

(ii) If this is a cost-sharing contract, the amount then allotted by the Government to the contract plus the Contractor's corresponding share, until the Contracting Officer notifies the Contractor in writing that the amount allotted by the Government has been increased and specifies an increased amount, which shall then constitute the total amount allotted by the Government to this contract.

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(g) The estimated cost shall be increased to the extent that (1) the amount allotted by the Government or, (2) if this is a cost-sharing contract, the amount then allotted by the Government to the contract plus the Contractor's corresponding share, exceeds the estimated cost specified in the Schedule. If this is a cost-sharing contract, the increase shall be allocated in accordance with the formula specified in the Schedule.

(h) No notice, communication, or representation in any form other than that specified in paragraph (f)(2) of this clause, or from any person other than the Contracting Officer, shall affect the amount allotted by the Government to this contract. In the absence of the specified notice, the Government

is not obligated to reimburse the Contractor for any costs in excess of the total amount allotted by the Government to this contract, whether incurred during the course of the contract or as a result of termination.

(i) When and to the extent that the amount allotted by the Government to the contract is increased, any costs the Contractor incurs before the increase that are in excess of—

(1) The amount previously allotted by the Government or;

(2) If this is a cost-sharing contract, the amount previously allotted by the Government to the contract plus the Contractor's corresponding share, shall be allowable to the same extent as if incurred afterward, unless the Contracting Officer issues a termination or other notice and directs that the increase is solely to cover termination or other specified expenses.

(j) Change orders shall not be considered an authorization to exceed the amount allotted by the Government specified in the Schedule, unless they contain a statement increasing the amount allotted.

(k) Nothing in this clause shall affect the right of the Government to terminate this contract. If this contract is terminated, the Government and the Contractor shall negotiate an equitable distribution of all property produced or purchased under the contract, based upon the share of costs incurred by each.

(l) If the Government does not allot sufficient funds to allow completion of the work, the Contractor is entitled to a percentage of the fee specified in the Schedule equalling the percentage of completion of the work contemplated by this contract

52.222-42 STATEMENT OF EQUIVALENT RATES FOR FEDERAL HIRES (MAY 1989)

In compliance with the Service Contract Act of 1965, as amended, and the regulations of the Secretary of Labor (29 CFR Part 4), this clause identifies the classes of service employees expected to be employed under the contract and states the wages and fringe benefits payable to each if they were employed by the contracting agency subject to the provisions of 5 U.S.C. 5341 or 5332.

THIS STATEMENT IS FOR INFORMATION ONLY: IT IS NOT A WAGE DETERMINATION

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Employee Class Monetary Wage-Fringe Benefits

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SECTION J LIST OF ATTACHMENTS

Exhibit A, DD1423, Contract Data Requirements List

DD Form 254, Attachment (1)

Quality Assurance Surveillance Plan (2)

Wage Determination Agreement WD 05-2103 (3)