

<b>SOLICITATION/CONTRACT/ORDER FOR COMMERCIAL ITEMS</b> <i>OFFEROR TO COMPLETE BLOCKS 12, 17, 23, 24, AND 30</i>				1. REQUISITION NUMBER		PAGE 1 OF 120	
2. CONTRACT NO.		3. AWARD/EFFECTIVE DATE		4. ORDER NUMBER		5. SOLICITATION NUMBER W912NW23Q0057	
6. SOLICITATION ISSUE DATE 06-Jul-2023		7. FOR SOLICITATION INFORMATION CALL:		a. NAME HAROLD RUSSELL JR		b. TELEPHONE NUMBER (No Collect Calls) (361)961-7831	
8. OFFER DUE DATE/LOCAL TIME 02:00 PM 07 Aug 2023		9. ISSUED BY ARMY CONTRACTING COMMAND - REDSTONE CONTRACTING OFFICE CORPUS CHRISTI ARMY DEPOT 9035 OCEAN DR. BLDG 10, MAIL STOP 18 CORPUS CHRISTI TX 78419-5260  TEL: FAX:		10. THIS ACQUISITION IS <input checked="" type="checkbox"/> UNRESTRICTED OR <input checked="" type="checkbox"/> SET ASIDE: 100 % FOR: <input checked="" type="checkbox"/> SMALL BUSINESS <input type="checkbox"/> WOMEN-OWNED SMALL BUSINESS (WOSB) <input type="checkbox"/> HUBZONE SMALL BUSINESS <input type="checkbox"/> ELIGIBLE UNDER THE WOMEN-OWNED SMALL BUSINESS PROGRAM <input type="checkbox"/> SERVICE-DISABLED VETERAN-OWNED SMALL BUSINESS <input type="checkbox"/> EDWOSB NAICS: 333248 SIZE STANDARD: 750			
11. DELIVERY FOR FOB DESTINATION UNLESS BLOCK IS MARKED <input type="checkbox"/> SEE SCHEDULE		12. DISCOUNT TERMS		13a. THIS CONTRACT IS A RATED ORDER UNDER DPAS (15 CFR 700) <input type="checkbox"/>		13b. RATING	
						14. METHOD OF SOLICITATION <input checked="" type="checkbox"/> RFQ <input type="checkbox"/> IFB <input type="checkbox"/> RFP	
15. DELIVER TO  <b>SEE SCHEDULE</b>		16. ADMINISTERED BY		17a. CONTRACTOR/ OFFEROR CODE FACILITY CODE  TELEPHONE NO.		18a. PAYMENT WILL BE MADE BY CODE	
<input type="checkbox"/> 17b. CHECK IF REMITTANCE IS DIFFERENT AND PUT SUCH ADDRESS IN OFFER		18b. SUBMIT INVOICES TO ADDRESS SHOWN IN BLOCK 18a. UNLESS BLOCK BELOW IS CHECKED <input type="checkbox"/> SEE ADDENDUM					
19. ITEM NO.	20. SCHEDULE OF SUPPLIES/ SERVICES			21. QUANTITY	22. UNIT	23. UNIT PRICE	24. AMOUNT
	<b>SEE SCHEDULE</b>						
25. ACCOUNTING AND APPROPRIATION DATA						26. TOTAL AWARD AMOUNT (For Govt. Use Only)	
<input checked="" type="checkbox"/> 27a. SOLICITATION INCORPORATES BY REFERENCE FAR 52.212-1. 52.212-4. FAR 52.212-3. 52.212-5 ARE ATTACHED.						ADDENDA <input checked="" type="checkbox"/> ARE <input type="checkbox"/> ARE NOT ATTACHED	
<input type="checkbox"/> 27b. CONTRACT/PURCHASE ORDER INCORPORATES BY REFERENCE FAR 52.212-4. FAR 52.212-5 IS ATTACHED.						ADDENDA <input type="checkbox"/> ARE <input type="checkbox"/> ARE NOT ATTACHED	
<input type="checkbox"/> 28. CONTRACTOR IS REQUIRED TO SIGN THIS DOCUMENT AND RETURN COPIES TO ISSUING OFFICE. CONTRACTOR AGREES TO FURNISH AND DELIVER ALL ITEMS SET FORTH OR OTHERWISE IDENTIFIED ABOVE AND ON ANY ADDITIONAL SHEETS SUBJECT TO THE TERMS AND CONDITIONS SPECIFIED.						<input type="checkbox"/> 29. AWARD OF CONTRACT: REF. OFFER DATED . YOUR OFFER ON SOLICITATION (BLOCK 5), INCLUDING ANY ADDITIONS OR CHANGES WHICH ARE SET FORTH HEREIN, IS ACCEPTED AS TO ITEMS:	
30a. SIGNATURE OF OFFEROR/CONTRACTOR				31a. UNITED STATES OF AMERICA (SIGNATURE OF CONTRACTING OFFICER)			
30b. NAME AND TITLE OF SIGNER (TYPE OR PRINT)				30c. DATE SIGNED		31b. NAME OF CONTRACTING OFFICER (TYPE OR PRINT)	
						31c. DATE SIGNED	
				TEL: EMAIL:			

SOLICITATION/CONTRACT/ORDER FOR COMMERCIAL ITEMS (CONTINUED)				PAGE 2 OF 120	
19. ITEM NO.	20. SCHEDULE OF SUPPLIES/ SERVICES	21. QUANTITY	22. UNIT	23. UNIT PRICE	24. AMOUNT
	SEE SCHEDULE				
32a. QUANTITY IN COLUMN 21 HAS BEEN <input type="checkbox"/> RECEIVED <input type="checkbox"/> INSPECTED <input type="checkbox"/> ACCEPTED, AND CONFORMS TO THE CONTRACT, EXCEPT AS NOTED: _____					
32b. SIGNATURE OF AUTHORIZED GOVERNMENT REPRESENTATIVE		32c. DATE	32d. PRINTED NAME AND TITLE OF AUTHORIZED GOVERNMENT REPRESENTATIVE		
32e. MAILING ADDRESS OF AUTHORIZED GOVERNMENT REPRESENTATIVE			32f. TELEPHONE NUMBER OF AUTHORIZED GOVERNMENT REPRESENTATIVE		
			32g. E-MAIL OF AUTHORIZED GOVERNMENT REPRESENTATIVE		
33. SHIP NUMBER <input type="checkbox"/> PARTIAL <input type="checkbox"/> FINAL		34. VOUCHER NUMBER	35. AMOUNT VERIFIED CORRECT FOR	36. PAYMENT <input type="checkbox"/> COMPLETE <input type="checkbox"/> PARTIAL <input type="checkbox"/> FINAL	
37. CHECK NUMBER					
38. S/R ACCOUNT NUMBER	39. S/R VOUCHER NUMBER	40. PAID BY			
41a. I CERTIFY THIS ACCOUNT IS CORRECT AND PROPER FOR PAYMENT 41b. SIGNATURE AND TITLE OF CERTIFYING OFFICER		41c. DATE	42a. RECEIVED BY <i>(Print)</i>		
			42b. RECEIVED AT <i>(Location)</i>		
			42c. DATE REC'D <i>(YY/MM/DD)</i>	42d. TOTAL CONTAINERS	

## Section SF 1449 - CONTINUATION SHEET

INSTRUCTION TO OFFERORS

## INSTRUCTIONS TO OFFERORS

1. SF1449 needs to be filled out completely, sign and return with quote submission.
2. Please provide any technical information in a separate attachment.
3. Please provide any additional pricing information in a separate attachment.
4. DRAWINGS: To request access to drawings, submit an email to the following: Jay Russell: [harold.w.russell.civ@army.mil](mailto:harold.w.russell.civ@army.mil) and Dawyn Martinez: [dawyn.m.martinez.civ@army.mil](mailto:dawyn.m.martinez.civ@army.mil).

## SITE VISIT INFORMATION:

Site area is under construction so safety equipment is required: Hard hats, safety vest, shoes and glasses are required.

Thursday, 20 July 2023

Time: 9:00 AM (CST)

Location: CCAD, building 1727, conference room, 2nd floor, NAS Corpus Christi, Texas.

To attend the site visit, the guest sponsorship (see attached in announcement) must be filled out and emailed to [harold.w.russell.civ@army.mil](mailto:harold.w.russell.civ@army.mil) AND [dawyn.m.martinez.civ@army.mil](mailto:dawyn.m.martinez.civ@army.mil) no later than 1:00 PM Central Time, 13 July 2023.

Any question after the site visit must be submitted to [harold.w.russell.civ@army.mil](mailto:harold.w.russell.civ@army.mil) AND [dawyn.m.martinez.civ@army.mil](mailto:dawyn.m.martinez.civ@army.mil) no later than 10:00 AM Central Time, 21 July 2023. No cameras and/or pictures are allowed. Any questions asked during the site will be added as an amended to this solicitation to include all answers.

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0001	Magnetic Particle Inspection System FFP Provide all labor, material, equipment to design, procure and install Magnetic Particle Inspection (MPI) System in accordance with the specifications and drawings stated herein.				

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NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0001AA	System Design FFP The Contractor shall design the MPI in accordance with Requirements contained herein. Dates of design completion shall be mutually agreed upon. FOB: Destination PSC CD: 4920	1	Each		

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NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0001AB	System Fabrication FFP The Contractor shall fabricate the MPI in accordance with the Statement of Work(SOW) contained herein. Date of fabrication completion shall be mutually agreed upon. NOTE: The requirements in DFARS 252.211-7003, Item Identification and Valuation, are applicable for this line item. The contractor shall provide DoD unique identification or a DoD recognized unique identification equivalent. FOB: Destination PSC CD: 4920	1	Each		

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NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0001AC	Shipping FFP The Contractor shall ship the MPI in accordance with the Statement of Work (SOW) contained herein. Dates of shipping shall be mutually agreed upon. FOB: Destination PSC CD: 4920	1	Each		

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NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0001AD	Installation FFP The Contractor shall install the MPI in accordance with the Statement of Work (SOW) contained herein. Completion dates of installation shall be mutually agreed upon. FOB: Destination PSC CD: 4920	1	Each		

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NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0001AE	Start Up FFP The Contractor shall conduct the startup of the MPI in accordance with the Statement of Work (SOW) contained herein. Dates of startup shall be mutually agreed upon. FOB: Destination PSC CD: 4920	1	Each		

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NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0001AF	Testing FFP The Contractor shall test the MPI in accordance with the Statement of Work (SOW) contained herein. Dates of testing shall be mutually agreed upon. FOB: Destination PSC CD: 4920	1	Each		

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NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0001AG	Training FFP The Contractor shall conduct training in accordance with the Statement of Work (SOW) contained herein. Dates of training shall be mutually agreed upon. FOB: Destination PSC CD: 4920	1	Each		

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NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0002	Contract Data Requirements List (CDRL) FFP See Exhibit A for CDRLs A001 - A012.  ALL CDRL's ARE NOT SEPARATELY PRICED. FOB: Destination PSC CD: 4920				

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NET AMT

See Exhibit A

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0003	Item Unique Identification (IUID) FFP Item Unique Identification (IUID) as per DFARS Clause 252.211-7003 FOB: Destination PSC CD: 4920	1	Each		

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NET AMT

## INSPECTION AND ACCEPTANCE TERMS

Supplies/services will be inspected/accepted at:

CLIN	INSPECT AT	INSPECT BY	ACCEPT AT	ACCEPT BY
0001	N/A	N/A	N/A	N/A
0001AA	Destination	Government	Destination	Government
0001AB	Destination	Government	Destination	Government
0001AC	Destination	Government	Destination	Government
0001AD	Destination	Government	Destination	Government
0001AE	Destination	Government	Destination	Government
0001AF	Destination	Government	Destination	Government
0001AG	Destination	Government	Destination	Government
0002	Destination	Government	Destination	Government
0003	Destination	Government	Destination	Government

## DELIVERY INFORMATION

CLIN	DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	DODAAC / CAGE
0001	N/A	N/A	N/A	N/A
0001AA	36 mths. ADC	1	N/A FOB: Destination	
0001AB	36 mths. ADC	1	N/A FOB: Destination	

0001AC 36 mths. ADC	1	N/A FOB: Destination	
0001AD 36 mths. ADC	1	N/A FOB: Destination	
0001AE 36 mths. ADC	1	N/A FOB: Destination	
0001AF 36 mths. ADC	1	N/A FOB: Destination	
0001AG 36 mths. ADC	1	N/A FOB: Destination	
0002 N/A	N/A	N/A	N/A
0003 36 mths. ADC	1	N/A FOB: Destination	

## CLAUSES INCORPORATED BY REFERENCE

52.203-3	Gratuities	APR 1984
52.204-2	Security Requirements	MAR 2021
52.204-7	System for Award Management	OCT 2018
52.204-9	Personal Identity Verification of Contractor Personnel	JAN 2011
52.204-13	System for Award Management Maintenance	OCT 2018
52.204-16	Commercial and Government Entity Code Reporting	AUG 2020
52.204-18	Commercial and Government Entity Code Maintenance	AUG 2020
52.204-21	Basic Safeguarding of Covered Contractor Information Systems	NOV 2021
52.204-22	Alternative Line Item Proposal	JAN 2017
52.209-7	Information Regarding Responsibility Matters	OCT 2018
52.212-4	Contract Terms and Conditions--Commercial Products and Commercial Services	DEC 2022
252.203-7000	Requirements Relating to Compensation of Former DoD Officials	SEP 2011
252.203-7002	Requirement to Inform Employees of Whistleblower Rights	DEC 2022
252.203-7003	Agency Office of the Inspector General	AUG 2019
252.203-7004	Display of Hotline Posters	JAN 2023
252.203-7005	Representation Relating to Compensation of Former DoD Officials	SEP 2022
252.204-7000	Disclosure Of Information	OCT 2016
252.204-7002	Payment For Contract Line or Subline Items Not Separately Priced	APR 2020
252.204-7003	Control Of Government Personnel Work Product	APR 1992
252.204-7004	Antiterrorism Awareness Training for Contractors	JAN 2023
252.204-7008	Compliance With Safeguarding Covered Defense Information Controls	OCT 2016
252.204-7012	Safeguarding Covered Defense Information and Cyber Incident Reporting	JAN 2023
252.204-7015	Notice of Authorized Disclosure of Information for Litigation Support	JAN 2023

252.204-7018	Prohibition on the Acquisition of Covered Defense Telecommunications Equipment or Services	JAN 2023
252.204-7019	Notice of NIST SP 800-171 DoD Assessment Requirements	MAR 2022
252.204-7020	NIST SP 800-171 DoD Assessment Requirements	JAN 2023
252.204-7022	Expediting Contract Closeout	MAY 2021
252.204-7024	Notice on the Use of the Supplier Performance Risk System	MAR 2023
252.205-7000	Provision Of Information To Cooperative Agreement Holders	JUN 2023
252.209-7004	Subcontracting With Firms That Are Owned or Controlled By The Government of a Country that is a State Sponsor of Terrorism	MAY 2019
252.211-7008	Use of Government-Assigned Serial Numbers	SEP 2010
252.215-7008	Only One Offer	DEC 2022
252.223-7006	Prohibition On Storage, Treatment, and Disposal of Toxic or Hazardous Materials	SEP 2014
252.223-7008	Prohibition of Hexavalent Chromium	JAN 2023
252.225-7001	Buy American And Balance Of Payments Program--Basic	JAN 2023
252.225-7002	Qualifying Country Sources As Subcontractors	MAR 2022
252.225-7007	Prohibition on Acquisition of Certain Items from Communist Chinese Military Companies	DEC 2018
252.225-7012	Preference For Certain Domestic Commodities	APR 2022
252.225-7031	Secondary Arab Boycott Of Israel	JUN 2005
252.225-7048	Export-Controlled Items	JUN 2013
252.225-7052	Restriction on the Acquisition of Certain Magnets, Tantalum, and Tungsten.	JAN 2023
252.225-7055	Representation Regarding Business Operations with the Maduro Regime	MAY 2022
252.225-7056	Prohibition Regarding Business Operations with the Maduro Regime	JAN 2023
252.225-7059	Prohibition on Certain Procurements from the Xinjiang Uyghur Autonomous Region - Representation	JUN 2023
252.225-7060	Prohibition on Certain Procurements from the Xinjiang Uyghur Autonomous Region	JUN 2023
252.226-7001	Utilization of Indian Organizations, Indian-Owned Economic Enterprises, and Native Hawaiian Small Business Concerns	JAN 2023
252.227-7013	Rights in Technical Data--Other Than Commercial Products and Commercial Services	MAR 2023
252.227-7014	Rights in Other Than Commercial Computer Software and Other Than Commercial Computer Software Documentation	MAR 2023
252.227-7015	Technical Data--Commercial Products and Commercial Services	MAR 2023
252.227-7016	Rights in Bid or Proposal Information	JAN 2023
252.227-7017	Identification and Assertion of Use, Release, or Disclosure Restrictions	JAN 2023
252.227-7019	Validation of Asserted Restrictions--Computer Software	JAN 2023
252.227-7025	Limitations on the Use or Disclosure of Government-Furnished Information Marked with Restrictive Legends	JAN 2023
252.227-7027	Deferred Ordering Of Technical Data Or Computer Software	APR 1988
252.227-7030	Technical Data--Withholding Of Payment	MAR 2000
252.227-7037	Validation of Restrictive Markings on Technical Data	JAN 2023
252.232-7003	Electronic Submission of Payment Requests and Receiving Reports	DEC 2018
252.232-7010	Levies on Contract Payments	DEC 2006
252.239-7001	Information Assurance Contractor Training and Certification	JAN 2008
252.243-7001	Pricing Of Contract Modifications	DEC 1991
252.243-7002	Requests for Equitable Adjustment	DEC 2022

252.244-7000	Subcontracts for Commercial Products or Commercial Services	JAN 2023
252.246-7001	Alt II Warranty Of Data (Mar 2014) - Alternate II	MAR 2014
252.246-7003	Notification of Potential Safety Issues	JAN 2023
252.246-7008	Sources of Electronic Parts	JAN 2023
252.247-7023	Transportation of Supplies by Sea	JAN 2023

#### CLAUSES INCORPORATED BY FULL TEXT

#### 52.212-1 INSTRUCTIONS TO OFFERORS--COMMERCIAL PRODUCTS AND COMMERCIAL SERVICES (MAR 2023)

(a) North American Industry Classification System (NAICS) code and small business size standard. The NAICS code(s) and small business size standard(s) for this acquisition appear elsewhere in the solicitation. However, the small business size standard for a concern that submits an offer, other than on a construction or service acquisition, but proposes to furnish an end item that it did not itself manufacture, process, or produce is 500 employees, or 150 employees for information technology value-added resellers under NAICS code 541519, if the acquisition--

- (1) Is set aside for small business and has a value above the simplified acquisition threshold;
- (2) Uses the HUBZone price evaluation preference regardless of dollar value, unless the offeror waives the price evaluation preference; or
- (3) Is an 8(a), HUBZone, service-disabled veteran-owned, economically disadvantaged women-owned, or women-owned small business set-aside or sole-source award regardless of dollar value.

(b) Submission of offers. Submit signed and dated offers to the office specified in this solicitation at or before the exact time specified in this solicitation. Offers may be submitted on the SF 1449, letterhead stationery, or as otherwise specified in the solicitation. As a minimum, offers must show--

- (1) The solicitation number;
- (2) The time specified in the solicitation for receipt of offers;
- (3) The name, address, and telephone number of the offeror;
- (4) A technical description of the items being offered in sufficient detail to evaluate compliance with the requirements in the solicitation. This may include product literature, or other documents, if necessary;
- (5) Terms of any express warranty;
- (6) Price and any discount terms;
- (7) "Remit to" address, if different than mailing address;
- (8) A completed copy of the representations and certifications at Federal Acquisition Regulation (FAR) 52.212-3 (see FAR 52.212-3(b) for those representations and certifications that the offeror shall complete electronically);
- (9) Acknowledgment of Solicitation Amendments;
- (10) Past performance information, when included as an evaluation factor, to include recent and relevant contracts for the same or similar items and other references (including contract numbers, points of contact with telephone numbers and other relevant information); and

(11) If the offer is not submitted on the SF 1449, include a statement specifying the extent of agreement with all terms, conditions, and provisions included in the solicitation. Offers that fail to furnish required representations or information, or reject the terms and conditions of the solicitation may be excluded from consideration.

(c) Period for acceptance of offers. The offeror agrees to hold the prices in its offer firm for 30 calendar days from the date specified for receipt of offers, unless another time period is specified in an addendum to the solicitation.

(d) Product samples. When required by the solicitation, product samples shall be submitted at or prior to the time specified for receipt of offers. Unless otherwise specified in this solicitation, these samples shall be submitted at no expense to the Government, and returned at the sender's request and expense, unless they are destroyed during preaward testing.

(e) Multiple offers. Offerors are encouraged to submit multiple offers presenting alternative terms and conditions, including alternative line items (provided that the alternative line items are consistent with FAR subpart 4.10), or alternative commercial products or commercial services for satisfying the requirements of this solicitation. Each offer submitted will be evaluated separately.

(f) Late submissions, modifications, revisions, and withdrawals of offers:

(1) Offerors are responsible for submitting offers, and any modifications, revisions, or withdrawals, so as to reach the Government office designated in the solicitation by the time specified in the solicitation. If no time is specified in the solicitation, the time for receipt is 4:30 p.m., local time, for the designated Government office on the date that offers or revisions are due.

(2)(i) Any offer, modification, revision, or withdrawal of an offer received at the Government office designated in the solicitation after the exact time specified for receipt of offers is "late" and will not be considered unless it is received before award is made, the Contracting Officer determines that accepting the late offer would not unduly delay the acquisition; and--

(A) If it was transmitted through an electronic commerce method authorized by the solicitation, it was received at the initial point of entry to the Government infrastructure not later than 5:00 p.m. one working day prior to the date specified for receipt of offers; or

(B) There is acceptable evidence to establish that it was received at the Government installation designated for receipt of offers and was under the Government's control prior to the time set for receipt of offers; or

(C) If this solicitation is a request for proposals, it was the only proposal received.

(ii) However, a late modification of an otherwise successful offer, that makes its terms more favorable to the Government, will be considered at any time it is received and may be accepted.

(3) Acceptable evidence to establish the time of receipt at the Government installation includes the time/date stamp of that installation on the offer wrapper, other documentary evidence of receipt maintained by the installation, or oral testimony or statements of Government personnel.

(4) If an emergency or unanticipated event interrupts normal Government processes so that offers cannot be received at the Government office designated for receipt of offers by the exact time specified in the solicitation, and urgent Government requirements preclude amendment of the solicitation or other notice of an extension of the closing date, the time specified for receipt of offers will be deemed to be extended to the same time of day specified in the solicitation on the first work day on which normal Government processes resume.

(5) Offers may be withdrawn by written notice received at any time before the exact time set for receipt of offers. Oral offers in response to oral solicitations may be withdrawn orally. If the solicitation authorizes facsimile offers, offers may be withdrawn via facsimile received at any time before the exact time set for receipt of offers, subject to

the conditions specified in the solicitation concerning facsimile offers. An offer may be withdrawn in person by an offeror or its authorized representative if, before the exact time set for receipt of offers, the identity of the person requesting withdrawal is established and the person signs a receipt for the offer.

(g) Contract award (not applicable to Invitation for Bids). The Government intends to evaluate offers and award a contract without discussions with offerors. Therefore, the offeror's initial offer should contain the offeror's best terms from a price and technical standpoint. However, the Government reserves the right to conduct discussions if later determined by the Contracting Officer to be necessary. The Government may reject any or all offers if such action is in the public interest; accept other than the lowest offer; and waive informalities and minor irregularities in offers received.

(h) Multiple awards. The Government may accept any item or group of items of an offer, unless the offeror qualifies the offer by specific limitations. Unless otherwise provided in the Schedule, offers may not be submitted for quantities less than those specified. The Government reserves the right to make an award on any item for a quantity less than the quantity offered, at the unit prices offered, unless the offeror specifies otherwise in the offer.

(i) Availability of requirements documents cited in the solicitation.

(1)(i) The GSA Index of Federal Specifications, Standards and Commercial Item Descriptions, FPMR Part 101-29, and copies of specifications, standards, and commercial item descriptions cited in this solicitation may be obtained for a fee by submitting a request to--GSA Federal Supply Service Specifications Section, Suite 8100, 470 East L'Enfant Plaza, SW, Washington, DC 20407, Telephone (202) 619-8925, Facsimile (202) 619-8978.

(ii) If the General Services Administration, Department of Agriculture, or Department of Veterans Affairs issued this solicitation, a single copy of specifications, standards, and commercial item descriptions cited in this solicitation may be obtained free of charge by submitting a request to the addressee in paragraph (i)(1)(i) of this provision. Additional copies will be issued for a fee.

(2) Most unclassified Defense specifications and standards may be downloaded from the following ASSIST websites:

(i) ASSIST (<https://assist.dla.mil/online/start/>).

(ii) Quick Search (<http://quicksearch.dla.mil/>).

(3) Documents not available from ASSIST may be ordered from the Department of Defense Single Stock Point (DoDSSP) by--

(i) Using the ASSIST Shopping Wizard (<https://assist.dla.mil/wizard/index.cfm>);

(ii) Phoning the DoDSSP Customer Service Desk (215) 697-2179, Mon-Fri, 0730 to 1600 EST; or

(iii) Ordering from DoDSSP, Building 4, Section D, 700 Robbins Avenue, Philadelphia, PA 19111-5094, Telephone (215) 697-2667/2179, Facsimile (215) 697-1462.

(4) Nongovernment (voluntary) standards must be obtained from the organization responsible for their preparation, publication, or maintenance.

(j) Unique entity identifier. (Applies to all offers that exceed the micro-purchase threshold, and offers at or below the micro-purchase threshold if the solicitation requires the Contractor to be registered in the System for Award Management (SAM).) The Offeror shall enter, in the block with its name and address on the cover page of its offer, the annotation "Unique Entity Identifier" followed by the unique entity identifier that identifies the Offeror's name and address. The Offeror also shall enter its Electronic Funds Transfer (EFT) indicator, if applicable. The EFT indicator is a four-character suffix to the unique entity identifier. The suffix is assigned at the discretion of the Offeror to establish additional SAM records for identifying alternative EFT accounts (see FAR subpart 32.11) for

the same entity. If the Offeror does not have a unique entity identifier, it should contact the entity designated at [www.sam.gov](http://www.sam.gov) for unique entity identifier establishment directly to obtain one. The Offeror should indicate that it is an offeror for a Government contract when contacting the entity designated at [www.sam.gov](http://www.sam.gov) for establishing the unique entity identifier.

(k) Reserved.

(l) Debriefing. If a post-award debriefing is given to requesting offerors, the Government shall disclose the following information, if applicable:

- (1) The agency's evaluation of the significant weak or deficient factors in the debriefed offeror's offer.
- (2) The overall evaluated cost or price and technical rating of the successful and the debriefed offeror and past performance information on the debriefed offeror.
- (3) The overall ranking of all offerors, when any ranking was developed by the agency during source selection.
- (4) A summary of the rationale for award;
- (5) For acquisitions of commercial products, the make and model of the product to be delivered by the successful offeror.
- (6) Reasonable responses to relevant questions posed by the debriefed offeror as to whether source-selection procedures set forth in the solicitation, applicable regulations, and other applicable authorities were followed by the agency.

(End of provision)

## 52.212-2 EVALUATION--COMMERCIAL PRODUCTS AND COMMERCIAL SERVICES (NOV 2021)

(a) The Government will award a contract resulting from this solicitation to the responsible offeror whose offer conforming to the solicitation will be most advantageous to the Government, price and other factors considered. The following factors shall be used to evaluate offers:

Lowest Price of all Line Items combined

(b) Options. The Government will evaluate offers for award purposes by adding the total price for all options to the total price for the basic requirement. The Government may determine that an offer is unacceptable if the option prices are significantly unbalanced. Evaluation of options shall not obligate the Government to exercise the option(s).

(c) A written notice of award or acceptance of an offer, mailed or otherwise furnished to the successful offeror within the time for acceptance specified in the offer, shall result in a binding contract without further action by either party. Before the offer's specified expiration time, the Government may accept an offer (or part of an offer), whether or not there are negotiations after its receipt, unless a written notice of withdrawal is received before award.

(End of provision)

## 52.212-3 OFFEROR REPRESENTATIONS AND CERTIFICATIONS--COMMERCIAL PRODUCTS AND COMMERCIAL SERVICES (DEC 2022)

The Offeror shall complete only paragraph (b) of this provision if the Offeror has completed the annual representations and certification electronically in the System for Award Management (SAM) accessed through <https://www.sam.gov>. If the Offeror has not completed the annual representations and certifications electronically, the Offeror shall complete only paragraphs (c) through (v) of this provision.

(a) Definitions. As used in this provision --

"Covered telecommunications equipment or services" has the meaning provided in the clause 52.204-25, Prohibition on Contracting for Certain Telecommunications and Video Surveillance Services or Equipment.

"Economically disadvantaged women-owned small business (EDWOSB) concern" means a small business concern that is at least 51 percent directly and unconditionally owned by, and the management and daily business operations of which are controlled by, one or more women who are citizens of the United States and who are economically disadvantaged in accordance with 13 CFR part 127, and the concern is certified by SBA or an approved third-party certifier in accordance with 13 CFR 127.300. It automatically qualifies as a women-owned small business eligible under the WOSB Program.

"Forced or indentured child labor" means all work or service-

(1) Exacted from any person under the age of 18 under the menace of any penalty for its nonperformance and for which the worker does not offer himself voluntarily; or

(2) Performed by any person under the age of 18 pursuant to a contract the enforcement of which can be accomplished by process or penalties.

"Highest-level owner" means the entity that owns or controls an immediate owner of the offeror, or that owns or controls one or more entities that control an immediate owner of the offeror. No entity owns or exercises control of the highest level owner.

"Immediate owner" means an entity, other than the offeror, that has direct control of the offeror. Indicators of control include, but are not limited to, one or more of the following: Ownership or interlocking management, identity of interests among family members, shared facilities and equipment, and the common use of employees.

"Inverted domestic corporation" means a foreign incorporated entity that meets the definition of an inverted domestic corporation under 6 U.S.C. 395(b), applied in accordance with the rules and definitions of 6 U.S.C. 395(c).

"Manufactured end product" means any end product in product and service codes (PSCs) 1000-9999, except--

- (1) PSC 5510, Lumber and Related Basic Wood Materials;
- (2) Product or Service Group (PSG) 87, Agricultural Supplies;
- (3) PSG 88, Live Animals;
- (4) PSG 89, Subsistence;
- (5) PSC 9410, Crude Grades of Plant Materials;
- (6) PSC 9430, Miscellaneous Crude Animal Products, Inedible;
- (7) PSC 9440, Miscellaneous Crude Agricultural and Forestry Products;
- (8) PSC 9610, Ores;

(9) PSC 9620, Minerals, Natural and Synthetic; and

(10) PSC 9630, Additive Metal Materials.

"Place of manufacture" means the place where an end product is assembled out of components, or otherwise made or processed from raw materials into the finished product that is to be provided to the Government. If a product is disassembled and reassembled, the place of reassembly is not the place of manufacture.

"Predecessor" means an entity that is replaced by a successor and includes any predecessors of the predecessor.

"Reasonable inquiry" has the meaning provided in the clause 52.204-25, Prohibition on Contracting for Certain Telecommunications and Video Surveillance Services or Equipment.

"Restricted business operations" means business operations in Sudan that include power production activities, mineral extraction activities, oil-related activities, or the production of military equipment, as those terms are defined in the Sudan Accountability and Divestment Act of 2007 (Pub. L. 110-174). Restricted business operations do not include business operations that the person (as that term is defined in Section 2 of the Sudan Accountability and Divestment Act of 2007) conducting the business can demonstrate--

- (1) Are conducted under contract directly and exclusively with the regional government of southern Sudan;
- (2) Are conducted pursuant to specific authorization from the Office of Foreign Assets Control in the Department of the Treasury, or are expressly exempted under Federal law from the requirement to be conducted under such authorization;
- (3) Consist of providing goods or services to marginalized populations of Sudan;
- (4) Consist of providing goods or services to an internationally recognized peacekeeping force or humanitarian organization;
- (5) Consist of providing goods or services that are used only to promote health or education; or
- (6) Have been voluntarily suspended.

"Sensitive technology"--

(1) Means hardware, software, telecommunications equipment, or any other technology that is to be used specifically--

- (i) To restrict the free flow of unbiased information in Iran; or
- (ii) To disrupt, monitor, or otherwise restrict speech of the people of Iran; and

(2) Does not include information or informational materials the export of which the President does not have the authority to regulate or prohibit pursuant to section 203(b)(3) of the International Emergency Economic Powers Act (50 U.S.C. 1702(b)(3)).

"Service-disabled veteran-owned small business concern"--

(1) Means a small business concern--

- (i) Not less than 51 percent of which is owned by one or more service-disabled veterans or, in the case of any publicly owned business, not less than 51 percent of the stock of which is owned by one or more service-disabled veterans; and

(ii) The management and daily business operations of which are controlled by one or more service-disabled veterans or, in the case of a service-disabled veteran with permanent and severe disability, the spouse or permanent caregiver of such veteran.

(2) Service-disabled veteran means a veteran, as defined in 38 U.S.C. 101(2), with a disability that is service-connected, as defined in 38 U.S.C. 101(16).

"Small business concern"--

(1) Means a concern, including its affiliates, that is independently owned and operated, not dominant in its field of operation, and qualified as a small business under the criteria in 13 CFR part 121 and size standards in this solicitation.

(2) Affiliates, as used in this definition, means business concerns, one of whom directly or indirectly controls or has the power to control the others, or a third party or parties control or have the power to control the others. In determining whether affiliation exists, consideration is given to all appropriate factors including common ownership, common management, and contractual relationships. SBA determines affiliation based on the factors set forth at 13 CFR 121.103.

"Small disadvantaged business concern, consistent with 13 CFR 124.1002", means a small business concern under the size standard applicable to the acquisition, that--

(1) Is at least 51 percent unconditionally and directly owned (as defined at 13 CFR 124.105) by--

(i) One or more socially disadvantaged (as defined at 13 CFR 124.103) and economically disadvantaged (as defined at 13 CFR 124.104) individuals who are citizens of the United States; and

(ii) Each individual claiming economic disadvantage has a net worth not exceeding \$750,000 after taking into account the applicable exclusions set forth at 13 CFR 124.104(c)(2); and

(2) The management and daily business operations of which are controlled (as defined at 13 CFR 124.106) by individuals, who meet the criteria in paragraphs (1)(i) and (ii) of this definition.

"Subsidiary" means an entity in which more than 50 percent of the entity is owned--

(1) Directly by a parent corporation; or

(2) Through another subsidiary of a parent corporation.

"Successor" means an entity that has replaced a predecessor by acquiring the assets and carrying out the affairs of the predecessor under a new name (often through acquisition or merger). The term "successor" does not include new offices/divisions of the same company or a company that only changes its name. The extent of the responsibility of the successor for the liabilities of the predecessor may vary, depending on State law and specific circumstances.

"Veteran-owned small business concern" means a small business concern--

(1) Not less than 51 percent of which is owned by one or more veterans (as defined at 38 U.S.C. 101(2)) or, in the case of any publicly owned business, not less than 51 percent of the stock of which is owned by one or more veterans; and

(2) The management and daily business operations of which are controlled by one or more veterans.

"Women-owned business concern" means a concern which is at least 51 percent owned by one or more women; or in the case of any publicly owned business, at least 51 percent of its stock is owned by one or more women; and whose management and daily business operations are controlled by one or more women.

"Women-owned small business concern" means a small business concern--

(1) That is at least 51 percent owned by one or more women; or, in the case of any publicly owned business, at least 51 percent of the stock of which is owned by one or more women; and

(2) Whose management and daily business operations are controlled by one or more women.

"Women-owned small business (WOSB) concern eligible under the WOSB Program" (in accordance with 13 CFR part 127), means a small business concern that is at least 51 percent directly and unconditionally owned by, and the management and daily business operations of which are controlled by, one or more women who are citizens of the United States, and the concern is certified by SBA or an approved third-party certifier in accordance with 13 CFR 127.300.

(b) (1) Annual Representations and Certifications. Any changes provided by the Offeror in paragraph (b)(2) of this provision do not automatically change the representations and certifications in SAM.

(2) The offeror has completed the annual representations and certifications electronically in SAM accessed through <http://www.sam.gov>. After reviewing SAM information, the Offeror verifies by submission of this offer that the representations and certifications currently posted electronically at FAR 52.212-3, Offeror Representations and Certifications--Commercial Products and Commercial Services, have been entered or updated in the last 12 months, are current, accurate, complete, and applicable to this solicitation (including the business size standard(s) applicable to the NAICS code(s) referenced for this solicitation), at the time this offer is submitted and are incorporated in this offer by reference (see FAR 4.1201), except for paragraphs \_\_\_\_

[Offeror to identify the applicable paragraphs at (c) through (v) of this provision that the offeror has completed for the purposes of this solicitation only, if any.]

These amended representation(s) and/or certification(s) are also incorporated in this offer and are current, accurate, and complete as of the date of this offer.

Any changes provided by the offeror are applicable to this solicitation only, and do not result in an update to the representations and certifications posted electronically on SAM.]

(c) Offerors must complete the following representations when the resulting contract is for supplies to be delivered or services to be performed in the United States or its outlying areas, or when the contracting officer has applied part 19 in accordance with 19.000(b)(1)(ii). Check all that apply.

(1) Small business concern. The offeror represents as part of its offer that--

(i) It [ \_\_\_\_ ] is, [ \_\_\_\_ ] is not a small business concern; or

(ii) It [ \_\_\_\_ ] is, [ \_\_\_\_ ] is not a small business joint venture that complies with the requirements of 13 CFR 121.103(h) and 13 CFR 125.8(a) and (b). [The offeror shall enter the name and unique entity identifier of each party to the joint venture: \_\_\_\_ ]

(2) Veteran-owned small business concern. (Complete only if the offeror represented itself as a small business concern in paragraph (c)(1) of this provision.) The offeror represents as part of its offer that it [ \_\_\_\_ ] is, [ \_\_\_\_ ] is not a veteran-owned small business concern.

(3) Service-disabled veteran-owned small business concern. [Complete only if the offeror represented itself as a veteran-owned small business concern in paragraph (c)(2) of this provision.] The offeror represents as part of its offer that--

- (i) It [ \_\_\_\_ ] is, [ \_\_\_\_ ] is not a service-disabled veteran-owned small business concern; or
- (ii) It [ \_\_\_\_ ] is, [ \_\_\_\_ ] is not a joint venture that complies with the requirements of 13 CFR 125.18(b)(1) and (2). [The offeror shall enter the name and unique entity identifier of each party to the joint venture: \_\_\_\_ .] Each service-disabled veteran-owned small business concern participating in the joint venture shall provide representation of its service-disabled veteran-owned small business concern status.
- (4) Small disadvantaged business concern. (Complete only if the offeror represented itself as a small business concern in paragraph (c)(1) of this provision.) The offeror represents that it [ \_\_\_\_ ] is, [ \_\_\_\_ ] is not a small disadvantaged business concern as defined in 13 CFR 124.1002.
- (5) Women-owned small business concern. (Complete only if the offeror represented itself as a small business concern in paragraph (c)(1) of this provision.) The offeror represents that it [ \_\_\_\_ ] is, [ \_\_\_\_ ] is not a women-owned small business concern.
- (6) WOSB joint venture eligible under the WOSB Program. The offeror represents that it [ \_\_\_\_ ] is, [ \_\_\_\_ ] is not a joint venture that complies with the requirements of 13 CFR 127.506(a) through (c). [The offeror shall enter the name and unique entity identifier of each party to the joint venture: \_\_\_\_ .]
- (7) Economically disadvantaged women-owned small business (EDWOSB) joint venture. The offeror represents that it [ \_\_\_\_ ] is, [ \_\_\_\_ ] is not a joint venture that complies with the requirements of 13 CFR 127.506(a) through (c). [The offeror shall enter the name and unique entity identifier of each party to the joint venture: \_\_\_\_ .]
- (8) Women-owned business concern (other than small business concern). (Complete only if the offeror is a women-owned business concern and did not represent itself as a small business concern in paragraph (c)(1) of this provision.) The offeror represents that it ( \_\_\_\_ ) is, a women-owned business concern.
- (9) Tie bid priority for labor surplus area concerns. If this is an invitation for bid, small business offerors may identify the labor surplus areas in which costs to be incurred on account of manufacturing or production (by offeror or first-tier subcontractors) amount to more than 50 percent of the contract price:  
\_\_\_\_
- (10) HUBZone small business concern. [Complete only if the offeror represented itself as a small business concern in paragraph (c)(1) of this provision.] The offeror represents, as part of its offer, that--
- (i) It [ \_\_\_\_ ] is, [ \_\_\_\_ ] is not a HUBZone small business concern listed, on the date of this representation, as having been certified by SBA as a HUBZone small business concern in the Dynamic Small Business Search and SAM, and will attempt to maintain an employment rate of HUBZone residents of 35 percent of its employees during performance of a HUBZone contract (see 13 CFR 126.200(e)(1)); and
- (ii) It [ \_\_\_\_ ] is, [ \_\_\_\_ ] is not a HUBZone joint venture that complies with the requirements of 13 CFR 126.616(a) through (c). [The offeror shall enter the name and unique entity identifier of each party to the joint venture: \_\_\_\_ .] Each HUBZone small business concern participating in the HUBZone joint venture shall provide representation of its HUBZone status.
- (d) Certifications and representations required to implement provisions of Executive Order 11246--
- (1) Previous Contracts and Compliance. The offeror represents that--
- (i) It ( \_\_\_\_ ) has, ( \_\_\_\_ ) has not, participated in a previous contract or subcontract subject to the Equal Opportunity clause of this solicitation, and
- (ii) It ( \_\_\_\_ ) has, ( \_\_\_\_ ) has not, filed all required compliance reports.
- (2) Affirmative Action Compliance. The offeror represents that--

(i) It ( \_\_\_\_ ) has developed and has on file, ( \_\_\_\_ ) has not developed and does not have on file, at each establishment, affirmative action programs required by rules and regulations of the Secretary of Labor (41 CFR Subparts 60-1 and 60-2), or

(ii) It ( \_\_\_\_ ) has not previously had contracts subject to the written affirmative action programs requirement of the rules and regulations of the Secretary of Labor.

(e) Certification Regarding Payments to Influence Federal Transactions (31 U.S.C. 1352). (Applies only if the contract is expected to exceed \$150,000.) By submission of its offer, the offeror certifies to the best of its knowledge and belief that no Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress or an employee of a Member of Congress on his or her behalf in connection with the award of any resultant contract. If any registrants under the Lobbying Disclosure Act of 1995 have made a lobbying contact on behalf of the offeror with respect to this contract, the offeror shall complete and submit, with its offer, OMB Standard Form LLL, Disclosure of Lobbying Activities, to provide the name of the registrants. The offeror need not report regularly employed officers or employees of the offeror to whom payments of reasonable compensation were made.

(f) Buy American Certificate. (Applies only if the clause at Federal Acquisition Regulation (FAR) 52.225-1, Buy American --Supplies, is included in this solicitation.)

(1) (i) The Offeror certifies that each end product, except those listed in paragraph (f)(2) of this provision, is a domestic end product and that each domestic end product listed in paragraph (f)(3) of this provision contains a critical component.

(ii) The Offeror shall list as foreign end products those end products manufactured in the United States that do not qualify as domestic end products. For those foreign end products that do not consist wholly or predominantly of iron or steel or a combination of both, the Offeror shall also indicate whether these foreign end products exceed 55 percent domestic content, except for those that are COTS items. If the percentage of the domestic content is unknown, select "no".

(iii) The Offeror shall separately list the line item numbers of domestic end products that contain a critical component (see FAR 25.105).

(iv) The terms "commercially available off-the-shelf (COTS) item," "critical component," "domestic end product," "end product," "foreign end product," and "United States" are defined in the clause of this solicitation entitled "Buy American-Supplies."

(2) Foreign End Products:

Line Item No.	Country of origin	Exceeds 55% domestic content (yes/no)
____	____	____
____	____	____
____	____	____

[List as necessary]

(3) Domestic end products containing a critical component:

Line Item No.
_____
_____
_____

[List as necessary]

(4) The Government will evaluate offers in accordance with the policies and procedures of FAR part 25.

(g)(1) Buy American--Free Trade Agreements--Israeli Trade Act Certificate. (Applies only if the clause at FAR 52.225-3, Buy American--Free Trade Agreements--Israeli Trade Act, is included in this solicitation.)

(i) (A) The Offeror certifies that each end product, except those listed in paragraph (g)(1)(ii) or (iii) of this provision, is a domestic end product and that each domestic end product listed in paragraph (g)(1)(iv) of this provision contains a critical component.

(B) The terms "Bahrainian, Moroccan, Omani, Panamanian, or Peruvian end product," "commercially available off-the-shelf (COTS) item," "critical component," "domestic end product," "end product," "foreign end product," "Free Trade Agreement country," "Free Trade Agreement country end product," "Israeli end product," and "United States" are defined in the clause of this solicitation entitled "Buy American--Free Trade Agreements--Israeli Trade Act."

(ii) The Offeror certifies that the following supplies are Free Trade Agreement country end products (other than Bahrainian, Moroccan, Omani, Panamanian, or Peruvian end products) or Israeli end products as defined in the clause of this solicitation entitled "Buy American--Free Trade Agreements--Israeli Trade Act."

Free Trade Agreement Country End Products (Other than Bahrainian, Moroccan, Omani, Panamanian, or Peruvian End Products) or Israeli End Products:

Line Item No.	Country of origin
_____	_____
_____	_____
_____	_____

[List as necessary]

(iii) The Offeror shall list those supplies that are foreign end products (other than those listed in paragraph (g)(1)(ii) of this provision) as defined in the clause of this solicitation entitled "Buy American--Free Trade Agreements--Israeli Trade Act." The Offeror shall list as other foreign end products those end products manufactured in the United States that do not qualify as domestic end products. For those foreign end products that do not consist wholly or predominantly of iron or steel or a combination of both, the Offeror shall also indicate whether these foreign end products exceed 55 percent domestic content, except for those that are COTS items. If the percentage of the domestic content is unknown, select "no".

Other Foreign End Products:

Line Item No.	Country of origin	Exceeds 55% domestic content (yes/no)
_____	_____	_____
_____	_____	_____
_____	_____	_____

[List as necessary]

(iv) The Offeror shall list the line item numbers of domestic end products that contain a critical component (see FAR 25.105).

Line Item No.
_____
_____
_____

[List as necessary]

(v) The Government will evaluate offers in accordance with the policies and procedures of FAR part 25.

(2) Buy American-Free Trade Agreements-Israeli Trade Act Certificate, Alternate II. If Alternate II to the clause at FAR 52.225-3 is included in this solicitation, substitute the following paragraph (g)(1)(ii) for paragraph (g)(1)(ii) of the basic provision:

(g)(1)(ii) The offeror certifies that the following supplies are Israeli end products as defined in the clause of this solicitation entitled "Buy American-Free Trade Agreements-Israeli Trade Act":

Israeli End Products:

Line Item No.
_____
_____
_____

[List as necessary]

(3) Buy American--Free Trade Agreements--Israeli Trade Act Certificate, Alternate III. If Alternate III to the clause at FAR 52.225-3 is included in this solicitation, substitute the following paragraph (g)(1)(ii) for paragraph (g)(1)(ii) of the basic provision:

(g)(1)(ii) The offeror certifies that the following supplies are Free Trade Agreement country end products (other than Bahrainian, Korean, Moroccan, Omani, Panamanian, or Peruvian end products) or Israeli end products as defined in the clause of this solicitation entitled "Buy American --Free Trade Agreements--Israeli Trade Act":

Free Trade Agreement Country End Products (Other than Bahrainian, Korean, Moroccan, Omani, Panamanian, or Peruvian End Products) or Israeli End Products:

Line Item No.	Country of origin
—	—
—	—
—	—

[List as necessary]

(4) Trade Agreements Certificate. (Applies only if the clause at FAR 52.225-5, Trade Agreements, is included in this solicitation.)

(i) The offeror certifies that each end product, except those listed in paragraph (g)(5)(ii) of this provision, is a U.S.-made or designated country end product, as defined in the clause of this solicitation entitled "Trade Agreements".

(ii) The offeror shall list as other end products those end products that are not U.S.-made or designated country end products.

Other End Products:

Line Item No.	Country of origin
—	—
—	—
—	—

[List as necessary]

(iii) The Government will evaluate offers in accordance with the policies and procedures of FAR Part 25. For line items covered by the WTO GPA, the Government will evaluate offers of U.S.-made or designated country end products without regard to the restrictions of the Buy American statute. The Government will consider for award only offers of U.S.-made or designated country end products unless the Contracting Officer determines that there are no offers for such products or that the offers for such products are insufficient to fulfill the requirements of the solicitation.

(h) Certification Regarding Responsibility Matters (Executive Order 12689). (Applies only if the contract value is expected to exceed the simplified acquisition threshold.) The offeror certifies, to the best of its knowledge and belief, that the offeror and/or any of its principals--

(1) [ \_\_\_\_ ] Are, [ \_\_\_\_ ] are not presently debarred, suspended, proposed for debarment, or declared ineligible for the award of contracts by any Federal agency;

(2) [ \_\_\_\_ ] Have, [ \_\_\_\_ ] have not, within a three-year period preceding this offer, been convicted of or had a civil judgment rendered against them for: commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a Federal, state or local government contract or subcontract; violation of Federal

or state antitrust statutes relating to the submission of offers; or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, tax evasion, violating Federal criminal tax laws, or receiving stolen property;

(3) [ \_\_\_\_ ] Are, [ \_\_\_\_ ] are not presently indicted for, or otherwise criminally or civilly charged by a Government entity with, commission of any of these offenses enumerated in paragraph (h)(2) of this clause; and

(4) [ \_\_\_\_ ] Have, [ \_\_\_\_ ] have not, within a three-year period preceding this offer, been notified of any delinquent Federal taxes in an amount that exceeds the threshold at 9.104-5(a)(2) for which the liability remains unsatisfied.

(i) Taxes are considered delinquent if both of the following criteria apply:

(A) The tax liability is finally determined. The liability is finally determined if it has been assessed. A liability is not finally determined if there is a pending administrative or judicial challenge. In the case of a judicial challenge to the liability, the liability is not finally determined until all judicial appeal rights have been exhausted.

(B) The taxpayer is delinquent in making payment. A taxpayer is delinquent if the taxpayer has failed to pay the tax liability when full payment was due and required. A taxpayer is not delinquent in cases where enforced collection action is precluded.

(ii) Examples.

(A) The taxpayer has received a statutory notice of deficiency, under I.R.C. §6212, which entitles the taxpayer to seek Tax Court review of a proposed tax deficiency. This is not a delinquent tax because it is not a final tax liability. Should the taxpayer seek Tax Court review, this will not be a final tax liability until the taxpayer has exercised all judicial appeal rights.

(B) The IRS has filed a notice of Federal tax lien with respect to an assessed tax liability, and the taxpayer has been issued a notice under I.R.C. §6320 entitling the taxpayer to request a hearing with the IRS Office of Appeals contesting the lien filing, and to further appeal to the Tax Court if the IRS determines to sustain the lien filing. In the course of the hearing, the taxpayer is entitled to contest the underlying tax liability because the taxpayer has had no prior opportunity to contest the liability. This is not a delinquent tax because it is not a final tax liability. Should the taxpayer seek tax court review, this will not be a final tax liability until the taxpayer has exercised all judicial appeal rights.

(C) The taxpayer has entered into an installment agreement pursuant to I.R.C. §6159. The taxpayer is making timely payments and is in full compliance with the agreement terms. The taxpayer is not delinquent because the taxpayer is not currently required to make full payment.

(D) The taxpayer has filed for bankruptcy protection. The taxpayer is not delinquent because enforced collection action is stayed under 11 U.S.C. §362 (the Bankruptcy Code).

(i) Certification Regarding Knowledge of Child Labor for Listed End Products (Executive Order 13126). [The Contracting Officer must list in paragraph (i)(1) any end products being acquired under this solicitation that are included in the List of Products Requiring Contractor Certification as to Forced or Indentured Child Labor, unless excluded at [22.1503\(b\)](#).]

(1) Listed end products.

Listed end product	Listed countries of origin
—	—
—	—
—	—

(2) Certification. [If the Contracting Officer has identified end products and countries of origin in paragraph (i)(1) of this provision, then the offeror must certify to either (i)(2)(i) or (i)(2)(ii) by checking the appropriate block.]

[ ☐ ] (i) The offeror will not supply any end product listed in paragraph (i)(1) of this provision that was mined, produced, or manufactured in the corresponding country as listed for that product.

[ ☐ ] (ii) The offeror may supply an end product listed in paragraph (i)(1) of this provision that was mined, produced, or manufactured in the corresponding country as listed for that product. The offeror certifies that it has made a good faith effort to determine whether forced or indentured child labor was used to mine, produce, or manufacture any such end product furnished under this contract. On the basis of those efforts, the offeror certifies that it is not aware of any such use of child labor.

(j) Place of manufacture. (Does not apply unless the solicitation is predominantly for the acquisition of manufactured end products.) For statistical purposes only, the offeror shall indicate whether the place of manufacture of the end products it expects to provide in response to this solicitation is predominantly—

(1) ( ☐ ) In the United States (Check this box if the total anticipated price of offered end products manufactured in the United States exceeds the total anticipated price of offered end products manufactured outside the United States); or

(2) ( ☐ ) Outside the United States.

(k) Certificates regarding exemptions from the application of the Service Contract Labor Standards. (Certification by the offeror as to its compliance with respect to the contract also constitutes its certification as to compliance by its subcontractor if it subcontracts out the exempt services.)

[The contracting officer is to check a box to indicate if paragraph (k)(1) or (k)(2) applies.]

[ ☐ ] (1) Maintenance, calibration, or repair of certain equipment as described in FAR 22.1003-4(c)(1). The offeror ( ☐ ) does ( ☐ ) does not certify that—

(i) The items of equipment to be serviced under this contract are used regularly for other than Governmental purposes and are sold or traded by the offeror (or subcontractor in the case of an exempt subcontract) in substantial quantities to the general public in the course of normal business operations;

(ii) The services will be furnished at prices which are, or are based on, established catalog or market prices (see FAR 22.1003-4(c)(2)(ii)) for the maintenance, calibration, or repair of such equipment; and

(iii) The compensation (wage and fringe benefits) plan for all service employees performing work under the contract will be the same as that used for these employees and equivalent employees servicing the same equipment of commercial customers.

[ ☐ ] (2) Certain services as described in FAR 22.1003-4(d)(1). The offeror ( ☐ ) does ( ☐ ) does not certify that—

(i) The services under the contract are offered and sold regularly to non-Governmental customers, and are provided by the offeror (or subcontractor in the case of an exempt subcontract) to the general public in substantial quantities in the course of normal business operations;

(ii) The contract services will be furnished at prices that are, or are based on, established catalog or market prices (see FAR 22.1003-4(d)(2)(iii));

(iii) Each service employee who will perform the services under the contract will spend only a small portion of his or her time (a monthly average of less than 20 percent of the available hours on an annualized basis, or less than 20 percent of available hours during the contract period if the contract period is less than a month) servicing the Government contract; and

(iv) The compensation (wage and fringe benefits) plan for all service employees performing work under the contract is the same as that used for these employees and equivalent employees servicing commercial customers.

(3) If paragraph (k)(1) or (k)(2) of this clause applies—

(i) If the offeror does not certify to the conditions in paragraph (k)(1) or (k)(2) and the Contracting Officer did not attach a Service Contract Labor Standards wage determination to the solicitation, the offeror shall notify the Contracting Officer as soon as possible; and

(ii) The Contracting Officer may not make an award to the offeror if the offeror fails to execute the certification in paragraph (k)(1) or (k)(2) of this clause or to contact the Contracting Officer as required in paragraph (k)(3)(i) of this clause.

(l) Taxpayer Identification Number (TIN) (26 U.S.C. 6109, 31 U.S.C. 7701). (Not applicable if the offeror is required to provide this information to SAM to be eligible for award.)

(1) All offerors must submit the information required in paragraphs (l)(3) through (l)(5) of this provision to comply with debt collection requirements of 31 U.S.C. 7701(c) and 3325(d), reporting requirements of 26 U.S.C. 6041, 6041A, and 6050M, and implementing regulations issued by the Internal Revenue Service (IRS).

(2) The TIN may be used by the Government to collect and report on any delinquent amounts arising out of the offeror's relationship with the Government (31 U.S.C. 7701(c)(3)). If the resulting contract is subject to the payment reporting requirements described in FAR 4.904, the TIN provided hereunder may be matched with IRS records to verify the accuracy of the offeror's TIN.

(3) Taxpayer Identification Number (TIN).

( ☐ ) TIN: -----.

( ☐ ) TIN has been applied for.

( ☐ ) TIN is not required because:

( ☐ ) Offeror is a nonresident alien, foreign corporation, or foreign partnership that does not have income effectively connected with the conduct of a trade or business in the United States and does not have an office or place of business or a fiscal paying agent in the United States;

( ☐ ) Offeror is an agency or instrumentality of a foreign government;

( ☐ ) Offeror is an agency or instrumentality of the Federal Government.

(4) Type of organization.

- ( ☐ ) Sole proprietorship;
- ( ☐ ) Partnership;
- ( ☐ ) Corporate entity (not tax-exempt);
- ( ☐ ) Corporate entity (tax-exempt);
- ( ☐ ) Government entity (Federal, State, or local);
- ( ☐ ) Foreign government;
- ( ☐ ) International organization per 26 CFR 1.6049-4;
- ( ☐ ) Other -----.

(5) Common parent.

( ☐ ) Offeror is not owned or controlled by a common parent;

( ☐ ) Name and TIN of common parent:

Name -  .

TIN -  .

(m) Restricted business operations in Sudan. By submission of its offer, the offeror certifies that the offeror does not conduct any restricted business operations in Sudan.

(n) Prohibition on Contracting with Inverted Domestic Corporations—

(1) Government agencies are not permitted to use appropriated (or otherwise made available) funds for contracts with either an inverted domestic corporation, or a subsidiary of an inverted domestic corporation, unless the exception at 9.108-2(b) applies or the requirement is waived in accordance with the procedures at 9.108-4.

(2) Representation. The Offeror represents that--

(i) It is not an inverted domestic corporation; and

(ii) It is not a subsidiary of an inverted domestic corporation.

(o) Prohibition on contracting with entities engaging in certain activities or transactions relating to Iran.

(1) The offeror shall e-mail questions concerning sensitive technology to the Department of State at [CISADA106@state.gov](mailto:CISADA106@state.gov).

(2) Representation and Certifications. Unless a waiver is granted or an exception applies as provided in paragraph (o)(3) of this provision, by submission of its offer, the offeror—

(i) Represents, to the best of its knowledge and belief, that the offeror does not export any sensitive technology to the government of Iran or any entities or individuals owned or controlled by, or acting on behalf or at the direction of, the government of Iran;

(ii) Certifies that the offeror, or any person owned or controlled by the offeror, does not engage in any activities for which sanctions may be imposed under section 5 of the Iran Sanctions Act; and

(iii) Certifies that the offeror, and any person owned or controlled by the offeror, does not knowingly engage in any transaction that exceeds the threshold at FAR 25.703-2(a)(2) with Iran's Revolutionary Guard Corps or any of its officials, agents, or affiliates, the property and interests in property of which are blocked pursuant to the International Emergency Economic Powers Act (50 U.S.C. 1701 et seq.) (see OFAC's Specially Designated Nationals and Blocked Persons List at <https://www.treasury.gov/resource-center/sanctions/SDN-List/Pages/default.aspx>).

(3) The representation and certification requirements of paragraph (o)(2) of this provision do not apply if—

(i) This solicitation includes a trade agreements certification (*e.g.*, [52.212-3\(g\)](#)) or a comparable agency provision); and

(ii) The offeror has certified that all the offered products to be supplied are designated country end products.

(p) Ownership or Control of Offeror. (Applies in all solicitations when there is a requirement to be registered in SAM or a requirement to have a unique entity identifier in the solicitation.

(1) The Offeror represents that it [ \_\_\_\_ ] has or [ \_\_\_\_ ] does not have an immediate owner. If the Offeror has more than one immediate owner (such as a joint venture), then the Offeror shall respond to paragraph (2) and if applicable, paragraph (3) of this provision for each participant in the joint venture.

(2) If the Offeror indicates “has” in paragraph (p)(1) of this provision, enter the following information:

Immediate owner CAGE code: \_\_\_\_

Immediate owner legal name: \_\_\_\_

(Do not use a “doing business as” name)

Is the immediate owner owned or controlled by another entity:

[ \_\_\_\_ ] Yes or [ \_\_\_\_ ] No.

(3) If the Offeror indicates “yes” in paragraph (p)(2) of this provision, indicating that the immediate owner is owned or controlled by another entity, then enter the following information:

Highest level owner CAGE code: \_\_\_\_

Highest level owner legal name: \_\_\_\_

(Do not use a “doing business as” name)

(q) Representation by Corporations Regarding Delinquent Tax Liability or a Felony Conviction under any Federal Law.

(1) As required by sections 744 and 745 of Division E of the Consolidated and Further Continuing Appropriations Act, 2015 (Pub. L. 113-235), and similar provisions, if contained in subsequent appropriations acts, the Government will not enter into a contract with any corporation that—

(i) Has any unpaid Federal tax liability that has been assessed, for which all judicial and administrative remedies have been exhausted or have lapsed, and that is not being paid in a timely manner pursuant to an agreement with the

authority responsible for collecting the tax liability, where the awarding agency is aware of the unpaid tax liability, unless an agency has considered suspension or debarment of the corporation and made a determination that suspension or debarment is not necessary to protect the interests of the Government; or

(ii) Was convicted of a felony criminal violation under any Federal law within the preceding 24 months, where the awarding agency is aware of the conviction, unless an agency has considered suspension or debarment of the corporation and made a determination that this action is not necessary to protect the interests of the Government.

(2) The Offeror represents that--

(i) It is [ \_\_\_\_ ] is not [ \_\_\_\_ ] a corporation that has any unpaid Federal tax liability that has been assessed, for which all judicial and administrative remedies have been exhausted or have lapsed, and that is not being paid in a timely manner pursuant to an agreement with the authority responsible for collecting the tax liability; and

(ii) It is [ \_\_\_\_ ] is not [ \_\_\_\_ ] a corporation that was convicted of a felony criminal violation under a Federal law within the preceding 24 months.

(r) Predecessor of Offeror. (Applies in all solicitations that include the provision at 52.204-16, Commercial and Government Entity Code Reporting.)

(1) The Offeror represents that it [ \_\_\_\_ ] is or [ \_\_\_\_ ] is not a successor to a predecessor that held a Federal contract or grant within the last three years.

(2) If the Offeror has indicated "is" in paragraph (r)(1) of this provision, enter the following information for all predecessors that held a Federal contract or grant within the last three years (if more than one predecessor, list in reverse chronological order):

Predecessor CAGE code: \_\_\_\_ (or mark "Unknown").

Predecessor legal name: \_\_\_\_ .

(Do not use a "doing business as" name).

(s) [Reserved].

(t) Public Disclosure of Greenhouse Gas Emissions and Reduction Goals. Applies in all solicitations that require offerors to register in SAM (12.301(d)(1)).

(1) This representation shall be completed if the Offeror received \$7.5 million or more in contract awards in the prior Federal fiscal year. The representation is optional if the Offeror received less than \$7.5 million in Federal contract awards in the prior Federal fiscal year.

(2) Representation. [Offeror to check applicable block(s) in paragraph (t)(2)(i) and (ii)].

(i) The Offeror (itself or through its immediate owner or highest-level owner) [ \_\_\_\_ ] does, [ \_\_\_\_ ] does not publicly disclose greenhouse gas emissions, i.e., makes available on a publicly accessible website the results of a greenhouse gas inventory, performed in accordance with an accounting standard with publicly available and consistently applied criteria, such as the Greenhouse Gas Protocol Corporate Standard.

(ii) The Offeror (itself or through its immediate owner or highest-level owner) [ \_\_\_\_ ] does, [ \_\_\_\_ ] does not publicly disclose a quantitative greenhouse gas emissions reduction goal, i.e., make available on a publicly accessible website a target to reduce absolute emissions or emissions intensity by a specific quantity or percentage.

(iii) A publicly accessible website includes the Offeror's own website or a recognized, third-party greenhouse gas emissions reporting program.

(3) If the Offeror checked "does" in paragraphs (t)(2)(i) or (t)(2)(ii) of this provision, respectively, the Offeror shall provide the publicly accessible website(s) where greenhouse gas emissions and/or reduction goals are reported: \_\_\_\_

(u)(1) In accordance with section 743 of Division E, Title VII, of the Consolidated and Further Continuing Appropriations Act, 2015 (Pub. L. 113-235) and its successor provisions in subsequent appropriations acts (and as extended in continuing resolutions), Government agencies are not permitted to use appropriated (or otherwise made available) funds for contracts with an entity that requires employees or subcontractors of such entity seeking to report waste, fraud, or abuse to sign internal confidentiality agreements or statements prohibiting or otherwise restricting such employees or subcontractors from lawfully reporting such waste, fraud, or abuse to a designated investigative or law enforcement representative of a Federal department or agency authorized to receive such information.

(2) The prohibition in paragraph (u)(1) of this provision does not contravene requirements applicable to Standard Form 312 (Classified Information Nondisclosure Agreement), Form 4414 (Sensitive Compartmented Information Nondisclosure Agreement), or any other form issued by a Federal department or agency governing the nondisclosure of classified information.

(3) Representation. By submission of its offer, the Offeror represents that it will not require its employees or subcontractors to sign or comply with internal confidentiality agreements or statements prohibiting or otherwise restricting such employees or subcontractors from lawfully reporting waste, fraud, or abuse related to the performance of a Government contract to a designated investigative or law enforcement representative of a Federal department or agency authorized to receive such information (e.g., agency Office of the Inspector General).

(v) Covered Telecommunications Equipment or Services--Representation. Section 889(a)(1)(A) and section 889(a)(1)(B) of Public Law 115-232.

(1) The Offeror shall review the list of excluded parties in the System for Award Management (SAM) (<https://www.sam.gov>) for entities excluded from receiving federal awards for "covered telecommunications equipment or services".

(2) The Offeror represents that--

(i) It [ \_\_\_\_ ] does, [ \_\_\_\_ ] does not provide covered telecommunications equipment or services as a part of its offered products or services to the Government in the performance of any contract, subcontract, or other contractual instrument.

(ii) After conducting a reasonable inquiry for purposes of this representation, that it [ \_\_\_\_ ] does, [ \_\_\_\_ ] does not use covered telecommunications equipment or services, or any equipment, system, or service that uses covered telecommunications equipment or services.

(End of provision)

## 52.212-5 CONTRACT TERMS AND CONDITIONS REQUIRED TO IMPLEMENT STATUTES OR EXECUTIVE ORDERS--COMMERCIAL PRODUCTS AND COMMERCIAL SERVICES (JUN 2023)

(a) The Contractor shall comply with the following Federal Acquisition Regulation (FAR) clauses, which are incorporated in this contract by reference, to implement provisions of law or Executive orders applicable to acquisitions of commercial products and commercial services:

(1) 52.203-19, Prohibition on Requiring Certain Internal Confidentiality Agreements or Statements (JAN 2017) (section 743 of Division E, Title VII, of the Consolidated and Further Continuing Appropriations Act, 2015 (Pub. L. 113-235) and its successor provisions in subsequent appropriations acts (and as extended in continuing resolutions)).

(2) 52.204-23, Prohibition on Contracting for Hardware, Software, and Services Developed or Provided by Kaspersky Lab and Other Covered Entities (NOV 2021) (Section 1634 of Pub. L. 115-91).

(3) 52.204-25, Prohibition on Contracting for Certain Telecommunications and Video Surveillance Services or Equipment. (NOV 2021) (Section 889(a)(1)(A) of Pub. L. 115-232).

(4) 52.209-10, Prohibition on Contracting with Inverted Domestic Corporations (NOV 2015).

(5) 52.232-40, Providing Accelerated Payments to Small Business Subcontractors (MAR 2023) (31 U.S.C. 3903 and 10 U.S.C. 3801).

(6) 52.233-3, Protest After Award (AUG 1996) (31 U.S.C. 3553).

(7) 52.233-4, Applicable Law for Breach of Contract Claim (OCT 2004) (Public Laws 108-77 and 108-78 (19 U.S.C. 3805 note)).

(b) The Contractor shall comply with the FAR clauses in this paragraph (b) that the Contracting Officer has indicated as being incorporated in this contract by reference to implement provisions of law or Executive orders applicable to acquisitions of commercial products and commercial services: [Contracting Officer check as appropriate.]

X (1) 52.203-6, Restrictions on Subcontractor Sales to the Government (JUN 2020), with Alternate I (NOV 2021) (41 U.S.C. 4704 and 10 U.S.C. 4655).

X (2) 52.203-13, Contractor Code of Business Ethics and Conduct (NOV 2021) (41 U.S.C. 3509).

\_\_\_ (3) 52.203-15, Whistleblower Protections under the American Recovery and Reinvestment Act of 2009 (JUN 2010) (Section 1553 of Pub. L. 111-5). (Applies to contracts funded by the American Recovery and Reinvestment Act of 2009.)

X (4) 52.204-10, Reporting Executive Compensation and First-Tier Subcontract Awards (JUN 2020) (Pub. L. 109-282) (31 U.S.C. 6101 note).

\_\_\_ (5) [Reserved]

\_\_\_ (6) 52.204-14, Service Contract Reporting Requirements (OCT 2016) (Pub. L. 111-117, section 743 of Div. C).

\_\_\_ (7) 52.204-15, Service Contract Reporting Requirements for Indefinite-Delivery Contracts (OCT 2016) (Pub. L. 111-117, section 743 of Div. C).

\_X\_ (8) 52.204-27, Prohibition on a ByteDance Covered Application (JUN 2023) (Section 102 of Division R of Pub. L. 117-328).

X (9) 52.209-6, Protecting the Government's Interest When Subcontracting with Contractors Debarred, Suspended, or Proposed for Debarment. (NOV 2021) (31 U.S.C. 6101 note).

X (10) 52.209-9, Updates of Publicly Available Information Regarding Responsibility Matters (OCT 2018) (41 U.S.C. 2313).

\_\_\_\_ (11) [Reserved]

\_\_\_\_ (12) 52.219-3, Notice of HUBZone Set-Aside or Sole-Source Award (OCT 2022) (15 U.S.C. 657a).

\_\_\_\_ (13) 52.219-4, Notice of Price Evaluation Preference for HUBZone Small Business Concerns (OCT 2022) (if the offeror elects to waive the preference, it shall so indicate in its offer) (15 U.S.C. 657a).

\_\_\_\_ (14) [Reserved]

X (15)(i) 52.219-6, Notice of Total Small Business Set-Aside (NOV 2020) (15 U.S.C. 644).

\_\_\_\_ (ii) Alternate I (MAR 2020) of 52.219-6.

\_\_\_\_ (16)(i) 52.219-7, Notice of Partial Small Business Set-Aside (NOV 2020) (15 U.S.C. 644).

\_\_\_\_ (ii) Alternate I (MAR 2020) of 52.219-7.

X (17) 52.219-8, Utilization of Small Business Concerns (OCT 2022) (15 U.S.C. 637(d)(2) and (3)).

\_\_\_\_ (18)(i) 52.219-9, Small Business Subcontracting Plan (OCT 2022) (15 U.S.C. 637(d)(4)).

\_\_\_\_ (ii) Alternate I (NOV 2016) of 52.219-9.

\_\_\_\_ (iii) Alternate II (NOV 2016) of 52.219-9.

\_\_\_\_ (iv) Alternate III (JUN 2020) of 52.219-9.

\_\_\_\_ (v) Alternate IV (SEP 2021) of 52.219-9.

\_\_\_\_ (19) (i) 52.219-13, Notice of Set-Aside of Orders (MAR 2020) (15 U.S.C. 644(r)).

\_\_\_\_ (ii) Alternate I (MAR 2020) of 52.219-13.

X (20) 52.219-14, Limitations on Subcontracting (OCT 2022) (15 U.S.C. 657s).

\_\_\_\_ (21) 52.219-16, Liquidated Damages—Subcontracting Plan (SEP 2021) (15 U.S.C. 637(d)(4)(F)(i)).

\_\_\_\_ (22) 52.219-27, Notice of Service-Disabled Veteran-Owned Small Business Set-Aside (OCT 2022) (15 U.S.C. 657f).

X (23) (i) 52.219-28, Post-Award Small Business Program Rerepresentation (MAR 2023) (15 U.S.C. 632(a)(2)).

\_\_\_\_ (ii) Alternate I (MAR 2020) of 52.219-28.

\_\_\_\_ (24) 52.219-29, Notice of Set-Aside for, or Sole-Source Award to, Economically Disadvantaged Women-Owned Small Business Concerns (OCT 2022) (15 U.S.C. 637(m)).

\_\_\_\_ (25) 52.219-30, Notice of Set-Aside for, or Sole-Source Award to, Women-Owned Small Business Concerns Eligible Under the Women-Owned Small Business Program (OCT 2022) (15 U.S.C. 637(m)).

\_\_\_\_ (26) 52.219-32, Orders Issued Directly Under Small Business Reserves (MAR 2020) (15 U.S.C. 644(r)).

X (27) 52.219-33, Nonmanufacturer Rule (SEP 2021) (15 U.S.C. 657s).

X (28) 52.222-3, Convict Labor (JUN 2003) (E.O. 11755).

X (29) 52.222-19, Child Labor--Cooperation with Authorities and Remedies (DEC 2022) (E.O. 13126).

X (30) 52.222-21, Prohibition of Segregated Facilities (APR 2015).

X (31)(i) 52.222-26, Equal Opportunity (SEP 2016) (E.O. 11246).

\_\_\_\_ (ii) Alternate I (FEB 1999) of 52.222-26.

X (32)(i) 52.222-35, Equal Opportunity for Veterans (JUN 2020) (38 U.S.C. 4212).

\_\_\_\_ (ii) Alternate I (JUL 2014) of 52.222-35.

X (33)(i) 52.222-36, Equal Opportunity for Workers with Disabilities (JUN 2020) (29 U.S.C. 793).

\_\_\_\_ (ii) Alternate I (JUL 2014) of 52.222-36.

X (34) 52.222-37, Employment Reports on Veterans (JUN 2020) (38 U.S.C. 4212).

X (35) 52.222-40, Notification of Employee Rights Under the National Labor Relations Act (DEC 2010) (E.O. 13496).

X (36)(i) 52.222-50, Combating Trafficking in Persons (NOV 2021) (22 U.S.C. chapter 78 and E.O. 13627).

\_\_\_\_ (ii) Alternate I (MAR 2015) of 52.222-50 (22 U.S.C. chapter 78 and E.O. 13627).

X (37) 52.222-54, Employment Eligibility Verification (MAY 2022). (E. O. 12989). (Not applicable to the acquisition of commercially available off-the-shelf items or certain other types of commercial products or commercial services as prescribed in FAR 22.1803.)

X (38)(i) 52.223-9, Estimate of Percentage of Recovered Material Content for EPA-Designated Items (MAY 2008) (42 U.S.C. 6962(c)(3)(A)(ii)). (Not applicable to the acquisition of commercially available off-the-shelf items.)

\_\_\_\_ (ii) Alternate I (MAY 2008) of 52.223-9 (42 U.S.C. 6962(i)(2)(C)). (Not applicable to the acquisition of commercially available off-the-shelf items.)

\_\_\_\_ (39) 52.223-11, Ozone-Depleting Substances and High Global Warming Potential Hydrofluorocarbons (JUN 2016) (E.O. 13693).

\_\_\_\_ (40) 52.223-12, Maintenance, Service, Repair, or Disposal of Refrigeration Equipment and Air Conditioners (JUN 2016) (E.O. 13693).

\_\_\_\_ (41)(i) 52.223-13, Acquisition of EPEAT® Registered Imaging Equipment (JUN 2014) (E.O.s 13423 and 13514).

\_\_\_\_ (ii) Alternate I (OCT 2015) of 52.223-13.

\_\_\_\_ (42)(i) 52.223-14, Acquisition of EPEAT® Registered Televisions (JUN 2014) (E.O.s 13423 and 13514).

\_\_\_\_ (ii) Alternate I (JUN 2014) of 52.223-14.

\_\_\_\_ (43) 52.223-15, Energy Efficiency in Energy-Consuming Products (MAY 2020) (42 U.S.C. 8259b).

\_\_\_\_ (44)(i) 52.223-16, Acquisition of EPEAT®-Registered Personal Computer Products (OCT 2015) (E.O.s 13423 and 13514).

\_\_\_\_ (ii) Alternate I (JUN 2014) of 52.223-16.

X (45) 52.223-18, Encouraging Contractor Policies to Ban Text Messaging While Driving (JUN 2020) (E.O. 13513).

\_\_\_\_ (46) 52.223-20, Aerosols (JUN 2016) (E.O. 13693).

\_\_\_\_ (47) 52.223-21, Foams (JUN 2016) (E.O. 13693).

\_\_\_\_ (48)(i) 52.224-3, Privacy Training (JAN 2017) (5 U.S.C. 552a).

\_\_\_\_ (ii) Alternate I (JAN 2017) of 52.224-3.

\_\_\_\_ (49) (i) 52.225-1, Buy American--Supplies (OCT 2022) (41 U.S.C. chapter 83).

\_\_\_\_ (ii) Alternate I (OCT 2022) of 52.225-1.

\_\_\_\_ (50)(i) 52.225-3, Buy American-Free Trade Agreements-Israeli Trade Act (DEC 2022) (19 U.S.C. 3301 note, 19 U.S.C. 2112 note, 19 U.S.C. 3805 note, 19 U.S.C. 4001 note, 19 U.S.C. chapter 29 (sections 4501-4732), Public Law 103-182, 108-77, 108-78, 108-286, 108-302, 109-53, 109-169, 109-283, 110-138, 112-41, 112-42, and 112-43.

\_\_\_\_ (ii) Alternate I [Reserved].

\_\_\_\_ (iii) Alternate II (DEC 2022) of 52.225-3.

\_\_\_\_ (iv) Alternate III (JAN 2021) of 52.225-3.

\_\_\_\_ (v) Alternate IV (OCT 2022) of 52.225-3.

\_\_\_\_ (51) 52.225-5, Trade Agreements (DEC 2022) 19 U.S.C. 2501, et seq., 19 U.S.C. 3301 note).

X (52) 52.225-13, Restrictions on Certain Foreign Purchases (FEB 2021) (E.O.'s, proclamations, and statutes administered by the Office of Foreign Assets Control of the Department of the Treasury).

\_\_\_\_ (53) 52.225-26, Contractors Performing Private Security Functions Outside the United States (OCT 2016) (Section 862, as amended, of the National Defense Authorization Act for Fiscal Year 2008; 10 U.S.C. Subtitle A, Part V, Subpart G Note).

\_\_\_\_ (54) 52.226-4, Notice of Disaster or Emergency Area Set-Aside (NOV 2007) (42 U.S.C. 5150

\_\_\_\_ (55) 52.226-5, Restrictions on Subcontracting Outside Disaster or Emergency Area (NOV 2007) (42 U.S.C. 5150).

\_\_\_\_ (56) 52.229-12, Tax on Certain Foreign Procurements (FEB 2021).

\_\_\_\_ (57) 52.232-29, Terms for Financing of Purchases of Commercial Products and Commercial Services (NOV 2021) (41 U.S.C. 4505, 10 U.S.C. 3805).

\_\_\_\_ (58) 52.232-30, Installment Payments for Commercial Products and Commercial Services (NOV 2021) (41 U.S.C. 4505, 10 U.S.C. 3805).

X (59) 52.232-33, Payment by Electronic Funds Transfer—System for Award Management (OCT 2018) (31 U.S.C. 3332).

\_\_\_\_ (60) 52.232-34, Payment by Electronic Funds Transfer—Other than System for Award Management (JUL 2013) (31 U.S.C. 3332).

\_\_\_\_ (61) 52.232-36, Payment by Third Party (MAY 2014) (31 U.S.C. 3332).

\_\_\_\_ (62) 52.239-1, Privacy or Security Safeguards (AUG 1996) (5 U.S.C. 552a).

\_\_\_\_ (63) 52.242-5, Payments to Small Business Subcontractors (JAN 2017)(15 U.S.C. 637(d)(13)).

\_\_\_\_ (64)(i) 52.247-64, Preference for Privately Owned U.S.-Flag Commercial Vessels (NOV 2021) (46 U.S.C. 55305 and 10 U.S.C. 2631).

\_\_\_\_ (ii) Alternate I (APR 2003) of 52.247-64.

\_\_\_\_ (iii) Alternate II (NOV 2021) of 52.247-64.

(c) The Contractor shall comply with the FAR clauses in this paragraph (c), applicable to commercial services, that the Contracting Officer has indicated as being incorporated in this contract by reference to implement provisions of law or Executive orders applicable to acquisitions of commercial products and commercial services: [Contracting Officer check as appropriate.]

\_\_\_\_ (1) 52.222-41, Service Contract Labor Standards (AUG 2018) (41 U.S.C. chapter 67).

\_\_\_\_ (2) 52.222-42, Statement of Equivalent Rates for Federal Hires (MAY 2014) (29 U.S.C. 206 and 41 U.S.C. chapter 67).

\_\_\_\_ (3) 52.222-43, Fair Labor Standards Act and Service Contract Labor Standards--Price Adjustment (Multiple Year and Option Contracts) (AUG 2018) (29 U.S.C. 206 and 41 U.S.C. chapter 67).

\_\_\_\_ (4) 52.222-44, Fair Labor Standards Act and Service Contract Labor Standards--Price Adjustment (MAY 2014) (29 U.S.C. 206 and 41 U.S.C. chapter 67).

\_\_\_\_ (5) 52.222-51, Exemption from Application of the Service Contract Labor Standards to Contracts for Maintenance, Calibration, or Repair of Certain Equipment--Requirements (MAY 2014) (41 U.S.C. chapter 67).

\_\_\_\_ (6) 52.222-53, Exemption from Application of the Service Contract Labor Standards to Contracts for Certain Services--Requirements (MAY 2014) (41 U.S.C. chapter 67).

\_\_\_\_ (7) 52.222-55, Minimum Wages for Contractor Workers Under Executive Order 14026 (JAN 2022) (E.O. 13658).

\_\_\_\_ (8) 52.222-62, Paid Sick Leave Under Executive Order 13706 (JAN 2022) (E.O. 13706).

\_\_\_\_ (9) 52.226-6, Promoting Excess Food Donation to Nonprofit Organizations (JUN 2020) (42 U.S.C. 1792).

(d) Comptroller General Examination of Record. The Contractor shall comply with the provisions of this paragraph (d) if this contract was awarded using other than sealed bid, is in excess of the simplified acquisition threshold, as defined in FAR 2.101, on the date of award of this contract, and does not contain the clause at 52.215-2, Audit and Records--Negotiation.

(1) The Comptroller General of the United States, or an authorized representative of the Comptroller General, shall have access to and right to examine any of the Contractor's directly pertinent records involving transactions related to this contract.

(2) The Contractor shall make available at its offices at all reasonable times the records, materials, and other evidence for examination, audit, or reproduction, until 3 years after final payment under this contract or for any shorter period specified in FAR Subpart 4.7, Contractor Records Retention, of the other clauses of this contract. If this contract is completely or partially terminated, the records relating to the work terminated shall be made available for 3 years after any resulting final termination settlement. Records relating to appeals under the disputes clause or to litigation or the settlement of claims arising under or relating to this contract shall be made available until such appeals, litigation, or claims are finally resolved.

(3) As used in this clause, records include books, documents, accounting procedures and practices, and other data, regardless of type and regardless of form. This does not require the Contractor to create or maintain any record that the Contractor does not maintain in the ordinary course of business or pursuant to a provision of law.

(e) (1) Notwithstanding the requirements of the clauses in paragraphs (a), (b), (c), and (d) of this clause, the Contractor is not required to flow down any FAR clause, other than those in this paragraph (e)(1) in a subcontract for commercial products or commercial services. Unless otherwise indicated below, the extent of the flow down shall be as required by the clause—

(i) 52.203-13, Contractor Code of Business Ethics and Conduct (NOV 2021) (41 U.S.C. 3509).

(ii) 52.203-19, Prohibition on Requiring Certain Internal Confidentiality Agreements or Statements (JAN 2017) (section 743 of Division E, Title VII, of the Consolidated and Further Continuing Appropriations Act, 2015 (Pub. L. 113-235) and its successor provisions in subsequent appropriations acts (and as extended in continuing resolutions)).

(iii) 52.204-23, Prohibition on Contracting for Hardware, Software, and Services Developed or Provided by Kaspersky Lab and Other Covered Entities (NOV 2021) (Section 1634 of Pub. L. 115-91).

(iv) 52.204-25, Prohibition on Contracting for Certain Telecommunications and Video Surveillance Services or Equipment. (NOV 2021) (Section 889(a)(1)(A) of Pub. L. 115-232).

(v) 52.204-27, Prohibition on a ByteDance Covered Application (JUN 2023) (Section 102 of Division R of Pub. L. 117-328).

(vi) 52.219-8, Utilization of Small Business Concerns (OCT 2022) (15 U.S.C. 637(d)(2) and (3)), in all subcontracts that offer further subcontracting opportunities. If the subcontract (except subcontracts to small business concerns) exceeds the applicable threshold specified in FAR 19.702(a) on the date of subcontract award, the subcontractor must include 52.219-8 in lower tier subcontracts that offer subcontracting opportunities.

(vii) 52.222-21, Prohibition of Segregated Facilities (APR 2015).

(viii) 52.222-26, Equal Opportunity (SEP 2016) (E.O. 11246).

(ix) 52.222-35, Equal Opportunity for Veterans (JUN 2020) (38 U.S.C. 4212).

(x) 52.222-36, Equal Opportunity for Workers with Disabilities (JUN 2020) (29 U.S.C. 793).

(xi) 52.222-37, Employment Reports on Veterans (JUN 2020) (38 U.S.C. 4212).

(xii) 52.222-40, Notification of Employee Rights Under the National Labor Relations Act (DEC 2010) (E.O. 13496). Flow down required in accordance with paragraph (f) of FAR clause 52.222-40.

(xiii) 52.222-41, Service Contract Labor Standards (AUG 2018), (41 U.S.C. chapter 67).

(xiv) X (A) 52.222-50, Combating Trafficking in Persons (NOV 2021) (22 U.S.C. chapter 78 and E.O. 13627).

\_\_\_\_\_ (B) Alternate I (MAR 2, 2015) of 52.222-50 (22 U.S.C. chapter 78 and E.O. 13627).

(xv) 52.222-51, Exemption from Application of the Service Contract Labor Standards to Contracts for Maintenance, Calibration, or Repair of Certain Equipment--Requirements (MAY 2014) (41 U.S.C. chapter 67.)

(xvi) 52.222-53, Exemption from Application of the Service Contract Labor Standards to Contracts for Certain Services--Requirements (MAY 2014) (41 U.S.C. chapter 67)

(xvii) 52.222-54, Employment Eligibility Verification (MAY 2022) (E. O. 12989).

(xviii) 52.222-55, Minimum Wages for Contractor Workers Under Executive Order 14026 (JAN 2022) (E.O. 13658).

(xix) [52.222-62](#), Paid Sick Leave Under Executive Order 13706 (JAN 2022) (E.O. 13706).

(xx) (A) [52.224-3](#), Privacy Training (JAN 2017) ([5 U.S.C. 552a](#)).

(B) Alternate I (JAN 2017) of [52.224-3](#).

(xxi) 52.225-26, Contractors Performing Private Security Functions Outside the United States (OCT 2016) (Section 862, as amended, of the National Defense Authorization Act for Fiscal Year 2008; 10 U.S.C. Subtitle A, Part V, Subpart G Note).

(xxii) 52.226-6, Promoting Excess Food Donation to Nonprofit Organizations. (JUN 2020) (42 U.S.C. 1792). Flow down required in accordance with paragraph (e) of FAR clause 52.226-6.

(xxiii) 52.232-40, Providing Accelerated Payments to Small Business Subcontractors (MAR 2023) (31 U.S.C. 3903 and 10 U.S.C. 3801). Flow down required in accordance with paragraph (c) of 52.232-40.

(xxiv) 52.247-64, Preference for Privately-Owned U.S. Flag Commercial Vessels (NOV 2021) (46 U.S.C. 55305 and 10 U.S.C. 2631). Flow down required in accordance with paragraph (d) of FAR clause 52.247-64.

(2) While not required, the Contractor may include in its subcontracts for commercial products and commercial services a minimal number of additional clauses necessary to satisfy its contractual obligations.

(End of clause)

## 52.252-1 SOLICITATION PROVISIONS INCORPORATED BY REFERENCE (FEB 1998)

This solicitation incorporates one or more solicitation provisions by reference, with the same force and effect as if they were given in full text. Upon request, the Contracting Officer will make their full text available. The offeror is cautioned that the listed provisions may include blocks that must be completed by the offeror and submitted with its quotation or offer. In lieu of submitting the full text of those provisions, the offeror may identify the provision by paragraph identifier and provide the appropriate information with its quotation or offer. Also, the full text of a solicitation provision may be accessed electronically at this/these address(es):

<https://www.acquisition.gov/>

(End of provision)

## 52.252-2 CLAUSES INCORPORATED BY REFERENCE (FEB 1998)

This contract incorporates one or more clauses by reference, with the same force and effect as if they were given in full text. Upon request, the Contracting Officer will make their full text available. Also, the full text of a clause may be accessed electronically at this/these address(es):

<https://www.acquisition.gov/>

(End of clause)

## 252.204-7016 COVERED DEFENSE TELECOMMUNICATIONS EQUIPMENT OR SERVICES -- REPRESENTATION (DEC 2019)

(a) Definitions. As used in this provision, covered defense telecommunications equipment or services has the meaning provided in the clause 252.204-7018, Prohibition on the Acquisition of Covered Defense Telecommunications Equipment or Services.

(b) Procedures. The Offeror shall review the list of excluded parties in the System for Award Management (SAM) (<https://www.sam.gov>) for entities excluded from receiving federal awards for “covered defense telecommunications equipment or services”.

(c) Representation. The Offeror represents that it [ ] does, [ ] does not provide covered defense telecommunications equipment or services as a part of its offered products or services to the Government in the performance of any contract, subcontract, or other contractual instrument.

(End of provision)

## 252.204-7017 PROHIBITION ON THE ACQUISITION OF COVERED DEFENSE TELECOMMUNICATIONS EQUIPMENT OR SERVICES--REPRESENTATION (MAY 2021)

The Offeror is not required to complete the representation in this provision if the Offeror has represented in the provision at 252.204-7016, Covered Defense Telecommunications Equipment or Services--Representation, that it “does not provide covered defense telecommunications equipment or services as a part of its offered products or services to the Government in the performance of any contract, subcontract, or other contractual instrument.”

(a) Definitions. Covered defense telecommunications equipment or services, covered mission, critical technology, and substantial or essential component, as used in this provision, have the meanings given in the 252.204-7018 clause, Prohibition on the Acquisition of Covered Defense Telecommunications Equipment or Services, of this solicitation.

(b) Prohibition. Section 1656 of the National Defense Authorization Act for Fiscal Year 2018 (Pub. L. 115-91) prohibits agencies from procuring or obtaining, or extending or renewing a contract to procure or obtain, any equipment, system, or service to carry out covered missions that uses covered defense telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as part

of any system.

(c) Procedures. The Offeror shall review the list of excluded parties in the System for Award Management (SAM) at <https://www.sam.gov> for entities that are excluded when providing any equipment, system, or service to carry out covered missions that uses covered defense telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as part of any system, unless a waiver is granted.

(d) Representation. If in its annual representations and certifications in SAM the Offeror has represented in paragraph (c) of the provision at 252.204-7016, Covered Defense Telecommunications Equipment or Services-- Representation, that it “does” provide covered defense telecommunications equipment or services as a part of its offered products or services to the Government in the performance of any contract, subcontract, or other contractual instrument, then the Offeror shall complete the following additional representation:

The Offeror represents that it [ ] will [ ] will not provide covered defense telecommunications equipment or services as a part of its offered products or services to DoD in the performance of any award resulting from this solicitation.

(e) Disclosures. If the Offeror has represented in paragraph (d) of this provision that it “will provide covered defense telecommunications equipment or services,” the Offeror shall provide the following information as part of the offer:

(1) A description of all covered defense telecommunications equipment and services offered (include brand or manufacturer; product, such as model number, original equipment manufacturer (OEM) number, manufacturer part number, or wholesaler number; and item description, as applicable).

(2) An explanation of the proposed use of covered defense telecommunications equipment and services and any factors relevant to determining if such use would be permissible under the prohibition referenced in paragraph (b) of this provision.

(3) For services, the entity providing the covered defense telecommunications services (include entity name, unique entity identifier, and Commercial and Government Entity (CAGE) code, if known).

(4) For equipment, the entity that produced or provided the covered defense telecommunications equipment (include entity name, unique entity identifier, CAGE code, and whether the entity was the OEM or a distributor, if known).

(End of provision)

## 252.211-7003 ITEM UNIQUE IDENTIFICATION AND VALUATION (JAN 2023)

(a) Definitions. As used in this clause-

Automatic identification device means a device, such as a reader or interrogator, used to retrieve data encoded on machine-readable media.

Concatenated unique item identifier means--

(1) For items that are serialized within the enterprise identifier, the linking together of the unique identifier data elements in order of the issuing agency code, enterprise identifier, and unique serial number within the enterprise identifier; or

(2) For items that are serialized within the original part, lot, or batch number, the linking together of the unique identifier data elements in order of the issuing agency code; enterprise identifier; original part, lot, or batch number; and serial number within the original part, lot, or batch number.

Data Matrix means a two-dimensional matrix symbology, which is made up of square or, in some cases, round modules arranged within a perimeter finder pattern and uses the Error Checking and Correction 200 (ECC200) specification found within International Standards Organization (ISO)/International Electrotechnical Commission (IEC) 16022.

Data qualifier means a specified character (or string of characters) that immediately precedes a data field that defines the general category or intended use of the data that follows.

DoD recognized unique identification equivalent means a unique identification method that is in commercial use and has been recognized by DoD. All DoD recognized unique identification equivalents are listed at <https://www.acq.osd.mil/asda/dpc/ce/ds/unique-id.html>.

DoD item unique identification means a system of marking items delivered to DoD with unique item identifiers that have machine-readable data elements to distinguish an item from all other like and unlike items. For items that are serialized within the enterprise identifier, the unique item identifier shall include the data elements of the enterprise identifier and a unique serial number. For items that are serialized within the part, lot, or batch number within the enterprise identifier, the unique item identifier shall include the data elements of the enterprise identifier; the original part, lot, or batch number; and the serial number.

Enterprise means the entity (e.g., a manufacturer or vendor) responsible for assigning unique item identifiers to items.

Enterprise identifier means a code that is uniquely assigned to an enterprise by an issuing agency.

Government's unit acquisition cost means--

- (1) For fixed-price type line, subline, or exhibit line items, the unit price identified in the contract at the time of delivery;
- (2) For cost-type or undefinitized line, subline, or exhibit line items, the Contractor's estimated fully burdened unit cost to the Government at the time of delivery; and
- (3) For items produced under a time-and-materials contract, the Contractor's estimated fully burdened unit cost to the Government at the time of delivery.

Issuing agency means an organization responsible for assigning a globally unique identifier to an enterprise, as indicated in the Register of Issuing Agency Codes for ISO/IEC 15459, located at [http://www.aimglobal.org/?Reg\\_Authority15459](http://www.aimglobal.org/?Reg_Authority15459).

Issuing agency code means a code that designates the registration (or controlling) authority for the enterprise identifier.

Item means a single hardware article or a single unit formed by a grouping of subassemblies, components, or constituent parts.

Lot or batch number means an identifying number assigned by the enterprise to a designated group of items, usually referred to as either a lot or a batch, all of which were manufactured under identical conditions.

Machine-readable means an automatic identification technology media, such as bar codes, contact memory buttons, radio frequency identification, or optical memory cards.

Original part number means a combination of numbers or letters assigned by the enterprise at item creation to a class of items with the same form, fit, function, and interface.

Parent item means the item assembly, intermediate component, or subassembly that has an embedded item with a unique item identifier or DoD recognized unique identification equivalent.

Serial number within the enterprise identifier means a combination of numbers, letters, or symbols assigned by the enterprise to an item that provides for the differentiation of that item from any other like and unlike item and is never used again within the enterprise.

Serial number within the part, lot, or batch number means a combination of numbers or letters assigned by the enterprise to an item that provides for the differentiation of that item from any other like item within a part, lot, or batch number assignment.

Serialization within the enterprise identifier means each item produced is assigned a serial number that is unique among all the tangible items produced by the enterprise and is never used again. The enterprise is responsible for ensuring unique serialization within the enterprise identifier.

Serialization within the part, lot, or batch number means each item of a particular part, lot, or batch number is assigned a unique serial number within that part, lot, or batch number assignment. The enterprise is responsible for ensuring unique serialization within the part, lot, or batch number within the enterprise identifier.

Type designation means a combination of letters and numerals assigned by the Government to a major end item, assembly or subassembly, as appropriate, to provide a convenient means of differentiating between items having the same basic name and to indicate modifications and changes thereto.

Unique item identifier means a set of data elements marked on items that is globally unique and unambiguous. The term includes a concatenated unique item identifier or a DoD recognized unique identification equivalent.

Unique item identifier type means a designator to indicate which method of uniquely identifying a part has been used. The current list of accepted unique item identifier types is maintained at <https://www.acq.osd.mil/asda/dpc/cc/ds/unique-id.html>.

(b) The Contractor shall deliver all items under a contract line, subline, or exhibit line item.

(c) Unique item identifier. (1) The Contractor shall provide a unique item identifier for the following:

(i) Delivered items for which the Government's unit acquisition cost is \$5,000 or more, except for the following line items:

-----	
Contract line, subline, or exhibit	
line item No.	Item description
-----	-----
.....	
-----	

(ii) Items for which the Government's unit acquisition cost is less than \$5,000 that are identified in the Schedule or the following table:

-----	
Contract line, subline, or exhibit	
line item No.	Item description
-----	-----
.....	
-----	

(If items are identified in the Schedule, insert "See Schedule" in this table.)

(iii) Subassemblies, components, and parts embedded within delivered items, items with warranty requirements, DoD serially managed reparables and DoD serially managed nonreparables as specified in Attachment Number ----.

(iv) Any item of special tooling or special test equipment as defined in FAR 2.101 that have been designated for preservation and storage for a Major Defense Acquisition Program as specified in Attachment Number ----.

(v) Any item not included in paragraphs (c)(1)(i), (ii), (iii), or

(iv) of this clause for which the contractor creates and marks a unique item identifier for traceability.

(2) The unique item identifier assignment and its component data element combination shall not be duplicated on any other item marked or registered in the DoD Item Unique Identification Registry by the contractor.

(3) The unique item identifier component data elements shall be marked on an item using two dimensional data matrix symbology that complies with ISO/IEC International Standard 16022, Information technology--International symbology specification--Data matrix; ECC200 data matrix specification.

(4) Data syntax and semantics of unique item identifiers. The Contractor shall ensure that--

(i) The data elements (except issuing agency code) of the unique item identifier are encoded within the data matrix symbol that is marked on the item using one of the following three types of data qualifiers, as determined by the Contractor:

(A) Application Identifiers (AIs) (Format Indicator 05 of ISO/IEC International Standard 15434), in accordance with ISO/IEC International Standard 15418, Information Technology--EAN/UCC Application Identifiers and Fact Data Identifiers and Maintenance and ANSI MH 10.8.2 Data Identifier and Application Identifier Standard.

(B) Data Identifiers (DIs) (Format Indicator 06 of ISO/IEC International Standard 15434), in accordance with ISO/IEC International Standard 15418, Information Technology--EAN/UCC Application Identifiers and Fact Data Identifiers and Maintenance and ANSI MH 10.8.2 Data Identifier and Application Identifier Standard.

(C) Text Element Identifiers (TEIs) (Format Indicator 12 of ISO/IEC International Standard 15434), in accordance with the Air Transport Association Common Support Data Dictionary; and

(ii) The encoded data elements of the unique item identifier conform to the transfer structure, syntax, and coding of messages and data formats specified for Format Indicators 05, 06, and 12 in ISO/IEC International Standard 15434, Information Technology-Transfer Syntax for High Capacity Automatic Data Capture Media.

(5) Unique item identifier.

(i) The Contractor shall--

(A) Determine whether to--

(1) Serialize within the enterprise identifier;

(2) Serialize within the part, lot, or batch number; or

(3) Use a DoD recognized unique identification equivalent (e.g. Vehicle Identification Number); and

(B) Place the data elements of the unique item identifier (enterprise identifier; serial number; DoD recognized unique identification equivalent; and for serialization within the part, lot, or batch number only: Original part, lot, or

batch number) on items requiring marking by paragraph (c)(1) of this clause, based on the criteria provided in MIL-STD-130, Identification Marking of U.S. Military Property, latest version;

(C) Label shipments, storage containers and packages that contain uniquely identified items in accordance with the requirements of MIL-STD-129, Military Marking for Shipment and Storage, latest version; and

(D) Verify that the marks on items and labels on shipments, storage containers, and packages are machine readable and conform to the applicable standards. The contractor shall use an automatic identification technology device for this verification that has been programmed to the requirements of Appendix A, MIL-STD-130, latest version.

(ii) The issuing agency code--

(A) Shall not be placed on the item; and

(B) Shall be derived from the data qualifier for the enterprise identifier.

(d) For each item that requires item unique identification under paragraph (c)(1)(i), (ii), or (iv) of this clause or when item unique identification is provided under paragraph (c)(1)(v), in addition to the information provided as part of the Material Inspection and Receiving Report specified elsewhere in this contract, the Contractor shall report at the time of delivery, as part of the Material Inspection and Receiving Report, the following information:

(1) Unique item identifier.

(2) Unique item identifier type.

(3) Issuing agency code (if concatenated unique item identifier is used).

(4) Enterprise identifier (if concatenated unique item identifier is used).

(5) Original part number (if there is serialization within the original part number).

(6) Lot or batch number (if there is serialization within the lot or batch number).

(7) Current part number (optional and only if not the same as the original part number).

(8) Current part number effective date (optional and only if current part number is used).

(9) Serial number (if concatenated unique item identifier is used).

(10) Government's unit acquisition cost.

(11) Unit of measure.

(12) Type designation of the item as specified in the contract schedule, if any.

(13) Whether the item is an item of Special Tooling or Special Test Equipment.

(14) Whether the item is covered by a warranty.

(e) For embedded subassemblies, components, and parts that require DoD unique item identification under paragraph (c)(1)(iii) of this clause, the Contractor shall report as part of, or associated with, the Material Inspection and Receiving Report specified elsewhere in this contract, the following information:

(1) Unique item identifier of the parent item under paragraph (c)(1) of this clause that contains the embedded subassembly, component, or part.

- (2) Unique item identifier of the embedded subassembly, component, or part.
- (3) Unique item identifier type.\*\*
- (4) Issuing agency code (if concatenated unique item identifier is used).\*\*
- (5) Enterprise identifier (if concatenated unique item identifier is used).\*\*
- (6) Original part number (if there is serialization within the original part number).\*\*
- (7) Lot or batch number (if there is serialization within the lot or batch number).\*\*
- (8) Current part number (optional and only if not the same as the original part number).\*\*
- (9) Current part number effective date (optional and only if current part number is used).\*\*
- (10) Serial number (if concatenated unique item identifier is used).\*\*
- (11) Description.

\*\* Once per item.

(f) The Contractor shall submit the information required by paragraphs (d) and (e) of this clause as follows:

(1) End items shall be reported using the receiving report capability in Wide Area WorkFlow (WAWF) in accordance with the clause at 252.232-7003. If WAWF is not required by this contract, and the contractor is not using WAWF, follow the procedures at <http://dodprocurementtoolbox.com/site/uidregistry/>.

(2) Embedded items shall be reported by one of the following methods--

(i) Use of the embedded items capability in WAWF;

(ii) Direct data submission to the IUID Registry following the procedures and formats at <http://dodprocurementtoolbox.com/site/uidregistry/>; or

(iii) Via WAWF as a deliverable attachment for exhibit line item number (fill in) ----, Unique Item Identifier Report for Embedded Items, Contract Data Requirements List, DD Form 1423.

(g) Subcontracts. If the Contractor acquires by subcontract any item(s) for which item unique identification is required in accordance with paragraph (c)(1) of this clause, the Contractor shall include this clause, including this paragraph (g), in the applicable subcontract(s), including subcontracts for commercial products or commercial services.

(End of clause)

252.225-7000 BUY AMERICAN--BALANCE OF PAYMENTS PROGRAM CERTIFICATE--BASIC (NOV 2014)

(a) Definitions. Commercially available off-the-shelf (COTS) item, component, domestic end product, foreign end product, qualifying country, qualifying country end product, South Caucasus/Central and South Asian (SC/CASA) state, South Caucasus/Central and South Asian (SC/CASA) state end product, and United States, as used

in this provision, have the meanings given in the Buy American and Balance of Payments Program--Basic clause of this solicitation.

(b) Evaluation. The Government--

(1) Will evaluate offers in accordance with the policies and procedures of Part 225 of the Defense Federal Acquisition Regulation Supplement; and

(2) Will evaluate offers of qualifying country end products without regard to the restrictions of the Buy American statute or the Balance of Payments Program.

(c) Certifications and identification of country of origin.

(1) For all line items subject to the Buy American and Balance of Payments Program-- Basic clause of this solicitation, the offeror certifies that--

(i) Each end product, except those listed in paragraph (c)(2) or (3) of this provision, is a domestic end product; and

(ii) For end products other than COTS items, components of unknown origin are considered to have been mined, produced, or manufactured outside the United States or a qualifying country.

(2) The offeror certifies that the following end products are qualifying country end products:

\_\_\_\_ (Line Item Number Country of Origin)

\_\_\_\_ (Country of Origin)

(3) The following end products are other foreign end products, including end products manufactured in the United States that do not qualify as domestic end products, i.e., an end product that is not a COTS item and does not meet the component test in paragraph (ii) of the definition of "domestic end product":

(Line Item Number) \_\_\_\_

(Country of Origin (If known)) \_\_\_\_

(End of provision)

## 252.232-7006 WIDE AREA WORKFLOW PAYMENT INSTRUCTIONS (JAN 2023)

(a) Definitions. As used in this clause—

“Department of Defense Activity Address Code (DoDAAC)” is a six position code that uniquely identifies a unit, activity, or organization.

“Document type” means the type of payment request or receiving report available for creation in Wide Area WorkFlow (WAWF).

“Local processing office (LPO)” is the office responsible for payment certification when payment certification is done external to the entitlement system.

“Payment request” and “receiving report” are defined in the clause at 252.232-7003, Electronic Submission of Payment Requests and Receiving Reports.

(b) Electronic invoicing. The WAWF system provides the method to electronically process vendor payment requests and receiving reports, as authorized by Defense Federal Acquisition Regulation Supplement (DFARS) 252.232-7003, Electronic Submission of Payment Requests and Receiving Reports.

(c) WAWF access. To access WAWF, the Contractor shall—

(1) Have a designated electronic business point of contact in the System for Award Management at <https://www.sam.gov>; and

(2) Be registered to use WAWF at <https://wawf.eb.mil/> following the step-by-step procedures for self-registration available at this web site.

(d) WAWF training. The Contractor should follow the training instructions of the WAWF Web-Based Training Course and use the Practice Training Site before submitting payment requests through WAWF. Both can be accessed by selecting the “Web Based Training” link on the WAWF home page at <https://wawf.eb.mil/>.

(e) WAWF methods of document submission. Document submissions may be via web entry, Electronic Data Interchange, or File Transfer Protocol.

(f) WAWF payment instructions. The Contractor shall use the following information when submitting payment requests and receiving reports in WAWF for this contract or task or delivery order:

(1) Document type. The Contractor shall submit payment requests using the following document type(s):

(i) For cost-type line items, including labor-hour or time-and-materials, submit a cost voucher.

(ii) For fixed price line items—

(A) That require shipment of a deliverable, submit the invoice and receiving report specified by the Contracting Officer.

## **INVOICE AND RECEIVING REPORT (COMBO) INSPECT AT: DESTINATION / ACCEPT AT: DESTINATION**

(B) For services that do not require shipment of a deliverable, submit either the Invoice 2in1, which meets the requirements for the invoice and receiving report, or the applicable invoice and receiving report, as specified by the Contracting Officer.

### **Invoice 2in1**

(iii) For customary progress payments based on costs incurred, submit a progress payment request.

(iv) For performance based payments, submit a performance based payment request.

(v) For commercial financing, submit a commercial financing request.

(2) Fast Pay requests are only permitted when Federal Acquisition Regulation (FAR) 52.213-1 is included in the contract.

[Note: The Contractor may use a WAWF “combo” document type to create some combinations of invoice and receiving report in one step.]

(3) Document routing. The Contractor shall use the information in the Routing Data Table below only to fill in applicable fields in WAWF when creating payment requests and receiving reports in the system.

Routing Data Table\*

<i>Field Name in WAWF</i>	<i>Data to be entered in WAWF</i>
Pay Official DoDAAC	HQ0303
Issue By DoDAAC	W912NW
Admin DoDAAC**	W912NW
Inspect By DoDAAC	W45N7V
Ship To Code	W45N7V
Ship From Code	N/A
Mark For Code	N/A
Service Approver (DoDAAC)	N/A
Service Acceptor (DoDAAC)	N/A
Accept at Other DoDAAC	W45N7V
LPO DoDAAC	N/A
DCAA Auditor DoDAAC	N/A
Other DoDAAC(s)	N/A

(4) Payment request. The Contractor shall ensure a payment request includes documentation appropriate to the type of payment request in accordance with the payment clause, contract financing clause, or Federal Acquisition Regulation 52.216-7, Allowable Cost and Payment, as applicable.

(5) Receiving report. The Contractor shall ensure a receiving report meets the requirements of DFARS Appendix F.

(g) WAWF point of contact.

(1) The Contractor may obtain clarification regarding invoicing in WAWF from the following contracting activity's WAWF point of contact.

TBD AT TIME OF AWARD.

Harold "Jay" Russel Jr. - harold.w.russell.civ@army.mil

(2) Contact the WAWF helpdesk at 866-618-5988, if assistance is needed.

(End of clause)

## REQUIREMENTS

1. General

1.1. Objective: The Contractor shall manufacture, deliver, and install a turnkey Non-Destructive Testing (NDT) Magnetic Particle Inspection (MPI) System.

1.2. Corpus Christi Army Depot (CCAD) Mission: CCAD performs overhaul, repair, modification, retrofit, and modernization of aircraft systems and other systems as assigned; maintains a mobilization and training base to provide capability for mission support during any contingency; provides maintenance support services for special projects as assigned; exercises command control over assigned activities; and provides on-site technical assistance in the inspection, maintenance, and repair of customer aircraft, engines, and components.

1.3. Background: CCAD is currently having Building 1700.3 constructed via a military construction/Army authority project. This building is being built adjacent to Building 1700.2, which currently houses shops to assemble and test transmissions for various aircraft. Building 1700.3 will contain shops that directly support activities in Building 1700 such as: bearing shop, machine and grinding shops, workstation requirements kitting areas, non-destructive inspection shop, shot peen shop, paint prep and paint shop.

1.4. Completion Date: The Contractor shall deliver and install the MPI system is within thirty-six (36) months from contract award.

1.5. Occupancy Date: The targeted occupancy date is anticipated by the end of 2023. This date represents the day that non- construction personnel, to include Government and Contractor personnel, can enter the building and begin work related activities. CCAD does not have any control or authority on the occupancy date.

1.6. Building 1700.3 Utilities: CCAD anticipates that building utilities (air, water and electricity) will be provided when the building is released for occupancy. The event of extended power outages due to continued building construction efforts and upgrades, the Contractor shall be prepared to provide air and electricity to continue uninterrupted installation efforts. The Contractor shall not connect any external power source to building facilities infrastructure for distribution under any circumstance.

1.7. Operational Procedures:

1.7.1. Recognized Federal Holidays: The following is a list of federal holidays. The Contractor shall not deliver or conduct installation on these days or their federally recognized observance days unless required by the Technical Point of Contact (TPOC) or the Contracting Officer (KO).

New Year's Day	Martin Luther King Jr's Birthday
President's Day	Memorial Day
Juneteenth	Independence Day
Labor Day	Columbus Day
Veteran's Day	Thanksgiving Day
Christmas Day	

1.7.2. CCAD Closure: CCAD may schedule a shutdown period of approximately 40 working hours between Christmas Day and New Year's Day holiday. CCAD may schedule a shutdown period at other times. The Contractor shall comply with administrative closing procedures for CCAD. Announcements of closures will be made through the KO and TPOC.

1.7.3. CCAD Core Hours: Core hours of operation at CCAD are Monday through Thursday from 0600 to 1600, and every Friday 0600 to 1500, except on United States holidays or when the Government facility/installation is closed due to local or national emergencies, administrative closings, or similar Government directed facility/installation closings.

1.7.4. Non-Personnel Services Statement: Contractor employees performing under this contract shall be controlled, directed, and supervised at all times by management personnel of the Contractor. Contractor employees shall perform their duties independent of, and without the supervision of, any Government official.

1.7.5. Location of Delivery and Installation: All items shall be delivered and install at Building 1700.3 on Naval Air Station Corpus Christi (NASCC). Corpus Christi, TX is located by the Gulf of Mexico in south Texas, approximately 210 miles southwest of Houston, 150 miles south of San Antonio, and 150 miles north of Mexico. CCAD is a 154-acre industrial complex located within the confines NASCC.

1.7.6. Trash And Debris Removal: The Contractor shall keep the work area free of waste materials and rubbish accumulations at all times. The Contractor shall leave the work area and premises in a clean, neat and organized condition and provide a dumpster for all metallic materials, shipping containers, or other materials generated during the equipment relocation and installation phase. The Contractor shall place dumpsters in an area designated by the Government.

1.7.7. Contractor Provided Equipment Requirements: The Contractor shall use only propane, electric, hydraulic or pneumatic equipment inside Government buildings. Gasoline driven equipment is not permitted inside any Government building under any circumstance. All forklifts shall have an on-board portable fire extinguisher. The Contractor shall be required to obtain all cutting and welding permits required by the NASCC Fire Protection Inspector: 361-961-3491/3492. The Contractor shall notify the Navy Fire Department to obtain necessary permits for each working day. If gasoline generators are required, the Contractor shall place them in an area designated by the Government.

1.7.8. On and Off-Loading Equipment: The Contractor shall be responsible for offloading all equipment and tools in Building 1700.3. The Contractor shall be responsible for on and off loading of all tools and equipment required for new equipment machines from CCAD sites to DCRF.

1.7.8.1. The Contractor shall be responsible for preservation, packing, shipping, un-packing, on-site placement at CCAD and storage in accordance with the manufacturer's commercial practices. The Contractor shall provide an on-site, fully authorized representative for all receipt of goods. The Government will not provide storage for shipped equipment and materials. The Contractor shall be responsible for the storage and handling of equipment and materials.

1.7.9. Travel Expenses: The Contractor shall be responsible for all travel expenses associated with this requirement.

1.7.10. Standards and Procedures: Applicable building, safety, construction, Federal and process standards and procedures are listed in Appendix C: Standards and Regulations.

1.7.10.1.Approvals: Government approvals for any product, design, specification or document does not negate the Contractor's ultimate responsibility for meeting standards, codes and regulatory agency requirements.

1.7.10.2.Standard by Reference: When a reference in this document is made to an industry specification, a manufacture, trade or trade association, an industry, or other generally recognized source, such are hereby made a part of the specification and shall have the same force and effect as though referenced in this document.

1.7.10.3.Competing Regulations: In the event of competing regulations and requirements for this installation, the strictest shall be enforced.

## 2. Equipment Specifications

2.1. Non-Destructive Inspection (NDI) Area: The Contractor shall provide and install equipment as stated in Table 1: NDI Area New Equipment List in accordance with MPI industry standards. The Contractor shall provide verification that specialty equipment for MPI (such as booth lighting, MPI machines, curtain enclosures, LED UV

lamps) are rated for such applications. The Contractor shall provide such documentation in the product drawings and associated lists for the equipment.

Table 1: NDI Area New Equipment List

Item	Specification
Workbench stools	2.1.8.
Solvent booths	2.1.9.
Workbench, 36" x 96"	2.1.10.
Jib boom with air hoist	2.1.11.

2.1.1. Booth Curtain and Structures: The Contractor shall install curtain enclosure at locations indicated in section 3.2 Drawings. The Contractor shall determine the final size of the curtain enclosure based on the NDI equipment final locations and estimated sizes as indicated in section 3.2 Drawings. Each booth shell shall consist of an independent structure and an NDI curtain. Under no circumstances shall equipment inside the booth support any part of the NDI curtain or booth structure. The Contractor shall determine a suitable method of creating the structure required to support activities of the substation. The Contractor shall design the booth to be disassembled and installed quickly. The Contractor shall provide the design of the Booth Curtain and Structure in the product drawings and associated lists and provide disassembly instruction sets.

2.1.1.1. Booth Curtain Structures: The Contractor shall design the booth structures so that equipment located inside the booth can be easily removed without removing the structures. Curtain structures shall be easy to remove and not require rigging or lifting equipment (such as pallet jacks, forklifts, etc.). The design of the structure shall be self-supporting and not require any support from building columns and pillars. The Contractor shall minimize the use of solid walls and maximize curtain use. Maintenance areas of machines located within all booths shall be easily accessible and not require any removal of curtain structures to access.

2.1.1.2. Booth Inspection Lighting: The Contractor shall provide documentation that the lighting in each inspection area meets or exceeds the requirement stated in this document. The contractor shall provide results for each overhead high power light and overhead black light. The contractor shall provide results that verifies that the booth and cabinets do not allow more than 2 foot candles of outside light when booth and cabinet lights are off throughout the booth. The Contractor shall perform testing in accordance with Appendix C. The contractor shall provide the test method and results in the test plan of the MPI line.

2.1.1.3. Solid Overhead Roofs for Booths: The Contractor shall provide placards that indicate the roof is not a load bearing surface and not rated for human use. The Contractor shall permanently install the placards on all four sides of the booth for each booth. The location of each placard shall be easily visible from the floor and non-obstructed. All equipment fixed to the roof (such as lighting fixtures, ducting, fans, switches, etc.) shall be easy to reach and replace from the outside edges of the booth or from the inside of the booth.

2.1.2. Roller System: The process flow of the roller system w/ MPI substations are provided in the drawings section 3.2. The Contractor shall design all entry and exit points of the substations so that the process flow is maintained. The Contractor shall provide the necessary quantities of substations to complete the process flow of MPI production lines as indicated by the drawings in section 3.2.

2.1.3. Air Hoist, Trolley and Crane Systems: The Contractor shall provide proof load certificates for each crane system. The Contractor shall paint the load capacity of the crane system onto the trolley of the crane system. The label shall be legible from the floor.

2.1.4. Fire Protection: The Contractor shall install fire protection and emergency lighting for each of the stated substations in the NDI area:

- Each MPI booth in the MPI substation line

- Spot inspection booth

Design, installation, and testing shall be in accordance with section 3.27. Fire Protection Installation.

2.1.5. Substation and Booth Control Systems: If automated controllers, such as PLC's and HMI's, are required for controlling functions of the machine, Allen-Bradley's PLCs and HMI products is preferred, but equal or like products that meets the following qualifications listed below is acceptable:

- One (1) fully functional licensed copy of the editing software used for both the PLC and HMI programming.
- At least thirty-two (32) hours of OEM certified functional training for 2 (two) CCAD employees
- 3 (three) years of 24/7 OEM technical support.

The Contractor shall provide logic diagrams for all PLC's and control architecture diagrams for HMI's when the manuals are delivered. All logic diagrams shall have inputs and outputs clearly identified. The Contractor shall provide an overview of inputs and its relationships to outputs as part of the product drawings for each substation.

2.1.6. All components of the roller system w/ MPI substations shall be similar in color schemes.

2.1.7. Utility Distribution for the MPI Roller Systems and Substations: The Contractor shall design the utility distribution system to the substations to minimize the use of vertical unitstrut and maximize the use of areas underneath the roller system. Utility distribution to wet areas of the roller system and substations shall be designed in accordance with standards in Appendix C.

2.1.8. Workbench stools:

- Armless, task stool style
- Back width 16.5"
- Back height 12.5"
- Black
- Steel frame
- Typical seat width 18.5"
- Typical seat depth 17"
- Seat construction polyurethane
- Weight 33 LBS.
- Back tilt
- Capacity 350 LBS.
- With footrest
- 5 legged base
- Approximate seat height minimum 23"
- Approximate seat height maximum 30"
- No casters
- Similar to Biofit UUT2530
- Pneumatic adjustment

2.1.9. Solvent Booths

- Operating voltage: 115 VAC, 60 HZ, single phase
- Operating air pressure range: 90 PSI to 100 PSI
- Entire design and system shall be compatible MIL-PRF-680 Type II solvent and fumes
- Cabinet specifications:
  - Construction – 304 stainless steel
  - Internal working area – 48" wide x 48" deep x 40" high
  - Overall system size – 61" wide x 80" deep x 88" high
  - Lighting:

- Lighting must be from outside and above sealed cabinet and provide a minimum illumination of 100 foot-candles
  - Light panels shall be of heat treated glass
- Door – 40” wide x 40” high must contain a right handed swing.
- Cleaning nozzles: three individual quick disconnect cleaning nozzles shall be provided with the cleaning enclosure. Each nozzle shall have a ½ inch threaded orifice. One each of the following nozzle patterns shall be provided:
  - One straight flow nozzle
  - One right angle flow nozzle
  - One “V” pattern wide angle nozzle
- Air nozzle: a fingertip controlled air blow-off nozzle shall be provided inside the enclosure.
- Gloves: the front of the cabinet shall contain gloves and gauntlets for access to the work area. These gloves and gauntlets shall be manufactured from nitrile material.
- Ergonomics: Cleaning enclosure shall have adjustable legs that are capable of being adjusted 10 inches in height. The front side of the enclosure shall contain a window to view the work area. This window shall be 29-1/4”w x 16-1/4”h and shall be located at the operator’s eye level. A polypropylene turntable shall be mounted inside of the cabinet. This turntable shall be mounted on steel roller or ball bearings and be capable of rotating 360 degrees. This turntable will be 36 inches in diameter and capable of supporting a maximum workload of 750 pounds. The bearing must be mounted so that the turntable does not slide while handling the workpiece. The bearing used shall be compatible with cleaning solvent the machine will use.
- Pump system: The cleaning fluid transfer pump system shall be a closed loop system. It shall have an operational pressure not to exceed 12 PSI and a minimum flow rate of 32 gallons per minute. This pump shall not atomize the cleaning solution. Cleaning fluid transfer system piping shall consist of a minimum of 90% welded slip joint stainless steel. The pump system shall include a pressure gauge. This gauge shall be located so that the operator can monitor the system pressure from the operator’s station. Valves shall be provided in the fluid lines on each side of the pump for maintenance purposes. All system valves shall be stainless steel, hand or air operated ball valves.
- Controls: System on/off shall be controlled by a push button located at the operator’s station. A pilot light shall be provided to indicate when the system is turned on. This switch shall control all functions necessary to make the cleaner operational. A foot switch shall be provided with the cleaner. When depressed the foot switch shall initiate the cleaning process by supplying power to the cleaning fluid supply pump and the blower in the vapor recovery system. The foot switch shall become inoperable when the cabinet door, with a proximity switch, is opened. The foot switch shall be adjustable both vertically and horizontally for operator comfort. The cleaner shall be equipped with a timer that will discontinue the vapor recovery system and power to the lights when the machine remains inactive for five minutes.
- Vapor recovery: The vapor recovery module shall be air driven with suction air that passes through a top vent and then through the following 2” metal fiber filter, a chevron filter, another 2” metal fiber filter, 12” v-bank charcoal module, a 1” metal fiber filter, then a 6” v-bank charcoal module and finally through a polyester pad before being exhausted into the atmosphere. The previous statement describes the vapor recovery system currently used in existing solvent booths, the contractor may elect to provide an alternate, simpler filtration system that provides equal or better filtration. The cleaning fluid that is captured by this system shall be returned to the cleaning fluid reservoir when the cycle is complete and the system is inactive.
- Cleaning fluid holding tank: Holding tank shall be manufactured from stainless steel. It shall have a liquid sight glass and have a maximum capacity of 55 gallons. A removable, stainless steel large particle filter shall be located in the bottom of the holding tank. The cleaning fluid shall pass through this filter before being filtered by four resin bonded five micron filters housed in an external stainless steel housing. These filters shall be commercially available. The machine shall have a method to determine when to change the filter.
- Fiber filters, charcoal module, polyester pad and filter in housing shall be easily accessible with no tools required to access items.
- Fluorescent lights
- Illuminated selector switch

- 2 extra pairs of gauntlets
  - Contractor to provide extra filters for each type used on machine
  - Must not leak solvent through any part of the machine at any time, idle or running.
  - Leak proof door bottom drip rails with a path for excess cleaning fluid back to the holding tank and shall not drip material when opened
  - Shall be identical in function to solvent booths currently used in Dynamic Component Repair Facility (DCRF).
  - Operation, spare parts list, installation and preventative maintenance manuals shall be provided
- 2.1.10. Workbench, 36" x 96" shall contain the following core parts:
- 36" deep x 96" wide x 35 3/4" high table top
  - 2 each 120 VAC overhead lights, T8 bulbs or LED equivalent, cantilever overhead supports, approx. 48" above work surface
  - Butcher block wood top: 1 3/4" thick, 90 degree radius front edge, impact resistant, support a minimum of 3200 LBS.
  - 2 open legs with stringer: 3" wide, 5" inversed hat top (blue)
  - 1 rear stringer (blue)
  - 2 LCD monitor holders
  - 4 multipurpose uprights (blue)
  - 2 power outlet strips w/ 6 receptacles each minimum, w/ on/off switch
  - 2 channels with data knock outs (blue)
  - 4 tiltable shelves (blue)
  - 2 upright cross members (blue)
- 2.1.11. Jib Boom with Rolling Air Hoist
- Jib Boom
    - 360-degree rotation travel with adjustable stop
    - Working height: shall lift AH64 main housing from floor to 10 feet
    - At least 3x greater than air hoist capacity
    - Working span dependent on application and location. Jib boom spans throughout Dynamic Component Repair Facility (DCRF) range from 4' to 8'.
    - Base mounted, steel construction
  - Air hoist
    - 90 PSI rating
    - 500 pound capacity
    - Manual trolley: easy to push/pull on jib boom span, no binding
    - Control pendant to be level to operator
    - Hardened steel load chain with hook and latch 360 swivel end
      - 1-1/8" hook opening
      - Maximum chain length: hook shall touch the floor plus 1 foot
    - Disk brake for zero load drift
    - Lubrication free
    - Variable lowering and lifting speed and precise positioning by control pendant
    - Emergency stop button

2.2. MPI Area: The Contractor shall provide and install equipment as stated in Table 2: MPI Area New Equipment List in accordance with MPI industry standards. The Contractor shall provide verification that specialty equipment for MPI (such as booth lighting, MPI machines, curtain enclosures, LED UV lamps) are rated for such applications. The Contractor shall provide such documentation in the product drawings and associated lists for the equipment.

Table 2: MPI Area New Equipment List

Item	Specification
Workbench Stools	2.2.1.
Jib Boom with Rolling Air Hoist	2.2.2.
Worktable, 36" x 60"	2.2.3.
MPI Machine (Small)	2.2.4.
MPI Machine (Large)	2.2.5.
LED UV Lamp	2.2.6.
Scissor Lift	2.2.7.
Mini Computer Workstation	2.2.8.
Roller System w/ MPI Substations	2.2.9.
MPI Booth	2.2.10.

2.2.1. Workbench Stools

- Armless, task stool style
- Back width 16.5"
- Back height 12.5"
- Black
- Steel frame
- Typical seat width 18.5"
- Typical seat depth 17"
- Seat construction polyurethane
- Weight 33 LBS.
- Back tilt
- Capacity 350 LBS.
- With footrest
- 5 legged base
- Approximate seat height minimum 23"
- Approximate seat height maximum 30"
- No casters
- Similar to Biofit UUT2530
- Pneumatic adjustment

2.2.2. Jib Boom with Rolling Air Hoist

- Jib Boom
  - 360-degree rotation travel with adjustable stop
  - Working height: shall lift AH64 main housing from floor to 10 feet
  - At least 3x greater than air hoist capacity
  - Working span dependent on application and location. Jib boom spans throughout DCRF range from 4' to 8'.
  - Base mounted, steel construction
- Air hoist
  - 90 PSI rating
  - 500 pound capacity
  - Manual trolley: easy to push/pull on jib boom span, no binding
  - Control pendant to be level to operator
  - Hardened steel load chain with hook and latch 360 swivel end
    - 1-1/8" hook opening

- Maximum chain length: hook shall touch the floor plus 1 foot
- Disk brake for zero load drift
- Lubrication free
- Variable lowering and lifting speed and precise positioning by control pendant
- Emergency stop button

2.2.3. Worktable, 36'x60" shall contain the following core parts:

- 36" deep x 60" wide x 35 ¾" high table top
- Butcher block wood top: 1 ¾" thick, 90 degree radius edges (4 edges), impact resistant, support a minimum of 3200 LBS.
- 2 open legs with stringer: 3" wide, 5" inversed hat top (blue)
- 1 rear stringer (blue)

2.2.4. MPI Machine Small - Magnaflux D-2100 is preferred; however, any brand that has similar specifications will be acceptable.

- Identical to MPI machine (large) ( section 2.2.5) but does not include the following features:
  - Max clamping length: 54"
  - 25" large capacity clamp-shell coil with contact assembly
  - Magnetizing current capacity: 3 phase, full wave DC, 10000 amps and with 2500 amp AC current boost for increased inspection range

2.2.5. MPI Machine Large - Magnaflux D-2100L is preferred; however, any brand that has similar specifications will be acceptable

- Long part capacity, max clamping length to 102"
- 36" large capacity clamp-shell coil with oversized contact assembly
- Magnetizing current capacity: 3 phase, full wave DC, 10000 amps with 6000 amp AC current boost for increased inspection range
- 460 VAC, 90 PSI @ 5 CFM
- Rated for wet applications
- Two outputs that can be independently adjustable to set each magnetic field: circular or longitudinal
- More than 300 shots per hour
- Equipped with Allen Bradley PLC's
- 2.5% duty cycle
- Touch-screen operator interface
- Barcode scanner and advanced screen operating interface for document traceability and reporting
- Low-voltage output for operator safety
- Adjustable mag shot time from 0.5 to 2 seconds
- Automatic double-mag shot with 1 touch control
- Mag shot activating push bar with 1 touch control
- Large, easy-to-read digital ammeter confirming amperage sent through the part
- Current assurance indicator light confirms magnetizing current delivery
- Solid state circuitry
- Oversized contact assembly for headstock and tailstock
- Reinforced rail, 1,500 LBS. part capacity
- Dual-touch sensor for activating part clamping
- Unsupported part weight capacity of 300 LBS.

- Supported part weight capacity of 7000 LBS.
  - Stainless steel particle bath tank capacity of 55 gallons
  - Equipped with agitator system for keeping magnetic particle suspended
  - External pump system for particle bath agitation, circulation and application
  - Auto bath for automatic clamping, bathing, magnetizing, and unclamping of part under inspection and shall include all fluids required for operation
  - Tool steel test ring in accordance with AS5282. Certification required.
  - Include 2 double braided contact pads with v-blocks, 4.75" x 7.5"
  - Includes centrifuge tube for 14A particles, with aluminum stand
  - Includes foot-switch-activated, pneumatic headstock
  - Includes adjustable tail stock with ratcheting crank
  - Includes front and rear maple hardwood grills
  - Field indicator, 10 gauss, non-calibrated type
  - Includes pie field gauge
  - Provide 3-year manufacturing warranty on parts and labor
- 2.2.6. LED UV Lamp
- 100 – 240 VAC range, 1 amp, 50-60 HZ
  - 5K microwatt / CM<sup>2</sup> irradiance
  - 9 inch circular spot at 15" away from object
  - Excitation irradiated area: greater than 2K microwatt/CM<sup>2</sup>
  - Non-clouding lens
  - No circulation or cooling fans allowed
  - No lamp greater than 2 LBS.
  - Shall provide COC that verifies that the lamp can be used for MPI testing
  - No greater than 5 minute stabilization time
- 2.2.7. Scissor Lift
- Roller table top capacity: 770 LBS.
  - Roller table top size: shall match roller system width
  - Approximate range of lift: 12.5" lowered to 38" raised
  - 2 polyurethane swivel casters with brakes
  - 2 polyurethane rigid casters
  - All steel construction
  - Hydraulic foot pump, no more than 30 strokes for full range of lifting range
  - Bright yellow for visibility
  - Variable lowering speed
- 2.2.8. Mini Computer Workstation shall contain the following core parts:
- Approximately 20" deep x approximately 28" wide x 35 ¾" high table top
  - Butcher block wood top: 1 ¾" thick, 90 degree radius front edge, impact resistant, support a minimum of 3200 LBS.
  - 2 Attached LCD monitor arms
  - Power strip outlet w/ 6 receptacles w/ on/off switch
  - 1 channel with data knock outs
  - Multiple uprights with supports for shelving and monitor holder
  - Data knock out strips
  - Rated for industrial locations
  - Tilt-able shelves
- 2.2.9. Roller System with MPI Substations: Design of this roller system and substation shall not require any modification to the foundation except for mounting. All booths and substations shall be moveable.

2.2.9.1. General requirements for all components of the roller system and MPI substations:

- Shall have a minimum load capacity of 500 LBS.
- Shall be capable of handling and processing MPI baskets with 24" tall aircraft parts unless specified
- Transition points between sections of the roller system (if sectional), turning tables and substations shall be smooth and continuous. No misalignments, steps or interference points allowed.
- All materials and equipment used for the roller system w/ MPI substations and baskets shall be compatible with the following:
  - MIL-PRF-680 type II solvent and fumes
  - Tectyl 894, Grade 3 material and fumes
  - Vertrel SDG solvent and fumes
  - Tergo MCF solvent and fumes
- Compressed air for all substations shall be clean, oil free, moisture free and filtered
- 304 stainless steel construction of all wetted surfaces unless stated otherwise
- No part of these sub-stations shall be connected to the industrial waste line
- All elements of substations shall be leak free: doors, cabinets, piping, tanks, drip rails, gloves, windows etc.
- De-preservation and preservation sub-stations shall contain a stainless steel containment floor pan that extends just past the boundaries of the machine
- All observation window material shall be heat treated glass
- Entry and exit doors for all substations:
  - Width shall be large enough for the easy transfer of MPI baskets
  - Height of doors shall be large enough to allow a 24" tall aircraft part in an MPI basket
  - Shall be light and easy to open manually when required and shall have a detent mechanism, or equivalent, to prevent door from falling unexpectedly while in the up position (loss of air pressure, cylinder failure, solenoid failure)
- Shall allow operator to lower door manually with no manual disengagement of mechanism
- Shall automatically engage every time the door is opened manually or automatically
  - Door shall be on linear slides or equivalent for smooth operation
  - Shall open up and close down unless stated otherwise or conflicts with design requirement
  - Provide a leak free seal when closed
  - Not interfere with roller system or require removal of roller system to open door
  - Provide smooth transition from roller system to and through inside of cabinet
  - Provide pneumatic lifting/lowering operation with pushbutton unless otherwise stated:
    - Location of pushbuttons shall be near each entry and exit point.
    - Shall have a bypass for lifting/lowering the door by hand if manual opening is preferred
  - Shall allow visibility of the aircraft part in cabinet unless otherwise stated:
    - Contractor shall maximize viewing window
    - Doors shall have a metal frame with viewing window centered
    - Viewing window:
      - Material shall be heat treated glass
      - Shall be easy to replace
      - Shall be easy to access and clean from inside
      - Shall not leak if exposed to liquids

- Substation cabinets shall have easily removable access panels around the perimeter. No swinging access panels shall be allowed.
- All pumps used for circulation, filtration, spraying and pumping material out of tanks shall have a minimum of 3 HP unless stated otherwise
- All foot treadles shall be initially mounted but allow for relocation for operator comfort
- All clean air guns shall have nozzles designed to deliver air and provide chip guarding that meet standards in Appendix C.
  - Incoming air to the clean air blow gun shall not exceed 100 PSI.
  - The contractor shall provide documentation that the nozzle meets standard
- All clean air guns and nozzles located inside cabinets shall have a hanging method:
  - Locations shall be easily accessible from the gauntlets
  - Shall not interfere with any motions of the aircraft parts or baskets
- All valves, pumps, cylinders, tanks, and piping shall be easy to access. Dis-assembly of any component of the machine shall not require any special tools
- All gauntlets shall:
  - Be compatible with chemicals listed for MPI substations
  - Not crack or deform
  - Be easily replaceable
- Sound levels of any substation and supporting equipment shall not exceed 60 DB
- No part of the roller system, turning tables and substations shall have sharp edges
- Shall be compatible with MPI baskets specified below

#### 2.2.9.2. Roller system:

- Working width: 36"
- Working height: 36"
- Have a minimum load capacity of 500 LBS.
- Equipped with guard rails along entire length of roller system
- Rust free and easy to maintain
- Working width and height shall be equal along entire path of roller system
- Roller turning sections:
  - Shall be ball transfer tables
  - Equipped with guard rails
  - Match dimensions of roller system
- Shall be mounted to floor
- Roller system stainless steel catch pans:
  - All roller sections shall have catch pans to include turning sections:
    - De-preservation stations shall have catch pans with drains that lead back into holding tank of machine at entry and exit points
  - Shall be easy to access, removable and easy to clean
  - Pans shall not leak when butted up against machine or other pans
- MPI baskets:
  - All materials of the basket and coating material shall:
    - Be compatible with the following:
      - MPI materials listed above
      - Magnaflux ZL-67
      - Magnaflux ZL-37

- Magnaflux ZL-56
- Magnaflux ZP-4B
- Magnaflux ZP-14A
- Magnaflux ZR-10B Hydrophilic Emulsifier
- Not damage aircraft parts
- Not interfere with magnetization or de-magnetization process
- Coating shall not flake off or deform under normal use
- Shall fit the width of roller system with no more than ¼" to 3/8" clearance all around from outside of basket and shall pass through all substations and roller systems with no interference
- 3" tall wall
- Shall be rust free, stackable and easy to clean
- Design of basket walls shall have a taper outwards to allow for stacking and be equipped with 2 pairs of handles or handle openings gripping located opposite each other
- Design shall not allow handles to be part of outer dimensions
- Constructed from wire mesh:
  - Wire spacing of ½" through 5/8" distance, center to center:
  - Capable of holding 200 LBS. without deflection
- Basket may have framing material for additional strength. Framing shall only be used on the perimeter of the basket.
- Have at least 80% open area
- Be all welded construction, fasteners shall not be allowed
- Not deform when exposed to 160 degrees Fahrenheit
- Provide a total of 40 each MPI baskets
- Each basket shall have a small placard and be serialized. Placard shall contain serial number and weight capacity.
- Each basket shall be proof loaded. Contractor shall provide verification.
- Contractor shall provide basket inspection procedures

#### 2.2.9.3. Cleaning Substation:

- Operating voltage: 115 VAC, 60 HZ, single phase
- Operating air pressure range: 90 PSI to 100 PSI
- Cabinet
  - Inside working dimensions of cabinet:
    - Length and width shall be enough to turn the MPI basket 360 degrees with no obstructions plus 6" per side: front, back and sides
    - Height of cabinet shall be tall enough to lift and rotate aircraft part, without interference from machine components
  - Entry and exit doors - No viewing windows required
  - Window size: width equal to width of machine and large enough to view a 24" tall aircraft part in a basket -
    - Middle of window shall be operators eye level in height
    - Shall not be load bearing
- Solvent spray gun for manual spray:
  - Pump and nozzle system shall produce a solid stream (not a fine, atomized or shower-type spray)
  - Full cone spray pattern nozzle: 12 PSI and a minimum flow rate of 32 gallons per minute

- Flow rate and pressure adjustable
- Source of solvent for spray gun shall come from machine tank
- Easily accessible from gauntlet location
- Foot treadle control
- Provide additional spray nozzles:
  - One straight flow nozzle
  - One right angle flow nozzle
  - One “V” pattern wide angle nozzle
- Clean air guns:
  - Finger triggered
  - One located at exit point, outside of machine with coiled hose provided
  - One located inside cabinet
  - Shall have an air filter/condensate/oil separator/desiccant dryer system in accordance with CCAD J.02 page 16 section 14.2
  - Shall have a nozzle providing pressure no greater than 30 PSI, flow rate adjustable
  - Shall have an air pressure regulator providing adjustment up to 90 PSI
- Rotating table to turn MPI basket
  - Surface of table to be parallel and on same plane as entrance and exit roller tables
  - Must be mounted so that the rotating table base does not move while handling the workpiece
  - Allow rotating of basket 360 degrees
  - Designed to not interfere with spray nozzles underneath table
  - Spray nozzles underneath rotating table:
    - Shall have at least 6 nozzles:
      - Each shall be easily adjustable
      - Pump and nozzle system shall produce a solid stream (not a fine, atomized or shower-type spray)
      - Full cone spray pattern nozzle: 12 PSI and a minimum flow rate of 32 gallons per minute
      - Flow rate and pressure adjustable
      - Source of solvent for nozzles shall come from machine tank
      - Pointed upwards towards the aircraft parts
    - Shall reach extremities of tallest aircraft parts
    - Shall be positioned to cover an MPI basket centered on rotating table
    - Stream shall not be interfered with by any part of the table
    - Have one pair of gauntlets for manual spray and manipulating the part onto table:
      - Mounting shall be in an ergonomic location
      - Shall easily reach aircraft part
      - Shall not interfere with movement of aircraft parts in cabinet
    - Base shall be designed to return all solvent back to the holding tank and shall not have any areas of solvent puddling
    - Shall have a fluid holding tank that shall manufactured from stainless steel. It shall have a liquid sight glass and a removable, stainless steel large particle filter shall be located in the bottom of the holding tank. The cleaning fluid shall pass through this filter before being filtered by four resin bonded five micron filters housed in an external stainless steel housing. These filters shall be commercially available. The machine shall have a method to determine when to change the filter.

- Sight glass shall have increments from 0 to full
  - Have a maximum capacity of 55 gallons
  - Provide safe method for filling/removal of solvent in tank near sight glass
- Shall not require machine panel removal or squatting and allow for easy cleaning.
- Vapor recovery for cabinet:
  - The vapor recovery module shall be air driven with suction air that passes through a top vent and then through the following 2" metal fiber filter, a chevron filter, another 2" metal fiber filter, 12" V bank charcoal module, a 1" metal fiber filter, then a 6" V bank charcoal module and finally through a polyester pad before being exhausted into the atmosphere. The cleaning fluid that is captured by this system shall be returned to the cleaning fluid reservoir.
  - The contractor shall have the discretion of developing an alternate vapor recovery system with identical results as stated above for efficiency and ease of use
  - Control features and indicators:
    - System on/off shall be controlled by an illuminated pushbutton. Illumination light shall indicate when system is turned on.
    - Cabinet lighting:
      - Automatically turn on when manual functions are engaged
      - Automatically turn on when a door is opened and remain on during cleaning
      - Shall have a manual on button
      - Turn off when machines is idle for 5 minutes, adjustable
  - Vapor recovery system starts when:
    - Manual pushbutton is pressed
    - Any door is opened
    - Any manual operation is initiated
  - Vapor recovery system ends when the machine is idle for 5 minutes, adjustable
  - Sensors on side doors should not allow any operation of internal spray nozzles or clean air when either door is opened
  - Spray nozzles underneath turn table:
    - On and off control with mechanical switch inside cabinet
    - Switch shall be within reach of gauntlet/gloves
    - Disengages if either door opens
  - Shall provide indicators at operator location such as:
    - Status indicators
    - Machine is in use
    - Pump indicator light
    - Vapor recovery light
  - System pump:
    - Pump system shall be a closed loop system and receive fluid from the tank
    - Shall have an operational pressure not to exceed 45 PSI and a minimum flow rate of 30 gallons per minute.
    - Piping shall consist of a minimum of 90% welded slip joint stainless steel
    - Pump system shall include a pressure gauge. This gauge shall be located so that the operator can monitor the system pressure from the operator's side
    - Manual valves shall be provided in the fluid lines on each side of the pump for maintenance purposes.
    - All system valves shall be stainless steel

- Piping shall be compatible with solvent used
- Provide a bypass valve and hose for removal of solvent
- Provide a pump switch specifically for engaging pump operation for removal of tank fluid into a 55 gallon drum. Hose shall be long enough and suitable for solvent.
- Switch shall be located near the tank emptying point
- Additional machine cabinet specs:
  - Shall provide 10" of height adjustment
  - Entry and exit doors:
    - Provide drip rails mounted on cabinet for catch system for excess solvent:
    - Provide path with suction for excess fluid back to the holding tank with vacuum
  - Lighting: shall be from outside and above cabinet and provide illumination greater than 100 foot-candles inside cabinet at furthest point within cabinet. Multiple light sources permitted. Shall provide light on entire aircraft part.
  - All valves, pumps, cylinders, tanks, and piping shall be easy to access. Disassembly of any component of the machine shall not require any special tools
  - Cabinet shall not allow pressure build up
  - Fiber filters, charcoal module, polyester pad and filter in housing shall be easily accessible with no tools required to access items
    - Shall provide 4 extra filters for each type used on machine and 4 spare gauntlets and gloves
  - Spray guns and air blow off guns shall be attached to flexible hosing using quick disconnect fittings:
  - Contractor shall provide 2 types of blow off guns: short nozzle and long (air wand) nozzle
- Operation, PLC program, spare parts list, installation and preventative maintenance manuals shall be provided

#### 2.2.9.4. Blow Dry Substation

- Operating air pressure range: 90 PSI to 100 PSI
- Cabinet:
  - Closed system
  - Roller sections shall go through the cabinet:
    - Roller sections within this cabinet shall have the center to center distance twice the centers of the outside rollers
  - Shall maintain roller slots at original center to center distance for heavier loads
  - Removable rollers as to maximize solvent spray from underneath rollers:
  - Removing and installing rollers shall be easily completed from outside cabinet with doors open
  - No catch pans required
  - Shall be considered a wet area
  - Inside working dimensions of cabinet:
    - Wide and deep enough to allow MPI basket to pass through
    - Height of working zone shall be tall enough to process a 24" aircraft part in a basket
  - Provide air drying, stationary, operator adjustable nozzles for complete coverage of aircraft part
    - Shall have top and bottom nozzles and not interfere with tallest aircraft part
    - Top and bottom nozzle array to be operated independently on separate solenoid valves

- Air pressure for nozzles adjustable from 30 PSI to 90 PSI to maximize solvent removal
- Typical CFM through nozzles: 50 to 80
- Quantity of top and bottom nozzles shall be sufficient to provide clean air blasts evenly, from top and bottom, to aircraft parts in a basket.
- Have one pair of gauntlets and gloves for manipulating the part
  - Mounting shall be in an ergonomic location and centered with aircraft part
  - Shall provide protection against high air flow and pressure
  - Shall easily reach aircraft part and basket
  - Shall not interfere with drying process when not used
- Manual clean air guns:
  - One clean air gun in cabinet
  - One blow gun outside cabinet at exit point of machine
    - Provide a coiled hose
      - Shall have a nozzle providing pressure no greater than 30 PSI, flow rate adjustable
      - Shall have an air pressure regulator providing adjustment up to 90 PSI
- All nozzles and clean air guns shall be connected to an air filter/condensate/oil separator/desiccant dryer system in accordance with CCAD J.02 page 16 section 14.2
- Have a viewing window:
  - Window size: width equal to width of machine and large enough to view a 24" tall aircraft part in a basket
    - Middle of window shall be operators eye level in height
    - Shall not be load bearing
- Entry and exit door with sensors:
  - Provide drip rails mounted on cabinet for catch system for excess solvent
- Provide path with suction for excess fluid back to the residual holding tank with vacuum
- Lighting: shall be from outside and above cabinet
  - Provide illumination greater than 100 foot-candles inside cabinet at furthest point within cabinet. Shall provide light on entire aircraft part. Multiple light sources permitted
- Vapor recovery for cabinet:
  - The vapor recovery module shall be air driven with suction air that passes through a top vent and then through the following 2" metal fiber filter, a chevron filter, another 2" metal fiber filter, 12" V-bank charcoal module, a 1" metal fiber filter, then a 6" V-bank charcoal module and finally through a polyester pad before being exhausted into the atmosphere. The cleaning fluid that is captured by this system shall be routed to the residual holding tank.
  - The contractor shall have the discretion of developing an alternate vapor recovery system with identical results as stated above for efficiency and ease of use.
  - Recovery flow rate to meet or exceed incoming air flow rate of cabinet
- Base of cabinet shall allow excess solvent to be funneled to a residual holding tank
- Control features and indicators:
  - System on/off shall be controlled by an illuminated pushbutton. Illumination light shall indicate when system is turned on.
  - Automatic blow-off function:
    - Cycles between upper and lower nozzles:
      - Pushbutton start

- Air blast: 0 seconds to 3600 second timer, adjustable
  - Light indicator for auto mode
  - Auto mode interrupt and reset feature
  - Lighting turns on and stays on during duration of cycle
  - Vapor recovery system start
- Manual operation of top and bottom nozzles:
  - Each array of top and bottom nozzles:
    - Shall have its own pushbutton
    - Shall have its own adjustable on timer
- Cabinet lighting:
  - Automatically turn on and remain on during auto drying mode
  - Automatically turn on when manual functions are engaged
  - Automatically turn on when a door is opened
  - Shall have a manual on button
  - Turn off when machines is idle for 5 minutes, adjustable
- Vapor recovery system starts when:
  - Any door is opened
  - Internal clean air gun is initiated
  - Auto cleaning mode is initiated
  - Manual pushbutton on
- Vapor recovery system ends when the machine is idle for 5 minutes, adjustable
- Sensors on side doors
  - If in automatic mode, process pauses when either door opens
  - Does not allow any manual operation of spray nozzles or clean air when door is opened
    - External clean air gun shall outside of cabinet and vapor recovery shall be allowed to operate
  - Shall provide indicators at operator location
    - Vapor recovery light
    - Auto process complete
    - Auto mode engaged
- Residual holding tank
  - Suitable for solvent
  - Lightweight
  - Have an indicator for fluid level
  - Sealed, except for piping
  - 10 gallons holding capacity
  - Piping to holding tank shall allow for smaller or larger holding tanks: 5 to 25 gallons
- Shall not allow air pressure build up
- Fiber filters, charcoal module, polyester pad and filter in housing shall be easily accessible with no tools required to access items.
- Shall provide 4 extra filters for each type used on machine and 4 spare gauntlets and gloves
- Provide 2 sets of each type of nozzle used on machine
- Clean air blow off guns shall be attached to flexible hosing using quick disconnect fittings
- Operation, PLC program, spare parts list, installation and preventative maintenance manuals shall be provided.

#### 2.2.9.5. De-Mag Substation

- Roller shall pass through de-magnetization machine:
  - Material of this roller section shall not interfere with magnetization or de-magnetization process
  - Shall contain a catch pan that does not interfere with operation of the machine
- Demagnetizer
  - 460/480 VAC @ 50 HZ To 60 HZ
  - AC coil type
  - Opening: 33" high x 38" wide, minimum dimensions
  - Control panel easily accessible
  - Adjustable shot time
  - Ampere-Turns: 16000 minimum
  - Residual magnetism shall not exceed 3 Gauss anywhere in accordance with MPI Tech Sheets 201107768 (page 3) and 201206022 (page 2).

#### 2.2.9.6. Preservation Substation

- Steel tank, mild, for each preservative oil to be used in a dip application.
- Brushes, fiber, for application of the corrosion preventives.
- CeeBee MX-15U, or equivalent, Aqueous Corrosion Inhibiter (use only as a temporary coating on parts to prevent flash rusting).
- In line with the roller system:
  - Elevator shall have rollers for ease of maneuvering basket through machine
  - Elevator shall be on same plane as roller table
- Immersion area and cabinet:
  - Shall have doors for overnight preparation of machine, doors shall be manual open with detent, self-locking mechanism in the up position. Door shall not be required to be closed for operation of machine:
    - Shall be easy to close
    - No pneumatic operation required
    - Doors shall not require viewing window
  - Basket raising and lowering mechanism into tank shall be pneumatic with adjustable, speed controlled up and down motion
  - Inside working dimensions of cabinet:
    - Wide and deep enough to allow MPI basket to pass through
    - Height of working zone, from elevator to top of machine, shall be tall enough to process a 24" aircraft part in a basket
  - Have a viewing window
    - Window size: width equal to width of machine and large enough to view a 24" tall aircraft part in a basket
    - Middle of window shall be operators eye level in height
    - Shall not be load bearing
  - Have one pair of gauntlets and gloves for manipulating the MPI basket onto the elevator
    - Mounting shall be in an ergonomic location
    - Shall easily reach aircraft part
    - Shall not interfere with immersion process
  - Lighting: shall be from outside and above cabinet

- Provide illumination greater than 100 foot-candles inside cabinet at furthest point within cabinet. Shall provide light on entire aircraft part. Multiple light sources permitted.
- Elevator raising capabilities when input utilities is cutoff (air or electricity)
- Control features and indicators:
  - System on/off shall be controlled by an illuminated pushbutton. Illumination light shall indicate when system is turned on
  - Manual raising and lowering:
    - Pushbutton manual lowering basket to tank
    - Pushbutton manual raising basket from tank
  - Automatic immersion function
    - Automatic lowering into tank after pushbutton start
    - Automatic raising from tank after timer sets
    - 0 to 120 second timer, adjustable
    - Light indicator for auto mode
    - Lighting turns on and stays on during duration of cycle
    - Operation shall be allowed if doors are open or closed
  - Automatic agitation function:
    - Automatic lowering and raising of elevator in a repeated motion
    - 0 to 5 minute timer, adjustable
    - Pushbutton (with light indicator) start
- Cabinet lighting:
  - Automatically turn on and remain on during auto mode
  - Automatically turn on when manual functions are engaged
  - Automatically turn on when a door is opened
  - Shall have a manual on button
  - Turn off when machine is idle for 5 minutes, adjustable
- Preservation fluid holding tank:
  - Holding tank shall be manufactured from stainless steel and shall have a liquid sight glass and shall have increments from 0 to full
  - Provide safe method for filling/removal of solvent in tank near sight glass
    - Shall not require machine panel removal or squatting
  - Allow for easy cleaning
  - Allow for full submerging of aircraft parts 24" high with MPI basket plus at least 3 inches
  - Provide an electric pump and pump switch specifically for removal of preservative into a 55 gallon drum. Discharge hose and pump shall be suitable for preservative. Switch shall be located near discharge area.
  - Tank shall have a lid directly over fluid:
    - Shall have a seal
    - Shall not interfere with the rollers
    - Shall open and close automatically
    - Shall have a method of operating manually if preferred or without power
    - Shall be easy to remove and replace from side openings
    - Shall not allow fluid leaks when open
- All system valves shall be stainless steel

- Operation, PLC program, spare parts list, installation and preventative maintenance manuals shall be provided

#### 2.2.10. MPI Booth

- Booth shall be moveable
- Height shall be tall enough to contain jib crane
- NDI curtain
  - Black in color
  - Material and design shall conform to NDI standards and applications
  - Flame resistant curtains
  - Curtain design shall allow:
    - For horizontal rolling in half and hanging
    - A vertical slit for operator entrance into the booth with a slight overlap to limit light entry
  - Curtain shall not flutter:
    - Edges of curtain shall be fixed to vertical structures when fully extended
    - Allow for quick removal from vertical structures
  - Curtain material shall be rated for 40 to 125 degrees Fahrenheit with no deformation
  - Design shall allow easy replacement of patches for roller entry/exit areas and any other section of the curtain
  - Design of curtain and structure shall not create trip hazards inside or outside of booth
  - Design shall include 4 sided curtain walls: left wall, right wall, entrance and rear.
  - Material shall be able to be cleaned with water and soap
- Sturdy, metal framing mounted to floor and structures shall be rigid
- Roller entry and exit points:
  - Entry and exit points shall have a patch of the curtain cut in vertical strips and overlapped. Patch shall be large enough to allow the roller and a MPI basket with a 30" aircraft part to pass through
  - Vertical strips shall be cut and overlapped to minimize light from entering the booth
  - These sections shall be easily replaceable and the Contractor shall provide spare sections.
- Air circulation fans:
  - One fan for venting air (heat) out of curtain enclosure
  - One fan for cool air and circulation
  - Locations of circulation fans shall be on opposite sides of the booth
  - Each with on/off switch and speed control on wall
  - Capacity of cooling fan to keep inside curtain enclosure at same temperature as surrounding area with MPI machine on
  - Cool fan air shall not be directed toward MPI machine or operator
  - Location of fans to be easily accessible to allow for easy replacement
- Lighting over inspection area:
  - Inspection areas are over the MPI machines
  - Overhead high power white light: with on/off switches. The light shall provide a minimum of 110 foot candles of visible light when measured at the machine. One switch shall be near entrance of booth and another near the inspection area for easy operator access.
  - All lighting over inspection areas shall be designed and installed in accordance with all the applicable industry codes and UFC codes.

- Shall not allow more than 2 foot candles of outside light when enclosure light is off
- Solid overhead roof:
  - Black
  - Aluminum composite material that is flame resistant
  - Smooth surfaces
  - Shall not deteriorate when cleaned with water and soap
  - Seams of paneling shall not permit light
- The following materials shall not be allowed:
  - Sheetrock and gypsum
  - Plywood
  - Any porous materials
- Shall have additional 120 VAC receptacles, approximately 3 feet from floor, for ancillary equipment throughout booth
- Enclosure shall be moveable

2.3. Spot Inspection Area: The Contractor shall provide and install equipment as stated in Table 3: Spot Inspection Area New Equipment List in accordance with industry standards. The Contractor shall provide such documentation in the product drawings and associated lists for the equipment.

Table 3: Spot Inspection Area New Equipment List

Item	Specification
Jib Boom with Rolling Air Hoist	2.3.1.
Workbench, 36" x 60"	2.3.2.
Worktable, 36" x 96"	2.3.3.
Spot Inspection Curtain Enclosure	2.3.4.
LED UV Lamp	2.2.6.

#### 2.3.1. Jib Boom with Rolling Air Hoist

- Jib Boom
  - 360-degree rotation travel with adjustable stop
  - Working height: shall lift AH64 main housing from floor to 10 feet
  - At least 3x greater than air hoist capacity
  - Working span dependent on application and location. Jib boom spans throughout DCRF range from 4' to 8'.
  - Base mounted, steel construction
- Air hoist
  - 90 PSI rating
  - 500 pound capacity
  - Manual trolley: easy to push/pull on jib boom span, no binding
  - Control pendant to be level to operator
  - Hardened steel load chain with hook and latch 360 swivel end
    - 1-1/8" hook opening
    - Maximum chain length: hook shall touch the floor plus 1 foot
  - Disk brake for zero load drift
  - Lubrication free
  - Variable lowering and lifting speed and precise positioning by control pendant
  - Emergency stop button

- 2.3.2. Workbench, 36" x 60": shall contain the following core parts:
- 36" deep x 60" wide x 35 ¾" high table top
  - 120 VAC overhead light, T8 bulbs or LED equivalent, cantilever overhead supports, approx. 48" above work surface
  - Butcher block wood top: 1 ¾" thick, 90 degree radius front edge, impact resistant, support a minimum of 3200 LBS.
  - 2 open legs with stringer: 3" wide, 5" inversed hat top (blue)
  - 1 rear stringer (blue)
  - 2 LCD monitor holders
  - 3 multi-purpose uprights (blue)
  - 2 power outlet strips w/ 6 receptacles each minimum, w/ on/off switch--
  - 2 channels with data knock outs (blue)
  - 2 tiltable shelves (blue)
  - 2 upright cross members (blue)
- 2.3.3. Worktable, 36" x 96": shall contain the following core parts:
- 36" deep x 96" wide x 35 ¾" high table top
  - Butcher block wood top: 1 ¾" thick, 90 degree radius edges (4 edges), impact resistant and support a minimum of 3200 LBS.
  - Multiple open legs with stringers: 3" wide, 5" inversed hat top (blue)
  - Multiple rear stringers (blue)
- 2.3.4. 4.5.22. Spot inspection curtain enclosure:
- NDI curtain: specifications identical to MPI booth NDI curtain
  - Working dimensions of booth:
    - Length and width defined in section 2.5.
    - Height shall be tall enough to contain jib crane
  - Sturdy, metal framing mounted to floor and structures shall be rigid
  - Air circulation fans:
    - One fan for venting air out of curtain booth
    - One fan for cool air and circulation
    - Locations of circulation fans shall be on opposite sides of the booth
    - Each with on/off switch and speed control on wall
    - Capacity of cooling fan to keep inside booth at same temperature as surrounding outside area
    - Cool fan air shall not be directed toward operator
    - Location of fans to be easily accessible to allow for easy replacement
  - Lighting over inspection area:
    - Overhead high power white light: with on/off switches. The light shall provide a minimum of 100 foot candles of visible light when measured at the worktable. Switch shall be near entrance of booth.
    - Overhead black light, fluorescent or UV-A flood lamps: with on/off switch. The black light shall provide a minimum of 1200 microwatt/CM<sup>2</sup> at the worktable. Switch shall be near entrance of booth.
    - Shall provide a method for easy cleaning of light fixtures and bulb maintenance
  - Shall contain a jib crane

- The contractor shall design the lighting to limit the obstruction of light caused by the crane system
- Solid overhead roof: specification identical to MPI booth solid overhead roof
- Shall have additional 120 VAC receptacles, approximately 3 feet from floor, for ancillary equipment throughout booth

2.4. Hazardous Waste Area: The Hazardous Waste Area shall temporarily store hazardous material in 55 gallon drums. The Contractor shall provide grounding and bonding for this area in accordance with the minimum following standards:

- OSHA 29 CFR 1910.106
- NFPA 30: Flammable and Combustion Code (2015 edition or most recent)
- NFPA 77 Recommended Practice Of Static Electricity (2014 edition or most recent)
- The Contractor shall provide solid copper common ground lines equal to the length of the side of the fence with an insulated standoff. The copper ground shall be installed on the fence.

The Contractor shall provide the design and installation of the fence. The lengths of the fencing in this area shall be determined by section 3.2. The Contractor shall provide Hazardous Waste Fence Drawing, in accordance with DI-SESS-81000E Product Drawings/Models and Associated Lists, CDRL A001, for Government review prior to beginning installation, to include grounding and bonding requirements.

2.5. Utility Room: This area houses the Reverse Omission (RO)/Deionized Water (DI) water system and support equipment installed. If penetrations through the wall joining the utility room and Dynamic Component Repair Facility (DCRF) are required, the Contractor shall provide a drawing of the proposed penetrations for Government review prior to starting penetrations in accordance with DI-SESS-81000E Product Drawings/Models and Associated Lists, CDRL A001. If penetrations are performed, the Contractor shall insulate and seal around the piping and provide a leak free seal in an aesthetic manner. The Contractor shall provide leak free connections.

2.5.1. Closed Loop System Installation: The Contractor shall design and install a closed loop system for the reverse omission (RO)/deionized water (DI) water system. The main trunk shall be located above the Dynamic Component Repair Facility (DCRF) production floor. The piping system shall not interfere with cranes, ducting or any other ceiling mounted items. The contractor shall design a main trunk system that allows efficient feeder drop connections and maximum flow and pressure to equipment. The Contractor shall determine pipe size and final trunk position to satisfy the RO/DI water requirements for production equipment and specifications in this document. The main trunk water shall be circulated back to the RO/DI equipment; however, the feeder drops from the main trunk do not require circulation back to origin. The Contractor shall consider that the closed loop system will merge with a future RO/DI water system and will supply additional equipment in the new building adjacent and south of DCRF. The Contractor shall provide a method for removing and expanding the east section of the piping system. The Contractor shall provide manual valves along the trunk for emergency shut off. The Contractor shall provide taps and bypass valves for flushing the system. The Contractor shall provide the piping design in the RO/DI water system product drawings.

- Diameter of the main trunk shall be no less than 4"
- The piping layout in section 3.2. is an estimate only

2.5.2. Heavy Duty Wire Shelving: The Contractor shall install a heavy duty wire shelving. The Contractor shall provide a heavy duty wire shelving product drawings/models and associated lists, in accordance with DI-SESS-81000E Product Drawings/Models and Associated Lists, CDRL A001.

2.5.3. Specifications:

- General:
  - Target system output PH level: 7
  - Target system output resistance: 1 mega ohm
  - Target pressure range at each point of use at production floor: 15 PSI to 25 PSI

- Target GPM at each point of use at production floor:
  - 15 GPM of RO water
  - 15 GPM of DI water
- RO/DI water reject/waste requirements: PH level 6-9
- All piping shall be compatible with RO and DI water
- Controller housing for both systems shall be NEMA 12 rating or better
- Provide water sample ports:
  - Between incoming pretreatment filtration and RO
  - Between RO and DI system
  - After DI system
  - At reject/waste output
- System shall be suitable for:
  - Water available for DCRF
  - Local all year long weather and water temperatures
- RO system:
  - 208 VAC minimum voltage
  - Shall have a cartridge style pre-treatment filter (no resin beds)
  - Vertical membrane orientation
  - 12 membrane minimum vessels
  - Single pass system, closed loop
  - RO water flow rate: 15 GPM minimum
  - Skid frame material: painted and welded structural carbon steel
  - Mounted casters
  - Instrumentation, control and indicators:
    - Low pressure gauge
    - High pressure gauge
    - Low feed pressure switch
    - High pump discharge switch
    - Feed conductivity/resistivity sensor tied to controller
    - Product conductivity/resistivity sensor to controller
    - Product flow indicator
    - Reject flow indicator
    - Recycle flow indicator
    - Controller specifications:
      - LCD with ethernet compatibility with RJ45 connection for remote monitoring by SCADA
      - Discrete input and outputs: at least 4 input and 3 output
      - Minimum warning messages:
        - Low resistivity/high conductivity
        - Chemical tank low
        - Operating hours exceeded for filter
      - Shutdown alarms:
        - High TDS/conductivity
        - Pressure fault for low feed and/or high membrane feed
        - High feed temperature
        - Pre-treatment lockout

- Storage tank full
    - Indicators:
      - High TDS/conductivity
      - Pressure faults (low feed and high membrane feed)
      - High feed temperature
      - Pre-treatment lockout (non-alarming)
      - Storage tank full (non-alarming)
      - Operating hours
      - Operating status: standby, operating, tank full, pre-treat, membrane flush
      - Additional relays for ancillary equipment
      - Audible alarm red LED
  - DI system:
    - NEMA rated
    - 208 VAC minimum voltage
    - Continuous electro-deionization type:
      - One module system
      - 30 cell pairs minimum
    - 15 GPM point of use at production floor
    - Frame material: painted and welded structural carbon steel
    - Feeds 1500 gallon poly tank:
      - High and low level sending units
      - Internal circulating system
    - Instrumentation control and indicators:
      - System feed pressure
      - Product feed pressure
      - Reject feed pressure
      - Product conductivity measurement monitor with resistivity element
      - Product flow measurement monitor with flow sensor
      - Concentrate flow measurement monitor with flow sensor
    - Solid state controller shall have enable and disabled operation modes
    - System shall have an efficiency of 90% or greater at all times
  - System spare parts items:
    - 6 each filters of each type used
    - 2 each membrane vessels
- 2.5.4. Contractor shall provide the following documentation prior to acceptance:
- Operation and maintenance manuals
  - Installation procedures
  - Start-up procedures
  - Functional description
  - Flow rate charts
  - Equipment specifications
  - Spare parts lists
  - Technical/support services
  - Detailed process, plumbing and instrumentation drawings
  - General equipment arrangement drawings

- Quality assurance data reports
- Electrical schematics

2.6. Painting of Fire Lanes: The Contractor shall provide painted fire lines on the perimeter of the areas indicated in section 3.2. Lines adjacent to building or enclosure walls shall not be painted. All lines shall be painted straight and all corners shall be perpendicular.

- Low gloss, dull fire hydrant red
- Anti-slip material shall be added
- Contains a final low gloss, sealed, protective overcoat
- Rated for heavy duty foot and industrial traffic (forklifts, roll lifts, pallet jacks, etc.) and shall not peel or break off
- Shall be rated to be used on concrete without etching
- Shall be resistant to water, salt water, sand and oils
- Approximate width: 3-3/4" to 4": uniform width for all paint lines
- Multiple coats required

2.7. Bollard Installation: The Contractor shall install bollards at locations in accordance with section 3.2. The Contractor shall follow the manufacturer's installation procedures.

- Shall have a flexible base
- Typical height: 42"
- Safety yellow body
- Diameter range: 3" to 4"
- Floor mounted
- Typical energy absorption: greater than 1500 Joules

### 3. Installation

3.1 Dynamic Component Repair Facility (DCRF) Bldg 1700.3 Access: The Government will provide the Contractor with all necessary access to DCRF and its infrastructure to complete the efforts of this contract. The Contractor shall fill out necessary forms provided by the Government required for access to DCRF. The Contractor shall only use the north entry and exit points for all equipment movement. If the Contractor requires access to entry and exit points in Building for the purpose of moving equipment, the Contractor shall coordinate all moves through the building with the Government.

3.2 Drawings: (Drawings will be provided on a separate file from the SOW)

3.2.1 Building Architecture and Facility Drawings: The Government will provide drawings showing column locations, electrical taps and locations, water taps and locations, phone hubs and locations, IT cabinets and hub locations, compressed air taps and locations. These drawings are available to CCAD through a third-party contractor from a current MCA project. Preliminary drawings will be provided upon site visit; however, the as-built, final drawings of the building will not be available until a later date.

3.2.2. Concrete Slab Ratings and Drawings: The Government will provide drawings showing slab thickness and load capacities of the building floor. The load capacities of the slab dictate the paths for large material handling equipment with heavy loads. The Contractor shall observe and not exceed the load limits during transport of any material through the building. Equipment with large weights will have a designated location with the proper concrete slab rating.

3.2.3. Building Shop Floor Equipment Layout Drawing: The Government will provide the equipment layout drawing showing all equipment locations for new and relocated equipment from other buildings. This drawing set is generated and supported locally by CCAD. The Contractor shall use this file to maintain the 'as-built' drawings. The Contractor shall use this document to determine quantities of equipment to be procured if the quantity specifically is not stated in this document. A preliminary drawing will be provided upon site visit, however the as-built, final drawing of the shop floor will not be available until a later date.

3.2.4. Utility Distribution Designs and Utility Design Drawings: The Contractor shall have a practicing, licensed professional engineer create and stamp the Utility Distribution Designs and Utility Design Drawings. All designs shall be in accordance all applicable codes UFC codes. The Contractor shall provide the utility drawing with all equipment and shop floor areas represented in the drawing. The utility drawing also shall demonstrate all utility connections for the MPI. Utility distribution shall extend to the utility room. The Contractor shall provide labeling of Contractor installed city water, chilled water, hot water, DI/RO water, air, vacuum, steam, and fire suppression service pipes that indicate service provided and direction of flow of material within the pipe. The labels shall be clearly visible from the floor. The Contractor shall provide the utility design drawings with all cranes/bridges/rails and crane coverage represented in the utility drawings. All drawings shall be submitted to the Government for review in an electronic and hard copy format. The Government will review and provide comments within 30 working days of submittal. The Contractor shall resubmit the reviewed drawings, with Government comments addressed, within 30 working days. On-site installation shall begin only after Government review and acceptance of drawings. Drawings shall be in accordance with DI-MGMT-8003A Site Preparation and Installation Plan, CDRL A002.

### 3.3. Fluids:

3.3.1 The Contractor shall provide all materials required for the installation of new equipment. The Contractor shall include all the material safety data sheets in the technical manual for new equipment. The Contractor shall provide to the Government:

- Material safety data sheets.
- Vendor and alternate vendor sources and contact information.

3.3.2. The Government will provide the Contractor with the following fluids and material:

- Solvent cleaner for solvent booths
- Cutting fluids for machining equipment
- Bearing shop cleaning line tank fluids
- Vapor degreaser tank fluids
- Preservation vat fluids
- MPI substation tank fluids
- MPI machine material and fluids
- Blast media for shoot peen booths

3.3.3. The Contractor shall provide the Government at least a 30 day notice prior to utilizing the Government furnished material to give ample time to deliver the product. The Contractor shall provide all other fluids required for the installation of equipment.

3.4. Utility Distribution: The Contractor shall distribute building facility services to all equipment. The Contractor shall design and implement the shop electrical system, shop air system, water system, bearing shop steam piping, bearing enclosure systems, paint enclosure system, oven exhaust systems and systems required and shall utilize designated building hubs (electrical, air, water, fire protection, IT, etc.) as identified in the drawings identified in section 3.2.

3.5. Cranes: For utility distribution equipment (to include IT equipment), the Contractor shall:

- Maximize overhead crane coverage in the installation
- Not install any equipment crossing easements, walkways, or aisle ways

- Utilize non-crane coverage areas to the maximum extent possible (between columns, between crane rails)
- Provide horizontal Unistrut heights of a minimum of 15 feet except where stated in this document

3.6. Electrical Service: The Contractor shall be responsible for installing all electrical equipment (transformers, conduit, Unistrut, wire, circuit breaker panels, disconnects, etc.) for a turn-key installation of equipment.

3.6.1. Extension Cords and Power Strips: The Contractor is not authorized to utilize extension cords or power strips to provide power to any equipment listed in this document. All equipment listed in this document shall have its electrical power provided for as set out in the CCAD reviewed electrical design.

3.6.2. Electrical enclosures must meet National Electrical Manufacturers Association (NEMA) ratings for their location.

3.6.3. All electrical components and wiring shall be labeled in such a way that they can be easily found in their schematic i.e., transformer to circuit breaker box to disconnect to machine.

3.6.4. Each circuit shall have a dedicated neutral/grounded conductor. No multi-wire circuits are allowed.

3.6.5. The Contractor shall utilize the CCAD minimum sized conduit of 3/4".

3.6.6. The Contractor shall not utilize electrical non-metallic tubing or flexible non-metallic tubing and associated fittings.

3.6.7. Specify galvanized rigid steel conduit where exposed to weather, subject to physical damage, and exposed on exterior of buildings.

3.6.8. The Contractor is authorized to utilize intermediate metal conduit in lieu of galvanized rigid steel as allowed by NFPA 70.

3.6.9. Specify electrical metallic tubing for branch circuits and feeders above suspended ceilings or where not subject to physical damage. Electrical connections will be made with these.

3.6.10. The Contractor shall not use electrical metallic tubing. The Contractor shall not use metallic tubing in hazardous locations, where exposed to physical damage, outdoors or in fire pump rooms. The Contractor shall use die-cast compression connectors.

3.6.11. The Contractor may utilize flexible metal conduit; however, the conduit is limited to 3 feet total length, for the following: recessed and semi recessed lighting fixtures, for equipment subject to vibration and for motors other than pumps. The Contractor shall utilize liquid tight flexible metal conduit in damp and wet locations and for pumps.

3.6.12. The Contractor shall not place an electrical disconnect underneath any process water feeder lines. The disconnect shall be placed at a minimum of 3 feet from the vertical projection of water feeder lines to the floor. If a disconnect is absolutely required below a water feeder line, the Contractor shall obtain CCAD approval prior to installing a NEMA rated disconnect for wet conditions.

3.6.13. Branch circuit conductors, including power and lighting applications, shall not be thinner than 12 AWG.

3.6.14. All workbenches shall have power to all its power outlet strips and overhead lights.

3.6.15. Power shall be provided to every visual board annotated. The Contractor shall provide 120 VAC receptacles at each point near the area indicated approximately 10 feet high. The Contractor shall not run Unistrut specifically for the visual board and shall utilize existing Unistrut at the closest proximity to the desired location.

3.6.16. All circuit panels and breakers shall be labeled for the equipment it supports.

3.7. Compressed Air System: The Contractor shall be responsible for the design of the shop Compressed Air System to supply air to all equipment that requires air. The Compressed Air System shall consist of the following:

3.7.1. An air purge shall be installed at each I beam drop.

3.7.2. A shut off valve shall be placed prior to each air regulator.

3.7.3. Air regulators with pressure indicators shall be installed within 5 feet of termination of each drop and be easily accessible to the employee to monitor and adjust as needed.

3.7.4. Each regulator shall have a 5-micron filter with a polycarbonate bowl with a guard.

3.7.5. Piping shall be terminated at all workbenches and non-machine locations with a 3/8" quick disconnect coupling. An additional 1/2" quick disconnect coupling placed near the termination point shall be included.

3.7.6. Certain types of equipment require special air requirements (such as water and oil mist separators, micro-particle air filters, etc.), therefore, the Contractor shall provide air filtration that meet OEM specifications of that equipment. This requirement shall apply for new equipment.

3.7.7. The Contractor shall provide a blow off clean air gun with air for all new machining equipment. The length of the coil type hose used shall be long enough to reach the work envelope of the machine plus 3 feet. The nozzle shall be designed to deliver air and provide chip guarding that meet standards in Appendix C. Incoming air to the clean air blow gun shall not exceed 110 PSI. The contractor shall provide documentation that the nozzle meets standard. The material of the coil type hose shall be compatible with machine fluids and coolant.

3.7.8. The Contractor shall only use flex tubing for connecting a machine to a drop. The flex tubing shall be limited to 3 feet in length.

3.8. Leaks: The Contractor shall be responsible for cleaning up and repairing ALL leaks that occur during installation.

3.9. Water Service:

3.9.1. Potable Hot and Cold Water: The Contractor shall provide potable hot and cold-water service to locations as required and for equipment listed in this document as needed.

3.9.2. The Contractor shall be limited to 3 feet of flex tubing if required for connecting a machine to a drop.

3.9.3. Reverse Osmosis/De-Ionized (RO/DI) Water Service: The Contractor shall provide plumbing from The Contractor provided DI water system in the utility room, provide drops for equipment as required. The Contractor shall provide a suitable connection between the drop and the machine tank. The Contractor shall provide a manual valve before this connection point at an appropriate height. The plumbing and valve material shall be suitable for DI/RO water systems.

3.10. Communications (IT/Data) Installation: The Contractor shall be responsible for the installation of data drops to locations as required in section 3.2 and to equipment listed in this document. Telecommunications cables must be installed in cable trays and/or conduit. If no conduit or cable trays exist, the Contractor shall furnish and install cable tray or conduit to route to terminated ends.

3.10.1. The Contractor shall install/run 2 drops of category 6 cables for data via 2 port gang plates for each IT point:

- 1 IT point for each workbench smaller than 96", each computer workstation, each mini computer workstation, each desk, each VLM, each tool dispenser, each VLC, each CMM. This requirement shall exist for all stainless steel workstations.

- 1 IT point for every machine that has IT capability.
- 2 IT points for every 96" wide workstations
- 1 IT point for every visual board. The contractor shall provide the IT point near the area indicated in section 3.2. The contractor shall not run unistrut specifically for the visual board.
- For each additional IT point annotated in section 3.2.

3.10.2. Patch Panels: The Government will provide and install a limited quantity of patch panels in each of the floor IT cabinets. The Contractor shall supply enough patch panels to support the area designated to the cabinet. Patch panels shall be identical in model and make as currently used in Building 1700. Additional details pertaining to the Patch Panels will be provided in the Government Drawings.

3.10.3. Cables: The Contractor shall install IT cables through workbenches, desks or raceway/panduit to the nearest communications wall plate/plate termination in a clean and orderly fashion. The Contractor shall run cables in compliance with CCAD Standing Operating Procedure 25-10-IT-004.

3.10.4. Data Lines: The Contractor shall label each terminated end of the data line using appropriate nomenclature determined by the Government.

3.11. Pipes: The Contractor shall have all pipe runs properly supported as per industry standards. Pipe method of joining shall be threaded. Pipe dope may be used as sealant for threaded connections except where otherwise specified. Teflon tape shall be sealant utilized for RO piping. Pipe MOC and pipe schedules shall conform to industry standards for the industrial service application.

3.12. Valves: The Contractor shall have all valves conform to industry standards and be compatible with piping material. The Contractor shall have all pipe fittings conform to industry standards and match pipe material of construction utilized in the service.

3.13. Welds: The Contractor shall have all welds conform to the AWS standards.

3.14. Material Handling Equipment: The Contractor shall adhere to designated Building entries and paths for heavy equipment. When any machine, or component of a machine, exceeds the rated capacity of the cement slab, the contractor shall notify the Government if an alternate path is required before beginning any movement of the machine in the building. The contractor shall provide personnel for guiding material handling equipment through buildings.

3.15. All ventilation hoods, exhausts, facility supply line, utility supply lines, fire sprinkler lines or any other contractor installed equipment shall be located to not interfere with any mechanical operation of any device to include existing overhead cranes.

3.16. Inspections: All electrical, plumbing, and mechanical work shall be subject to frequent walk-through inspections by Government personnel (Facilities, Safety, TPOC, Environmental Engineers, Electrical Engineers, Electromechanical Technicians, Electricians, Construction Quality Engineers). The Contractor shall be responsible for any deficiencies noted that are not according to code or standards, whether listed in this document or not.

3.16.1. Inspections shall consist of

- Conformance to construction and industry standards, OEM installation instructions and to this document
- Overall system safety and ergonomics
- Utility installation devices (disconnects, wiring, circuit panels, transformers, unistrut, conduit)

3.16.2. Corrective Actions: After inspections, the Government will provide the Contractor code violations, if any, which will require corrective action. The Contractor shall have 5 days to provide the corrective action.

3.17. Equipment Installation: The Contractor shall install all equipment in accordance with OEM instructions. The OEM provided assembly instruction set shall be provided in the site preparation and installation plans. If floor anchoring provisions are available for any item, the Contractor shall anchor to the floor using only properly sized anchors as specified by the OEM.

3.17.1. The Contractor shall provide all new equipment and material, not refurbished, used, or rebuilt. This requirement includes system and sub-system components, computer hardware, piping and tubing, switches, pumps, etc.

3.17.2. Lockout/Tagout of Equipment: The Contractor shall provide and implement a lockout/tagout plan for equipment and provide locks and tags during installation of equipment.

3.17.3. Concrete Removal: If concrete removal is required for the installation of equipment, the Contractor shall submit a concrete demolition plan to the Government before engaging in concrete work. The plan shall address the procedures for controlling the creation of concrete dust. The plan shall be submitted as part of the Site Preparation and Installation Plan, as stated in section 5.1.

3.17.4. Equipment Size and Fitment: Overall size of any machine shall not exceed the area designated for that machine in the DCRF floor layout provided in section 3.2.

3.17.5. Ergonomic Designs: Equipment provided to the Government will be ergonomically designed for the operators to avoid or keep to a minimum operator awkward posture/positions, repetitive motion, force, undue stretching, compression/contact stresses, vibration, excessive temperatures, and maintaining any of these ergonomic risk factors for an extended period of time. The design shall incorporate operations and maintenance tasks under both normal and emergency situations.

3.17.6. NFPA Standards: The Contractor shall abide by NFPA standards for all equipment designs/installations and provide fire protection as required. The extinguishing media and installation method for the media shall be included in the product drawings for that machine.

3.17.7. Suitable Fire Extinguishing Media for Equipment: The Contractor shall provide CO<sub>2</sub> systems (carbon dioxide) as the primary means of protection when an extinguishing media is dictated by NFPA. The contractor shall provide yearly inspections, by certified personnel, until the period of performance ends. If CO<sub>2</sub> systems are not a suitable extinguishing media as listed in the SDS for that chemical used in the machine, the contractor shall provide an alternate system as listed in the SDS.

3.17.8. Fire Extinguishing Media Installation: The Contractor shall install the media so that it does not interfere with machine or aircraft part movements. The installation shall allow easy access to media components for inspections and maintenance.

3.18. Roof Penetrations, Vents, and Ducting: Building 1700.3 will have roof penetrations available. The Contractor shall plumb equipment that requires exhausts to outside air via building roof penetrations that will be available near exhausts sites. Under no circumstances shall the Contractor penetrate the roof without authorization from the KO. If other roof penetrations are required, the Contractor shall submit a request to the KO. Connections to the existing roof penetrations shall be waterproof and leak free. The Contractor shall demonstrate that connections to roof penetrations and ducting are leak free as part of the installed machines' test plan. The exhaust sites are designated in section 3.2.

3.19. Exhaust Stacks: Exhaust stacks and ducting shall be designed, and anchored meeting manufactures installation and code requirements. The Contractor shall maximize exhaust flow by utilizing straight duct designs. The sharpest duct bend angle allowed shall be 45 degrees. Material of all ducting shall be suitable for the application or stainless steel, whichever provides the most protection. No plastic or flex tubing shall be allowed. Ducting attachment points to floor equipment shall be easy to remove and reinstall for equipment maintenance. The Contractor shall provide an instruction set for removing and re-installation of ducting in the installed machines'

product drawings for new equipment. For new ovens, the contractor shall only provide the plumbing drawings as requested in this document.

3.20. Roof Exhaust Fans: The Contractor shall provide exhaust fans rated for the equipment and area supported as stated. The Contractor shall provide fans that have an upward gas dispersion method unless a method is specified by a standard or a code. The Contractor shall provide fans and vents that are designed and constructed for outside service with exposed areas painted except for stainless steel. Paint shall be rated for outdoor environments. The capacity of the exhaust fans shall be rated for a smooth and balanced air flow from the machine exhaust to outside air. The Contractor shall provide calculations for each exhaust fan in the installed machines' product drawings.

3.21. Eyewashes, Eyewash/Shower Combinations and Sinks: The building shall be furnished with all eyewashes, eyewash/shower combinations and sinks with plumbing provided to each unit. The Contractor shall be responsible for re-plumbing and re-routing these water lines to meet the utility distribution design requirements and the below requirements. The Contractor shall provide all additional piping required for re-routing and shall have the option to utilize existing pipe material. The Contractor shall ensure that all plumbing routes and pipe, whether existing or re-routed, shall:

- Not interfere with crane coverage or shop floor space
- Not cross aisle ways
- Utilize building columns and utility Unistrut pathways to the maximum extent possible

3.22. Original Site Preparation: The Contractor shall provide all materials required for the original site preparation such as cones, barriers, temporary fencing, tarps, guards, shielding and canopies. If grinding is necessary for the removal of the equipment, the contractor shall provide adequate protection to contractor personnel, Government personnel and property by using appropriate guarding and shielding materials. The Contractor shall detail the plan in the Site Preparation Plan.

3.23. Original Site Cement Floor Protection: The Contractor shall ensure that protection for the floor near and around the machine area is adequate to support contractor provided rigging equipment. The contractor shall utilize equipment and practices that will not scuff, scrape, rip or break the cement floor. The Contractor shall provide the floor protection plan in the Original Site Preparation and Disassembly plan. The Contractor shall be responsible for any floor damage caused due to relocation activities.

3.24. New Equipment Installation: The Contractor shall provide installation for all equipment listed in the 'New equipment' table within the designated shops.

3.24.1. New Equipment Installation Schedule: The Contractor shall install all new equipment, to include implementation of test plans and items associated with the new equipment one (1) year after BOD. In the case where the BOD is extended, the Contractor shall still be allowed 1 year to install equipment. This requirement shall apply to new equipment (unistrut, disconnects, transformers, piping, IT). The following items are excluded from the 1 year after BOD requirement: MPI Machines, Roller System with MPI Substations, and MPI Curtain Enclosure.

3.24.2. New Equipment Coordination: The Contractor shall coordinate all equipment with the technical POC. Prior to installation of each machine, the Contractor shall review, with Government personnel, the Original Site Preparation Plan for that machine that contains all elements of section 4.3.3. and the site preparation and installation plan for DCRF.

3.24.3. The Contractor shall provide projected durations for the transportation and installation for each equipment item listed in this document. The Contractor shall provide the duration in the Site Installation Plans no later than 1 month after contract award. The Government will use these timelines to establish shop shutdown activities and moves accordingly.

3.24.4. Transportation: The Contractor shall provide all material handling and rigging equipment and transportation of equipment from original site to DCRF. New equipment that uses any type of fluid (machine oil, coolant, water, etc.) shall be wrapped in its entirety using Visqueen or a similar oil resistant material prior to transporting to prevent any hazardous material from spilling. If spillage occurs during transport, whether inside or

outside a building, the contractor shall contain the spill and provide clean-up using Government approved methods and approved materials. The Contractor shall provide a planned route through the site buildings and DCRF that the material handling equipment will take to transport new equipment. The planned routes shall be identified in the Site Preparation and Installation Plan.

3.24.5. Equipment Sub-Components: These individual items are not listed specifically in the 'New Equipment List', however they provide critical functions of machine operation and cannot operate without them. Examples of associated external components are: filtrations systems, hydraulic systems, pumps, control and cooling cabinets, chiller systems, calibration instruments, workstations, power cabinets, tooling cabinets, etc. All equipment and sub-components to be installed shall be identified by the contractor in the original site preparation and installation plan.

3.24.6. Equipment Cleanup: The Contractor shall be responsible for cleaning, using best practices, the exterior of the machine and any area that requires component removal for installation. The Contractor shall not be responsible for cleaning internal, production work envelopes. The contractor shall not remove equipment components specifically for cleaning if removal of component is not necessary. The contractor shall clean around equipment components and structures that are not removed.

3.25. Original Site Utility Terminations for New Equipment:

3.25.1. Utility Preparation for New Equipment Items for DCRF: The Contractor shall be responsible for providing utilities to all equipment listed in the 'New equipment' table within the designated shops. The equipment specifications provided for new equipment in this document are approximations; therefore, it is the contractor's responsibility to verify power requirements, utility requirements (compressed air, RO/DI water, potable water, etc.) and plumbing locations. The contractor shall be responsible for contacting the OEM of equipment if utility requirements are unknown or perform site visits to gather related information. The contractor shall not install any equipment until utilities have been prepared for that specific machine.

3.25.2. Sub-Components for New Equipment: These individual items are not listed specifically, however they provide critical functions of machine operation and cannot operate without them. Examples of associated external components are: filtration systems, hydraulic systems, pumps, control and cooling cabinets, chiller systems, mist collectors. The contractor shall be responsible for providing utilities to these sub-components.

3.25.3. Once the Contractor commences with disassembly for new equipment, the Contractor shall be responsible for damage that occurs during any activity through Government acceptance.

3.25.4. Protection of New Equipment: The Contractor shall provide maximum protection against harm and damage to all equipment. The contractor shall provide the protection methods in the Original Site Preparation and Disassembly Plan for each machine when requested in this document. The contractor shall:

- Protect machine sides from scratches and indentations
- Allow for adequate machine component spacing when transporting equipment
- Use proper machine lift points and rigging devices
- Use properly sized straps when transporting equipment
- Use OEM prescribed:
  - Disassembly procedures
  - Transportation methods
  - Installation and start up procedures

3.25.5. Adherence to Protection of Equipment: The Government will inspect for damage all equipment that is installed in DCRF.

3.26. Fire Protection Installation: The Contractor shall provide fire protection in the NDI area and equipment required to have fire protection systems. The fire protection installation shall include all sub-areas within the enclosures. All fire protection design and work shall be in accordance with standards in Appendix C and NFPA

regulations. All fire protection designs, work and testing shall be completed by a licensed, fire suppression Contractor.

3.26.1. Fire Sprinklers: The Contractor shall determine whether the areas that utilize fire protection require a wet or dry fire sprinkler system dependent on the application of the area. The Contractor shall tap into the building fire suppression system as specified in section 3.2. Prior to fire sprinkler installation, the contractor shall submit an all-encompassing fire sprinkler design drawing, as stated in Section 5.7.3. The fire sprinkler design drawing shall include fire sprinkler head locations, pipe size and length, material selection, product descriptions and calculations. The sprinkler installation plan must be approved prior to starting any fire protection work. The operation of the system shall be tested and verified in conjunction with CCAD and Navy fire protection personnel who have ultimate authority on fire protection. The contractor shall be responsible for any deficiencies noted or necessary corrections identified. The Contractor shall provide a test plan, as stated in Section 4.4, prior to testing the system. All piping used for fire sprinklers shall be red and clearly labeled.

3.26.2. Fire Alarm Strobe/Horn/Sense System: The Fire Alarm Strobe/Horn/Sense System shall be installed in the required areas. The system shall be tied into the building host fire alarm system. The contractor shall submit a fire alarm strobe/horn/sense system design drawing and one-line electrical drawing, as stated in Section 5.7.4. The fire protection plan must be approved prior to starting any fire protection work. The operation of this system must be tested and verified in conjunction with CCAD and Navy fire protection personnel. The Navy fire protection personnel have ultimate authority on fire protection. Prior to Government acceptance, the contractor shall be responsible for any deficiencies noted and necessary corrections. The contractor shall provide a test plan, as stated in Section 4.5, prior to testing the system. The contractor shall provide a final fire alarm strobe/horn system design drawing and one line electrical diagram once the system is complete.

3.26.3. The Contractor and any fire suppression subcontractors shall be present during all installation and testing of any part of the fire protection system.

3.26.4. All fire protection equipment (sprinkler heads, strobes, horns, controllers, etc.) shall be of the same specification and manufacture as used in section 3.2.1.

3.27. Release for Production of New Equipment: If the release for production of any new machine occurs during the Contractor's period of performance, the Contractor, or a representative, shall be present for the duration of the practical and shall be limited to answering specific questions about the machine.

3.28. Equipment Installation Inspection: A thorough review of the machine's installation area with Government personnel from the safety and facilities office shall be conducted with the contractor present.

#### 4. Testing and Acceptance

4.1. Equipment Test Plans: The Contractor shall provide individual test plans, as in this SOW, for each piece of equipment and shall include testing of safety systems of the machine for both new equipment. For new equipment, the test plan shall verify that all specifications for the machine are met. The Contractor may combine test plans for like equipment; however, the Contractor shall implement the test plan for each machine. Test Plans shall be in accordance with DI-NDTI-80566A Test Plan, CDRL A003.

4.1.1. The Contractor shall provide test plans for Government review prior to implementing the test plan. The Government will have 10 days to review and submit with comments. The Contractor shall have 5 days to review the comments, update and re-submit a new test plan. The time duration shall apply for every iteration of submissions.

4.1.2. The Contractor shall implement the test plan in its entirety. If any part of the testing process fails, the Contractor shall remediate the issue and perform the test plan from the beginning. The Contractor shall notify the Government of any failed test plans and remediation efforts in the Monthly Status Report. Monthly Status Reports shall be in accordance with DI-MGMT-80368A Monthly Status Report, CDRL A004.

4.1.3. For new equipment that does not require test plans, the Contractor shall demonstrate full functionality alongside Government personnel.

4.1.4. Turn Up and Testing of New Equipment: The Contractor shall be responsible for turning on all new equipment, to include sub-components, after installation. When test plans are not required for new equipment, the contractor shall be responsible for:

- Performing functional checks and inspections alongside Government personnel which will also include:
  - o DMWR related functions and operations on live aircraft parts
  - o Running sample tests
  - o Checks for machine tolerances and accuracies
  - o Sub-system operations and checks
- Resolve any issues that arise after installation prior to Government acceptance

4.2. Communications Test Plan: The Contractor shall provide an IT Communications Test Plan that verifies connectivity and the installation of IT equipment and cabling is in accordance with CCAD Standing Operating Procedure 25-IT-004 and industry standards. The length of each drop to the IT cabinet shall also be provided in the test plan results. The Telecommunication requirements are detailed in section 3.10. Telecommunications Test Plan shall be submitted to the Government for review 60 days prior to install of equipment. The Communications Test Plan shall be in accordance with DI-NDTI-80566A Test Plan, CDRL A003.

4.3. Fire Sprinkler Test Plan: The Contractor shall provide a Fire Sprinkler Test Plan prior to testing the system. The operation of the system shall be tested and verified in conjunction with CCAD and Navy fire protection personnel who have ultimate authority on fire protection. The Contractor shall be responsible for any deficiencies noted or necessary corrections identified. The Fire Sprinkler Test Plan shall be submitted to the Government for review 60 days prior to testing the systems. The Fire Sprinkler Test Plan shall be in accordance with DI-NDTI-80566A Test Plan, CDRL A003.

4.4. Fire Alarm Strobe/Horn/Sense System Test Plan: The Contractor shall provide a Fire Alarm Strobe/Horn/Sense System Test Plan prior to testing the system. The operation of the Fire Alarm Strobe/Horn/Sense System must be tested and verified in conjunction with CCAD and Navy fire protection personnel. The Navy fire protection personnel have ultimate authority on fire protection. Prior to Government acceptance, the Contractor shall be responsible for any deficiencies noted and necessary corrections. The Fire Alarm Strobe/Horn/Sense System Test Plan shall be in accordance with DI-NDTI-80566A Test Plan, CDRL A003.

4.5. Network Connectivity Test: The Contractor shall perform a network connectivity test and provide verification that the machine is network capable and ready prior to acceptance. Network Connectivity Test shall be in accordance with DI-NDTI-80566A Test Plan, CDRL A003.

4.6. Acceptance:

4.6.1. Government acceptance of new equipment shall occur once the following occurs:

- All spare parts, tooling, fixtures are provided
- All technical data and supporting documentation for the machine has been provided
- Successful implementation of the Government reviewed test plan in its entirety has occurred
- Equipment is functional and located in the proper location as indicated in the building shop floor layout
- Training is completed
- Government inspection of the equipment utility installation

4.6.2. Government acceptance of shop areas shall only occur when:

- All purchased equipment has been accepted
- All utilities and IT drops are provided in accordance with section 3.2.
- Equipment test plans have been completed
- Shop ancillary equipment has been installed in designated areas
- Shop areas are inspected by the safety and facilities inspection team

## 5. Deliverables

5.1. Site Preparation and Installation Plan: The Contractor shall provide a Site Preparation Requirements and Installation Plan for equipment prior to starting installation work. The Government will review and provide comments. The Contractor shall incorporate Government comments into the plan. The Contractor may elect to create an overarching plan for like machines. The Contractor shall submit the Site Preparation and Installation Plan 60 days prior to installation. Site Preparation and Installation Plan shall be in accordance with DI-MGMT-8003A Site Preparation and Installation Plan, CDRL A002.

5.2. Project Planning Chart: The Contractor shall submit an initial project plan within 30 days of contract award which outlines all tasks and durations related to the implementation of this contract. The Contractor shall provide an updated project plan every month along with the monthly status reports. The Government will review, provide feedback and accept the project plan monthly. The Government will use this plan for planning Government activities such as scheduling release for productions, preparing for shop equipment, machine fluid procurements, personnel preparations, etc. The project plan shall be compatible with Microsoft Office Project 2013. The Project Planning Chart shall be in accordance with DI-MGMT-80507C, Project Planning Chart, CDRL A005.

5.2.1. Project Plan Tasks for New Equipment: The Contractor shall include in the project plan – preliminary design reviews, equipment and utility design documents delivery, individual equipment installations listed in section 2. and expected implementation of test plans.

5.2.2. The Contractor shall include tracking of all areas listed in section 2. and the installed equipment within the area.

5.2.3. Project Plan Implementation Surveillance for New Equipment: The equipment installation task start and end dates for base year items, months 1 through 12, shall be fixed within 3 months of contract award. The installation task start and end dates for the 2nd year, months 13 to 24, shall be fixed 10 months after contract award. The installation task start and end dates for the 3rd year, months 25 to 36, shall be fixed 15 months after award. Once dates are fixed, the Contractor shall not change increase start and end installation task dates by more than 40 business days. This performance requirement shall only apply to new equipment installations. In the case of Building Occupancy Dates (BOD) shifts, the contractor shall be allowed to change start and end dates by the same amount the BOD shifts for base year tasks only.

5.3. Status Report: The Contractor shall submit the status report to account for all contract activities to include an executive summary highlighting significant completions, technical challenges, obstacles, failures and issues of concern. Status reports shall be due by the 5th day of each month. The Status Report shall be in accordance with DI-MGMT-80368A, Monthly Status Reports, CDRL A004.

5.4. Real Property Facilities As-Built Drawings: The Contractor shall maintain an as-built drawing of the shop floor layout. The format of the shop floor layout shall be compatible with AutoCAD 2016 or newer. The contents of the initial shop floor layout provided as GFI shall be used and edited. The contractor shall update the drawing and include any changes in equipment information such as equipment location, facility drops, IT drops, power requirements, etc. The Contractor shall add the fire sprinkler and RO/DI water main trunk piping routes in this drawing. If the Contractor requires new locations for equipment or deviations from the shop layout are needed, the Government will review the new criteria and either reject or accept the new requirements. The Contractor shall submit the first as-built drawing after contract award when installation of the equipment begins. The Contractor shall provide updated layouts semi-annually (starting either January 1 or July 1: whichever day comes first after installation commences) attached to the status report due that month. The Real Property Facilities As-Built Drawings shall be in accordance with DI-MISC-81489A, Real Property Facilities As-Built Drawings, CDRL A006.

5.4.1. The Contractor shall provide individual CAD 3D files of the following new equipment: CNC machines (grinders, lathes and mills), manual machines (grinders, lathes, mills), bearing enclosure, paint enclosure, roller systems, ovens, tumblers.

5.5. Facilities Requirements Document (FRD): The Contractor shall maintain a spreadsheet that contains a list of new equipment and the utility installation requirements the equipment requires. The spreadsheet shall contain: voltage, current, power, water (RO, chilled, hot), air pressure and CFM, and any other utility requirement. If the equipment has multiple sub-systems that require separate utilities, the contractor shall provide separate line items for each sub-system. The Contractor shall exclude the following items: paint guns, worktables and any item that does not require facilities. For multiple identical machines, the contractor shall have one entry per machine. The contractor shall submit this list quarterly (starting January 1, April 1, July 1 or October 1: whichever day comes first after contract award) attached to the status report due that month. The FRD shall be in accordance with DI-MGMT-81836, Facilities Requirements Document (FRD), CDRL A007.

5.6. Preliminary Design Reviews (PDRs): The Contractor shall conduct PDRs with Government personnel to analyze and review equipment and shop design proposals prior to equipment procurement. The Contractor may elect to group together like equipment discussions for the purpose of reducing the quantity of design reviews. The Contractor shall provide the Government read ahead material, specifications and proposals at least 5 days prior to hosting reviews. The Contractor shall PDR minutes to the TPOC for each design review within 2 working days of the review. PDRs shall be in accordance with DI-ADMN-81250B Conference Minutes, CDRL A008.

5.6.1. PDR's are required for the following: MPI lines and Solvent Booths.

5.6.2. The Contractor shall initiate a PDR in accordance with the following schedule for each machine or like groups of machines:

- 0% to 25% design
- 100% design
- For any other reason the contractor identifies such as design changes, requirements change, etc.
- Government reviews and acceptance for any product, design, specification or document does not negate the contractor's ultimate responsibility for meeting standards, codes, regulatory agency requirements and the requirements stated in this document.

5.6.3. MPI lines and Solvent Booths PDR discussions, but not limited to:

- 0% to 25% design review topics:
  - Individual booths/machines design
  - Electrical/lighting/operation control systems
  - Utility design and usage
  - Fire protection
- 100% design review topics:
  - Integration plan of production line
  - Installation
  - Tentative test plan

5.6.4. The Contractor may exercise teleconferenced design reviews in lieu of a local design review when the Government deems it practical. If the contractor exercises teleconferenced design reviews, the contractor shall be required to provide read ahead material in the time frame stated. The contractor shall still be required to provide meeting minutes.

5.7. Drawings:

5.7.1. Utility Distribution Designs and Utility Design Drawings: The Contractor shall have a practicing; licensed professional engineer creates and stamps the Utility Distribution Designs and Utility Design Drawings. All designs shall be in accordance all applicable codes UFC codes. The Contractor shall provide the utility drawing with all equipment and shop floor areas represented in the drawing. The utility drawing also shall demonstrate all utility connections for the MPI. Utility distribution shall extend to the utility room. The Contractor shall provide labeling of Contractor installed city water, chilled water, hot water, DI/RO water, air, vacuum, steam, and fire suppression

service pipes that indicate service provided and direction of flow of material within the pipe. The labels shall be clearly visible from the floor. The Contractor shall provide the utility design drawings with all cranes/bridges/rails and crane coverage represented in the utility drawings. All drawings shall be submitted to the Government for review in an electronic and hard copy format. The Government will review and provide comments within 30 working days of submittal. The Contractor shall resubmit the reviewed drawings, with Government comments addressed, within 30 working days. On-site installation shall begin only after Government review and acceptance of drawings. Utility Distribution Designs and Utility Design Drawings shall be in accordance with DI-SESS-81000E Product Drawings/Models and Associated Lists, CDRL A001.

5.7.2. IT Patch Panel Product Drawings: The Contractor shall provide IT Patch Panel Product Drawings in accordance with DI-SESS-81000E Product Drawings/Models and Associated Lists, CDRL A001.

5.7.3. Hazardous Waste Fence Drawing: The Contractor shall provide a Hazardous Waste Fence Drawing in accordance with DI-SESS-81000E Product Drawings/Models and Associated Lists, CDRL A001, for Government review prior to beginning installation. The Drawing shall include grounding and bonding requirements.

5.7.4. Heavy Duty Wire Shelving Drawing: The Contractor shall provide a Heavy Duty Wire Shelving product drawings/models and associated lists, in accordance with DI-SESS-81000E Product Drawings/Models and Associated Lists, CDRL A001, prior to procurement for Government review.

5.7.5. RO/DI Water System Drawing: The Contractor shall provide a RO/DI Water System product drawings/models and associated lists, in accordance with DI-SESS-81000E Product Drawings/Models and Associated Lists, (CDRL A001). If wall penetrations are required, the Contractor shall provide a RO/DI Water System Test Plan, in accordance with DI-NDTI-80566A Test Plan, CDRL A003.

5.7.6. Bollard Drawing: The Contractor shall provide a Bollard drawings/models and associated lists, in accordance with DI-SESS-81000E Product Drawings/Models and Associated Lists, CDRL A001.

5.7.7. Fire Sprinkler Design Drawing: The Contractor shall provide a Fire Sprinkler Design Drawing to include fire sprinkler head locations, pipe size and length, material selection, product descriptions and calculations. The Fire Sprinkler Design Drawing must be approved prior to starting any fire protection work. Fire Sprinkler Design Drawing shall be in accordance with DI-SESS-81000E Product Drawings/Models and Associated Lists, CDRL A001.

5.7.8. Fire Alarm Strobe/Horn/Sense System Design Drawing and One-Line Electrical Drawing: The Contractor shall submit a Fire Alarm Strobe/Horn/Sense System Design Drawing and One-Line Electrical Drawing, which illustrates the fire alarm strobe/horn system locations, materials, products and electrical calculations. The Drawings must be approved prior to starting any fire protection work. The Contractor shall provide a final fire alarm strobe/horn system design drawing and one line electrical diagram 30 days prior to the installation of the Fire Alarm System. The Fire Alarm Strobe/Horn/Sense System Design Drawing and One-Line Electrical Drawing shall be in accordance with DI-SESS-81000E Product Drawings/Models and Associated Lists, CDRL A001.

5.8. Machine Specific Software: The Contractor shall provide a computer software product list for each machine that requires specialized software to operate the machine. The software product list shall contain names of all routines, control programs, option add-ons and plugins, operating systems, with a full description and purpose of each item that is provided with the machine. When the design of the equipment is complete, the software product list shall be submitted to government for review and acceptance.

5.9. PLC Program: The Contractor shall provide a hard copy of the PLC program and provide it with the operations manual for each machine. The Contractor shall submit PLC program prior to the completion of equipment design.

5.10. Equipment Technical Manuals: The Contractor shall provide complete technical manuals when requested throughout this document. The Contractor shall provide manuals for Government review and acceptance. The Government will review and provide a response within 20 days. The Contractor will have 20 days to resubmit after

receipt of Government comments. The time duration shall apply for every iteration of submission. The Contractor shall submit technical manuals prior to the completion of equipment installation or prior to the start of training. Equipment Technical Manuals shall be in accordance with DI-TMSS-81675A Equipment Technical Manual (Sanitized), CDRL A009.

5.10.1. Roller System w/ MPI Substations Technical Manual: The Contractor shall provide Roller System w/ MPI Substations Technical Manual prior to acceptance of equipment , in accordance with DI-TMSS-81675A Equipment Technical Manual (Sanitized), CDRL A009. Topics shall include:

- A thorough overview of the machine functions and operations
- Machine setup
- Safety features and interlocks, review of pinch points
- Part preparation
- Alarms and indicators review
- Operator panel overview
- Loading and unloading parts procedures
- Review of maintenance requirements
- Review of consumables and procedures for maintenance tasks
- Piping layout and identification
- Review of PLC program
- Fluid transfers into and out of tanks when applicable
- Troubleshooting procedures

5.10.2. RO/DI Water System Equipment Technical Manual: The Contractor shall provide a RO/DI Water System Equipment Technical Manual prior to acceptance of equipment, in accordance with DI-TMSS-81675A Equipment Technical Manual (Sanitized), CDRL A009.

5.11. Warranty: The Contractor shall provide a 1-year manufacturer's warranty for all new equipment unless otherwise stated specifically in this document. The warranty shall cover parts and labor.

5.11.1. MPI Machine Large – The Contractor shall provide a 3-year manufacturing warranty on parts and labor.

5.12. Calibration Certificates: The Contractor shall provide calibration certificates of the equipment. Procedures for calibration for each machine shall be provided in the technical manuals provided by the Contractor. Calibration Certificates are required for all new systems. The Contractor shall provide OEM documentation that the equipment meets the original equipment specifications after installation. Calibration Certificates shall be in accordance with DI-QCIC-80798C Calibration Certificate, CDRL A010.

5.13. Additional Deliverables

<u>Deliverable</u>	<u>Frequency</u>	<u># of Copies</u>	<u>Medium/Format</u>	<u>Submit To</u>
Installation Pass Log (12.2)	Initial within 3-calendar days and updates within 5-calendar days	1	Hard copy or electronic)	TPOC
Individual Termination or Expiration of employment (para 12.3.)	Within 3-working days	N/A	Access passes	TPOC or issuing office
Contract Termination or cancellation (para 12.4.)	Within 3-working days	N/A	Access passes	TPOC or issuing office
Contractor workspace signage, identification procedures (para 12.6.)	Within 10 calendar days after contract award	1	Hard copy or electronic)	TPOC
Anti-Terrorism (AT) Level I Training (para. 12.8.1.)	Within 30-calendar days and annually thereafter	1	Hard copy or electronic)	TPOC

<u>Deliverable</u>	<u>Frequency</u>	<u># of Copies</u>	<u>Medium/Format</u>	<u>Submit To</u>
OPSEC Level 1 Training (para. 12.8.2.)	Within 30-calendar days and annually thereafter	1	Hard copy or electronic)	TPOC
iWATCH Training (para. 12.8.3.)	Within 30-calendar days of contract award and within 5-business days for new employees	One	Hard copy or electronic)	TPOC

## 5.14. CDRL Listing

CDRL	DID Number	DID Name	SOW Paragraph
A001	DI-SESS-81000E	Product Drawings/Models and Associated Lists	2.4., 2.5., 2.5.2., 5.7.1., 5.7.2., 5.7.3., 5.7.4., 5.7.5, 5.7.6., 5.7.7., 5.7.8.
A002	DI-MGMT-8003A	Site Preparation and Installation Plan	3.2.4., 5.1.
A003	DI-NDTI-80566A	Test Plan	4.1, 4.2., 4.3., 4.4., 4.5., 5.7.5.
A004	DI-MGMT-80368A	Monthly Status Report	4.1.2., 5.3.
A005	DI-MGMT-80507C	Project Planning Chart	5.2.
A006	DI-MISC-81489A	Real Property Facilities As-Built Drawings	5.7.5.
A007	DI-MGMT-81836	Facilities Requirements Document	5.5.
A008	DI-ADMN-81250B	Conference Minutes	5.6., 9.3.
A009	DI-TMSS-81675A	Equipment Technical Manual (Sanitized)	5.10., 5.10.1., 5.10.2.
A010	DI-QCIC-80798C	Calibration Certificate	5.12.
A011	DI-MGMT-80033A	Hazard, Safety and Occupational Plan	9.14., 9.19.1, 10.3
A012	DI-SAFT-80106C	Health Hazard Assessment Report (HHAR)	9.19.3.
A013	DI-MGMT-81954	Licenses and Certifications	10.3.

## 6. Training:

6.1. MPI Machine (2.2.4. and 2.2.5.): The Contractor shall provide at least 4 hours of on-site training for 2 to 3 personnel for one MPI machine. Topics shall include:

- A thorough overview of the machine functions and operations
- Machine setup
- Safety features and interlocks, review of pinch points
- Calibration procedures
- Part preparation
- Barcode scanner and screen menus and operation
- Document archiving, saving, purging and recall functions
- Alarms and indicators review
- Operator panel overview
- Loading and unloading parts procedures
- Review of maintenance requirements
- Review of consumables and procedures for maintenance tasks
  - Air filters (if required)
  - Troubleshooting procedures

6.2. Roller System w/ MPI Substations (2.2.9): The Contractor shall provide at least 2 hours of on-site training for 2 to 3 personnel for each type of MPI sub-station. Topics shall include:

- A thorough overview of the machine functions and operations
- Machine setup
- Safety features and interlocks, review of pinch points
- Part preparation
- Alarms and indicators review
- Operator panel overview
- Loading and unloading parts procedures
- Review of maintenance requirements
- Review of consumables and procedures for maintenance tasks
- Piping layout and identification
- Review of PLC program
- Fluid transfers into and out of tanks when applicable
- Troubleshooting procedures

6.3. Utility Room (2.5): The Contractor shall provide 2 hours of training to 3 to 4 Government personnel. Topics of the training shall be, but not limited to:

- Theory of operations
- Review of system features
- Filter and cartridge replacement procedures
- Faults, monitoring and indicators review
- Lock-out and tag-out procedures
- Review of electrical and process drawings
- Port locations for pulling samples
- PM frequencies and tasks
- Locations of bypass valves for flushing
- Flushing procedures
- Main trunk location and valve identification
- Spare parts review

## 7. Marking, Nameplate, and Identification

7.1. Marking: the system shall be marked in accordance with MIL-STD-130, identification marking of us military property. This requirement shall be implemented for equipment and systems valued greater than \$5000.

7.2. Nameplate: a corrosion-resistant nameplate shall be securely attached to the equipment. If the equipment is a special model, the model designation shall include the model of the basic standard item and a suffix identified in the manufacturer's permanent records. As a minimum, the name plate shall provide all information listed below. The captions may be shortened or abbreviated, provided the entry for each caption is clear as to its identity.

- Type
- Size
- Nomenclature
- Manufacturer's name
- Manufacturer's model number
- Manufacturer's serial number
- Date of manufacture
- Contractor number
- Power characteristic and rating

- Federal stock number or plant equipment code.
- US
- Date of manufacture
- Electrical power requirements

7.3. Identification plate: a separate identification plate of corrosion resistant metal shall be securely attached to each machine. The plate shall be permanent and legible, marked in letters 3/16" high with the caption "department or activity identification" and shall provide a blank space for the Government to stamp 25 characters of the same size. The plate shall be installed on the front side in a visible location, if the front side cannot be established then the plate shall be installed in a visible location.

## 8. IT and Industrial System Requirements

8.1. Physical environment specifications: any equipment provided shall be able to operate in the environment it will be placed within. Temperature, humidity, and the use of harsh chemicals or liquids in designated installation areas may dictate the use of appropriate NEMA rated enclosures and certified equipment. These same conditions will dictate the use of rugged peripheral equipment. Cabinets containing "industrial computer systems" shall meet with the following specifications: they shall maintain an average maximum internal operating temperature of less than 95 degrees Fahrenheit with a sustained average external temperature of up to 115 degrees Fahrenheit. The cabinets shall also provide for a maximum internal average humidity of 80% when the external average humidity is 98%.

8.2. Computer hardware specifications: all modified industrial computer systems installed at CCAD must be connected to and communicate through the Industrial Local Area Network (ILAN). Standard desktop industrial computer systems will be provided by the CCAD. If CCAD is providing the computer systems, the contractor shall provide CCAD IT with a detailed list of required equipment specifications. CCAD will use these specifications to determine whether the use of a standard system is feasible. When CCAD cannot provide the required hardware (e.g., rack mounted and integrated systems) the contractor shall provide them. If the contractor is providing the computer systems, they must meet the following minimum requirements:

- Intel Core I5-5675C or better
- System clock speed must be 3.3 GHZ or better
- Random access memory must be 16 GB or better (1dimm)
- Windows aero-capable graphics card with 1 GB VRAM
- 500gb SATA drive with 16 MB cache
- DVD-RW/CD-RW
- RJ-45 and wireless capable Network Interface Card (NIC)

8.3. Peripheral equipment will be capable of generating data output onto a dedicated computer system through either a standard serial cable connection (e.g., USB, RS-232) or an ethernet connection. If an ethernet connection is used to interconnect a dedicated computer to peripheral equipment, the contractor shall supply an extra NIC. The NIC must have an RJ-45 port to allow an American National Safety Institute (ANSI) standard 802.3, 100BASE-T, or an IEEE 802.3AH, 1000BASE-T ethernet connection which supports the full Transmission Control Protocol/Internet Protocol (TCP/IP) stack implemented by firmware.

8.4. Operating System (OS) Specifications: The OS must be Microsoft Windows 10 or higher, Any OS supplied with the system must contain all necessary service packs, updated patches, and hot fixes.

8.5. Army Gold Master: The Army Golden Master (AGM) is a collection of security settings for Microsoft operating systems that must be applied to all army computer systems. The AGM will be supplied to the contractor by CCAD. The contractor is responsible for the installation of the AGM and ensuring its software runs as intended.

8.6. System Software Specifications: Industrial systems are required to interact with other network resources. These systems shall be capable of connecting to and communicating through a windows-based network and must

operate using domain-level user accounts through active-directory. All supplied software must be capable of operating in a multi-user environment and data which contains permissions information shall be hidden from view and inaccessible to those with less than administrator level access. Shared accounts shall not be used, and users shall only be authorized the minimum-security rights to operate the application software. Users will not have access to system or software configuration items (e.g., control panel, software, and hardware installation). Under no circumstances will the intended end user log in using the administrator or root account for routine operation of the equipment. The use of these accounts will be restricted to only administrative activities which will be carried out by CCAD information technology personnel. All software products shall employ a minimum of three permission-based levels of access:

- Administrator - full control at root level, restricted to CCAD IT personnel and when required, the contractor or vendor
- Maintenance - mid-level control required to perform maintenance and alter control parameters as needed
- Operator - minimum control necessary to perform the routine operation of software. The operator shall not be able to alter the programming of software, make changes to executable files, or modify control parameters

8.7. Software Installations: Any application code installed at CCAD must be installed in a standard container (i.e., program files) and be in a volume separate from the standard system files. Interactive applications are required to run as services and daemons and any time web services are used, file types (e.g., xml, html) must be separated.

8.8. Software Licensing: All licensing for computers, control units e.g., programmable logic controllers, or other IT systems will be surrendered to the information technology configuration manager and will become the property of the Government upon acceptance of the system.

8.9. If applications such as MacAfee anti-virus or any other application will interfere with the operation of the system, then a written statement must be provided to the CCAD IT directorate explaining the technical restrictions.

8.10. Prior to acceptance, if the software has been customized for CCAD's use or is other than commercial off the shelf (COTS); the contractor shall provide copies of all source code, firmware and software used in the system, as well as one set of backup and configuration software for PLC's, control and communication computers, and data acquisition. All programs shall have been tested and fully operational.

8.11. If any special programming software or programming software interface devices (such as hardware "keys", dongles or "pic" modules) were required to access software, these programs and devices shall be included along with necessary registration information. If custom application software was written and provided, a copy of the required compiler and compiler license shall be provided as well. At acceptance, all these items shall become property of the Government. Any software or hardware purchased for this project shall be registered to commander, CCAD, Corpus Christi, Texas 78419.

8.12. Certificate of Networkiness (CON). Net worthiness certification ensures Automated Information Systems (AIS) utilizing the Army network are developed in compliance with the Clinger Cohen Act and are secure, supportable, sustainable, and compatible with the Army Enterprise Infrastructure (AEI) (as defined in AR 25-1). All new AIS capabilities and all capability modifications and upgrades must be assessed to validate their net worthiness (network security, network impact, compatibility with the infrastructure, infrastructure requirements, spectrum support, security policy compliance, JTA-A standards compliance, communications and information manpower, training, logistics support, schedule, and funding). The contractor shall work with CCAD IT department personnel to ensure a certificate of networkiness is requested and all documentation is submitted.

8.13. PLC's: Any PLC installed at CCAD must provide an ethernet connection to allow for connection to the industrial network. If an ethernet connection is used to interconnect the PLC to peripheral equipment an additional ethernet port must be provided. This requirement shall not apply to machining equipment.

8.14. Documentation Requirements: A complete set of instruction manuals shall be provided that contain all the information necessary to operate, maintain, and reinstall all software and hardware in the system. Step by step

instructions shall be provided to facilitate the rebuilding of the system in the event of a fatal system crash. The vendor or contractor shall provide network design drawings to both the information technology industrial automation group and information technology operations division. These drawings should include complete data flow diagrams which are sufficient for system familiarization and troubleshooting. The vendor or contractor shall provide to industrial automation at least two electronic copies of all control unit program. These copies should include description files of the ladder logic and any cabling required to connect to the control systems. No control units will be password protected and no other form of lockout measure shall be implemented by anyone other than CCAD IT employees. The Contractor shall provide electrical wiring diagrams for all installed control systems to the CCAD industrial automation group.

8.15. Proposals or specifications that deviate from those described herein shall be coordinated for specific approval or rejection by Government CCAD information technology representatives prior to shipment, installation, and acceptance of the equipment.

8.16. Security Technical Implementation Guides (STIGS): STIGS are the configuration standards for the Department of Defense and contain technical guidance to lock down Information Systems (IS) and software applications that might otherwise be vulnerable to malicious attacks. The contractor shall be responsible for ensuring all appropriate STIGS are implemented and their software runs acceptably.

## 9. Safety

9.1. Safety. The Contractor bears sole responsibility for compliance at all times with Federal, state, and municipal safety and health laws, regulations, and standards that apply to the work performed under this contract, including the Occupational Safety and Health Act. The Contractor shall take all reasonable steps and precautions to maintain compliance with applicable regulations/ requirements, prevent accidents, and preserve the health and safety of Contractor and Government personnel performing or in any way coming in contact with the performance of the work required by this contract. The Contractor shall also take additional immediate actions/precautions as requested by the KO when the KO determines that such measures are necessary for safety and health purposes. The Contractor shall emphasize to all employees that intentional disregard for Contractor or Government safety requirements could be used as grounds for termination of employment. This shall include Contractor supervisors who condone such actions. If the Contractor fails or refuses to promptly comply with all safety requirements, the KO may issue a stop order for all or part of the work until satisfactory corrective action has been taken. The Contractor shall not be granted an extension of time nor claim excess costs or damages due to any stop order. The Contractor shall execute a safety program that is in compliance with 29 CFR 1910 and ensure that all of its sub-contractors are in full compliance.

9.2. Safety Inspections. The Safety Plan will describe how the Contractor will accomplish frequent safety and health inspections of Contractor and subcontractor work sites, material, and equipment to ensure conformance to the Contractor's Safety and Health Plan and the requirements of this contract. Inspection frequency shall be at least monthly, or as described in the Contractor's "safety and health capabilities and processes" narrative submitted in response to the solicitation for this contract, whichever is more frequent. Identify the personnel who will perform these inspections, and describe their qualifications. Inspections shall be documented in writing and made available to the KO upon request. Inspection documentation shall include the name of the inspector, date of inspection, and all identified safety and health problems and deficiencies. Follow-up inspections to ensure correction of any identified deficiencies must also be conducted and documented in inspection reports.

9.3. Safety and Occupational Health Committee. The Contractor shall conduct monthly safety and occupational health committee meetings to provide Contractor management insight into safety and occupational health problems to insure the continuing development of Contractor's safety and occupational health program. A copy of committee minutes shall be forwarded to the Chief, Safety and Occupational Health Division via the TPOC within five (5)

business days after the meeting. Committee Minutes shall be in accordance with DI-ADMN-81250B Conference Minutes, CDRL A008.

9.4. **Accident Investigation and Reporting.** The Contractor shall immediately notify the Chief, Safety and Occupational Health Office, CCAD and the TPOC of all accidents/mishaps which result in a lost-time injury or damage to Government or private property. The Contractor shall complete an incident report and submit it to the Chief, Safety and Occupational Health Office via the TPOC within twenty-four (24) hours. When the Chief, Safety and Occupational Health Office determines from the incident report that an investigation is warranted, the Contractor shall conduct an investigation and provide to the Chief, Safety and Occupational Division via the TPOC within ten (10) days a report which includes the facts surrounding the accident, statements from witnesses, findings regarding causative factors, corrective actions taken, and recommendations.

9.5. **Mishap Statistics.** The Contractor shall maintain statistics of all employee mishaps, occurring during the performance of the contract, which results in injury, death and/or damage to Government or private property. The statistics shall be categorized by type of mishap and shall identify property losses and Contractor worker days lost. These statistics shall be submitted annually to the Chief, Safety and Occupational Health Office via the TPOC.

9.6. **Excavations and Trenching.** Any excavations or other work that requires a digging permit performed will follow CCAD Soil Disturbance Guidelines in addition to trenching and shoring guidelines provided in Army Corps of Engineer Safety and Health Requirement Manual, EM 385-1-1, and Subpart P of 29 CFR 1926. Interruption of services, injury to workers and equipment damages can occur when electrical, gas and steam lines are broken during digging operations. Ensure digging permits are obtained prior to digging. Contractor will obtain a digging permit before breaking ground from the NAVFAC Public Works to ascertain where all utilities lines are to avoid.

9.7. **Confined Space Work.** The Contractor shall ensure that, where applicable, all confined space work is performed in full compliance with 29 CFR confined space work requirements. Written confined space entry procedures will be developed and included in the Safety Plan. See para 9.19.1.

9.8. **Fall Protection.** The Contractor shall implement a fall protection program for any operation performed four feet and above. Fall protection requirements are addressed in U.S. Army Corps of Engineers EM 385-1-1, Safety and Health Requirements Manual; 29 CFR 1910.23, 29 CFR 1910.66; and, Subpart M of 29 CFR 1926. A written Fall Protection plan will be included in the Contractor's written Safety Plan. See para 7.21.

9.9. **Control of Hazardous Energy (Lockout/Tagout).** The Contractor shall establish a program and utilize procedures according to 29 CFR 1910.147 and 1910.147 App A for affixing appropriate lockout devices or tag-out devices to energy isolating devices, and to otherwise disable machines or equipment to prevent unexpected energizing, start up, or release of stored energy in order to prevent injury to employees. A written lockout/tagout program will be developed by the Contractor and included in the written Safety Plan. See para 9.19.1.

9.10. **Welding, Cutting, and Brazing Operations.** The Contractor is required to obtain a welding permit from the installation fire department before performing any welding, cutting or brazing operation. Welding, cutting and brazing operations will comply with guidelines in U.S. Army Corps of Engineers EM 385-1-1, Safety and Health Requirements Manual, Subpart Q of 29 CFR 1910, or Subpart J of 29 CFR 1926 as applicable.

9.11. **Lead and Lead-based Paint.** Any work involving the demolition or salvage of structures where lead is present or the disturbance of lead-based paint require the submission of a lead abatement/removal plan ten days before any onsite activity begins for acceptability. The Contractor will develop and provide a site-specific comprehensive lead control plan through the TPOC to CCAD's Facilities Engineering Management Division and Safety and Occupational Health Division.

9.12. **Asbestos Containing Materials.** The Contractor will develop and submit a site-specific asbestos hazard control plan through the TPOC to CCAD's Facilities Engineering Management Division and Safety and Occupational Health Division 10 days before any onsite activity begins for acceptability. The requirements for the plan are outlined in 29 CFR 1910.1001 and 29 CFR 1926.1101.

9.13. Concrete and Masonry Work. The Contractor will ensure any tasks involving the sanding, drilling, chipping, grinding, polishing, cutting, or sawing of concrete and concrete products employ dust controls to mitigate the risk exposure to silica concentrations at or above the occupational exposure limits. These procedures will be developed as a part of the site-specific silica exposure control plan and provided to the Facilities Engineering Management Division and Safety and Occupational Health Division through the TPOC before any on site work begins for acceptability.

9.14. Hazard Communication. The Contractor shall ensure all personnel handling, packing, storing, transporting, or using hazardous materials are provided training, per 29 CFR and 49 CFR, on the characteristics of the materials and proper safety precautions as detailed on the Safety Data Sheets (SDS). Contractor shall ensure personnel are fully familiar with the SDS for material handled and have unrestricted access to the SDS at all times. SDS shall be maintained in all areas for chemicals used or stored in the work area. The SDS shall be indexed so that any specific one is readily accessible. A master copy of all SDS shall be maintained in the Contractor Safety Office and submitted to the Chief, Safety and Occupational Health Division via the TPOC upon receipt of Government request. These master copies shall, be updated whenever a new product requiring an SDS has been approved and purchased. The Contractor shall prepare and submit to the KO via the TPOC thirty (30) days after contract award a Hazard Communication Plan to comply with provisions of 29 CFR 1910.1200. The Contractor shall provide the Hazard Communication Plan in accordance with DI-MGMT-80033A Hazard, Safety, and Occupational Plan, CDRL A011.

9.15. Hazard Reporting and Abatement. The Contractor shall develop a program whereby personnel can report a hazardous situation to the Contractor safety representative with impunity/confidentiality. Timely abatement of confirmed hazards is required.

9.15.1. Hazardous or noncompliant conditions identified by the KO shall be promptly corrected, and corrective action(s) taken shall be reported in writing to the KO within five days of the KO's notification to the Contractor. In cases of serious and/or recurring hazards/noncompliance, the KO may stop the work in question pending correction of the hazardous/noncompliant condition, and/or order the removal of the involved Contractor/subcontractor employees from the Government installation/ facility.

9.15.2. Files shall be maintained of reported hazards and the abatement method. At a minimum, the files, the files shall provide the following information: date deficiency identified, person who identified the deficiency, description of deficiency, description of planned/actual corrective action, person responsible for correcting deficiency, projected resolution date, actual resolution date, date the person who identified the deficiency was notified of deficiency resolution. These files shall be made available to the Chief, Safety and Occupational Health Division through the TPOC upon request.

9.16. Investigation and Resolution of Safety and Health Matters. In addition to any other requirements of this contract, when requested by the KO the Contractor shall investigate any safety and health matter connected with the performance of work under this contract. Matters for which investigations may be requested include, but are not limited to, significant failures to control hazardous conditions, significant compliance failures, significant unfavorable mishap or compliance trends, etc. When investigation is requested, the Contractor shall complete the investigation and provide a report of investigation findings, actions planned/taken resolve the problem and/or improve future performance, and target/actual dates for action completion. This report shall be provided to the KO within 15 days of the request to investigate, except when an extension is granted in writing by the KO.

9.17. Quality Control Assurance. The Contractor shall establish a comprehensive quality control program to ensure that their performance achieve compliance with the requirements of the contract.

9.18. Electrical Equipment Safety.

9.18.1. Employees working in areas where there are potential electrical hazards shall be provided with, and shall use, electrical protective equipment that is appropriate for the specific parts of the body to be protected and for the work to be performed.

9.18.2. Contractor shall ensure personnel employ a lockout/tagout program, as stipulated in paragraph 9.9 of this section.

9.18.3. The Contractor shall ensure all electrical and electronic equipment use and maintenance is performed using the National Electrical Code and 29 CFR 1910.

9.19. Safety and Occupational Health Plan.

9.19.1. The Contractor shall develop, promulgate and enforce a written safety and occupational health plan (Herein referred to as Safety Plan). The Safety Plan shall identify protocols and procedures to ensure a safe and healthful workplace. A copy of the Safety Plan shall be submitted to the TPOC 15 calendar days after contract award. The Contractor shall develop, promulgate and enforce a written safety and occupational health plan (Herein referred to as Safety Plan). The Safety Plan shall identify protocols and procedures to ensure a safe and healthful workplace. A copy of the Safety Plan shall be submitted to the TPOC 15 calendar days after contract award. The Safety Plan shall be developed and submitted by the Contractor. The Contractor shall address each of the elements/sub-elements in the outline contained in Appendix A of Army Corps of Engineers EM 385-1-1, Safety and health requirements Manual in the order that they are provided in the manual. If an item is not applicable because of the nature of the work to be performed, the Contractor shall state this exception and provide a justification. The plan shall be submitted to the TPOC. The government will review the Contractor's proposed safety and health plan, and the Contractor shall promptly resolve any comments arising from government review. Upon the KO's determination that the Government's comments (if any) have been satisfactorily resolved, the Government will accept the Safety And Health Plan in writing, and the accepted safety and health plan will be considered part of the contract. Unless accepted in writing by the KO, the Contractor shall not commence physical on-site work at the government installation/facility. The Contractor shall provide the Safety and Occupational Health Plan in accordance with DI-MGMT-80033A Hazard, Safety, and Occupational Plan, CDRL A011.

9.19.2. Safety and Health Points of Contact. The Contractor shall provide names and contact information for key Contractor personnel, and alternates, who may be contacted 24 hours a day concerning safety and health matters or emergencies. The Contractor shall appoint a Site Safety and Health Officer (SSHO) whose primary duty and responsibility is to prepare and enforce the Contractor's Safety Program. The SSHO will have at least 3 years of satisfactory experience in preparing and enforcing the Contractor's safety program on contracts of similar size and complexity in the past and must have completed a 30-hour General Industry OSHA class or equivalent within the last three years.

9.19.3. Activity Hazard Analysis will be accomplished for critical or high risk activities being performed and identify the sequence, the specific anticipated hazard, equipment, materials, and the control measures to be implemented to eliminate or reduce each hazard to an acceptable level of risk. The Contractor shall provide an Activity Hazard Analysis. The Contractor shall use the more stringent standard when standards are different. The names of the competent and qualified person required for a particular activity (e.g. excavation, scaffolding, fall protection, or other activities as specified by OSHA) shall be identified and included in the activity hazard analysis, as well as proof of their competency and qualification. The Plan shall be reviewed and deemed acceptable by the CCAD safety and occupational health division before beginning any on-site activities. The Contractor shall provide the activity hazard analysis within 20 days of contract award. The Government will review and provide a response within 20 days. The Contractor shall have 10 days to resubmit with corrections. The time duration shall apply for every iteration of submissions. Activity Hazard Analysis shall be in accordance with DI-SAFT-80106C Health Hazard Assessment Report (HHAR), CDRL A012.

9.20. Regulatory Compliance-Safety: The Contractor shall ensure that all work is performed in full compliance with all Federal, State and local occupational safety and health regulations. This includes, but is not limited to, workplace safety, development of protocols and procedures, inspections, medical surveillance, and maintenance of compliance records. The Contractor shall notify the TPOC immediately upon shutdown of any operation due to non-compliance with any safety regulations.

9.21. Safety and Occupational Health Training.

9.21.1. The Safety Plan will describe how the Contractor will implement and operate a safety and health training program encompassing all Contractor and subcontractor employees who will work on-site at the government installation/facility. All affected employees shall be trained in accordance with the Safety and Health Training Program prior to performing work on-site at the government installation/facility, except where an alternative training schedule is approved in writing by the KO. The training program shall include the following, at a minimum:

- Written procedures and schedules for training of affected employees in the following:
- Employee rights under the Occupational Safety and Health Act.
- Hazardous conditions that may be encountered during the performance of work at the government installation/facility, how to recognize hazardous conditions, and the signs and symptoms of workplace related illnesses and injuries.
- The hazard control methods, safe work methods, and personal protective equipment that will be applied to prevent work related illnesses and injuries, including the proper use and limitations of personal protective equipment.
- Procedures to be followed in the event of a fire/emergency or fire/emergency drill, while employees are working on-site at the Government installation/facility, including procedures for obtaining medical treatment/assistance when needed.
- Responsibilities and procedures for reporting of hazardous conditions and work related accidents, illnesses, and injuries.
- Applicable safety and health rules of the government installation/facility that must be followed by Contractor employees. (NOTE: Obtain information on applicable Safety and Health rules of the government installation/facility from the KO).
- Contractor employee, to include subcontractors, are made aware that CCAD is enrolled in OSHA Voluntary Protection Programs (VPP). The Contractor will ensure all Contractor employee, including subcontractors, receive training in VPP fundamentals.
- Other safety and health training as deemed necessary/appropriate by the Contractor.
- The methods and resources the Contractor will apply to complete the above training in a timely and satisfactory manner, including information such as descriptions of training locations/facilities, training materials to be used, sources of training and training materials, instructor qualifications, communication of training to employees who cannot communicate effectively in English, refresher training, etc., as applicable.

9.21.2. Documentation of the training provided, including date(s) of training, name(s) of employees trained, training topic, instructor (if applicable), and means used to verify that the training was understood. This documentation shall be retained for the duration of the contract, and shall be made available to the KO upon request.

9.22. Personal Protective Equipment (PPE). The Contractor personnel shall utilize the proper PPE where appropriate including head, eye, hand, foot, respiratory, and hearing protection. All required PPE shall be maintained serviceable and worn properly when required. The Contractor's Safety Plan shall clearly identify the work areas requiring PPE and the type of PPE required. Unserviceable PPE shall be removed from service and properly disposed. The PPE utilized shall comply with all ANSI and OSHA standards. Training of employees on the proper use of PPE shall be an integral part of the Contractor Safety and Occupational Health Training Program.

9.22.1. The minimum PPE requirements required for all Contractor personnel entering CCAD Industrial areas shall include but not limited to:

- High impact safety glasses with side shields that meet or exceed ANSI Z87.1;
- Hearing protection in the form of plugs or muffs shall be worn by all who are exposed to high noise activities/operations that produce noise levels in excess of 85 db;

- Hard hats shall be worn that comply ANSI Z89.1 and shall be worn by all workers when overhead hazards exist or areas designated as Hard Hat Working Zones;
- Gloves of the proper type shall be worn by persons involved in activities that expose the hands to cuts, abrasions, punctures, burns and chemical irritants;
- Contractor will ensure Contractor employees, including subcontractors, who enter industrial areas wear compression-type protective footwear with slip-resistant soles. NOTE: No open toe shoes or shoes with high heels (2.0 or high) will be worn in CCAD industrial areas, production and/or service areas.
- Additional PPE depending on the hazardous operation that is being performed, regardless of location on CCAD, shall include but is not limited respirators, appropriate protective gloves, personal fall arrest systems, welding goggles, hard hat, and face shield. The purchase and procurement of PPE is the responsibility of the Contractor.

9.22.2. Contractor will take immediate action to correct any contract employee violating CCAD PPE requirements.

## 10. Environmental Requirements

10.1 Compliance with Environmental Laws and Regulations: Contractor shall comply with all applicable federal, state, and local environmental laws, statutes, regulations, executive orders, permits, Army regulations (with supplements), as well as Major Subordinate Command (MSC) and installation regulations and policies. Contractor shall immediately report any conflicts between applicable federal, state, local environmental laws, statutes, executive orders, and provisions of Army Regulation 200-1, and any specifications within this contract to the TPOC, as well as to the Chief of the Environmental Programs Compliance Division (EPCD).

10.2 Compliance with Green Procurement Requirements: Contractor shall follow Federal EPA Comprehensive Procurement guidelines ([www.epa.gov/cpg](http://www.epa.gov/cpg)) and Army Contracting Command Quick Guide (<https://acc.aep.army.mil/accapps/ACCMAP/Documents/Quick-Guide-for-Sustainable-Procurement.docx>) for acquisition of building materials and products and select materials that have a long life cycle; the least toxic materials; recyclable materials; materials that are resource-efficient; recovered materials; bio-based materials; materials with the maximum recycled content; materials harvested on a sustained yield basis; and products causing the least pollution during their manufacture, use, and reuse, to the extent possible. No acutely toxic materials, polychlorinated biphenyls (PCBs), formaldehyde, asbestos containing materials, asbestos compounds, or fragile or brittle materials, shall be procured or furnished unless specifically approved by the procuring activity. No Class 1 Ozone Depleting Compounds (ODCs) or equipment requiring such substances, even if contained in a closed looped system, shall be procured or furnished for use at government installations. No Class 2 ODCs or equipment requiring such substances shall be procured or furnished for use unless specifically approved in writing by the procuring activity.

10.3 Compliance with License and Certification Requirements and local permits and approvals: Contractor shall obtain all licenses and certifications required by Federal, State, and local environmental laws and regulations necessary and ensure such licenses and certifications remain current throughout the duration of the contracted work to adhere to the specifications of this contract. The Contractor shall submit all plans, notifications, reports, submittal documents, and fees required by Federal, State, and local environmental laws and regulations to the appropriate Federal, State, and local (CCADR 200-19) authority or agency as necessary to adhere to the specifications of this contract. All required licenses and certifications required by Federal, State, and local environmental laws or regulations shall be considered a contract deliverable upon award. Licenses and Certifications shall be submitted in accordance with DI-MGMT-81954 Licenses and Certifications, CDRL A013. It is the responsibility of the Contractor to identify and obtain all of the installations' required permits and approvals prior to commencement of any of the work specified under this contract and to meet all stipulated conditions and requirements at all times while performing any work. Contractor shall abide by all local and installation requirements and provide a site specific environmental plan as part of the deliverables. The Contractor shall provide the site specific environmental plan in accordance with DI-MGMT-80033A Hazard, Safety, and Occupational Plan, CDRL A011. Appropriate and detailed notification shall be provided by the Contractor to the Chief of the EPCD prior to excavating or conducting any kind of hot work anywhere on the installation where the work is to be performed.

10.4 Notification of Federal and State Regulators: Contractor shall immediately notify the Chief of the EPCD and the TPOC, or their designated backups in their absence, of the arrival on site of any Federal, State, or DoD environmental regulator or enforcement agent or the receipt of any correspondence from a Federal or State environmental agency.

10.5 Inspections of Work Sites: Contractor shall submit to potential Federal, State, Army and installation work site environmental regulatory inspections and/or investigations into noncompliance, and fully cooperate with such inspections/investigations by providing the appropriate records and documentation. Environmental regulatory agencies are authorized by law to inspect any work site for environmental compliance with regulatory requirements. The inspection will only require the work site environmental officer, or supervisor/manager to answer questions and/or escort the inspector to specific work site areas with the potential to affect environmental quality. If an inspection is conducted, it will not stop or disrupt ongoing contract activities, except, if the Contractor is requested by the regulatory inspector, the Contractor shall correct any regulatory problems during the inspection to the extent possible. Any regulatory inspections and their outcomes shall be communicated to the TPOC and to the Chief of the EPCD or their appointed backups. Typical environmental work site inspections are conducted in less than 30 minutes with an approximate frequency of one inspection every two months. More frequent inspections may be required at the installation level and some may also require a close-out inspection prior to the Contractor vacating the work site. Inspections will focus on hazardous material management, solid and hazardous waste disposal, Pollution Prevention (P2), air quality, and waste water management, to include storm water requirements. Contractor shall obtain the Environmental Compliance Checklist from the EPCD at the start of the contract performance period.

10.6 Reporting Noncompliance: Contractor shall immediately report any nonconformance or noncompliance with applicable Federal, State or Local environmental laws, Army and installation environmental regulations or policies, as well as any actions taken to address and correct the noncompliance, to the TPOC and Chief of the EPCD, or their appointed backups in their absence.

10.7 Verification of National Environmental Policy Act Documents: Where applicable, the Contractor shall obtain from the TPOC or Chief of the EPCD, a copy of AMC's National Environmental Policy Act Policy and 32 CFR 651 which addresses actions to be taken by contractor. These documents include but are not limited to a Categorical Exclusion (CATEX), the analysis-associated decision document of an Environmental Impact Statement (EIS) and Record of Decision (ROD); Environmental Assessment (EA) and Finding of No Significant Impact (FONSI) or Notice to Proceed; or Record of Environmental Consideration (REC) on the proposed contract actions prior to commencement of such actions.

10.8 Conformance with Environmental Management System: Contractor shall adhere to the guidelines stipulated by CCAD's Environmental Management System (EMS) during the performance of the contracted work and shall take the necessary actions to identify, monitor, and control those contract operations and activities that pose a risk of contamination, or can negatively impact the natural or human environment. Contractors shall ensure compliance with all applicable environmental laws and regulations during the performance of their work and shall be familiar with the EMS goals and objectives to minimize environmental impacts. Contractors shall familiarize themselves with CCAD's Environmental Policy and shall communicate it to their employees and shall make a conscious effort to minimize energy consumption, material consumption, and regulated waste, CCAD's top three environmental impacts, during the performance of their work. Contractors shall ensure measures are in place to check and calibrate test equipment, instruments, and maintain appropriate documents and records. Contractors shall implement practices that promote the conservation of natural resources, increase efficiency and enhance compliance with environmental laws and regulations. The Contractor shall reference section 5 of this checklist for additional guidance in support of the EMS goals.

10.9 Assignment of Environmental Compliance Designee (ECD): Unless specified differently by the Chief of the EPCD at the contract's kick-off meeting, the Contractor shall appoint an ECD for all contract work periods exceeding 180 consecutive days on site. Contractor shall appoint a primary and alternate ECD for each production shop or work area that uses or stores hazardous materials and/or generates hazardous wastes. Contractor ECDs shall monitor implementation of all environmental regulatory requirements, report all environmental noncompliance to the work site supervisor, correct all environmental noncompliances, and verify implementation of directed actions to

correct identified environmental noncompliance. Contractor shall have at least one ECD on duty at all times at each shop or work area. Contractor shall require all personnel designated as ECDs to complete the General Environmental Awareness Training provided by the EPCD as well as the initial ECD training and certification course through the installation or MSC environmental compliance point of contact within 15 days of the start of contract performance. A Contractor's ECD's certification shall remain current throughout the contracted work. Contractor shall require ECDs to complete a re-certification course within 365 days of the completion of the initial certification course to maintain ECD certification. Failure to complete the re-certification course within 365 days will necessitate re-taking the initial course to maintain ECD certification. Contractor personnel certified as ECDs may perform other duties provided they do not prevent the performance of required ECD duties. Contractors may request a waiver of this requirement through the TPOC to the Chief of the EPCD, if using or storing very small quantities of hazardous materials. The Chief of the EPCD shall, at his or her discretion, approve or deny such waiver.

10.10 Competency Training for Contractor Personnel: Contractor shall not allow personnel to perform any activities or tasks on AMC installations without proper and adequate qualifications or job competency training. Where the contracting work involves hazardous waste operations, the Contractor shall be responsible for ensuring his employees have completed a 24-hour Hazardous Waste Operations and Emergency Response (HAZWOPER) training, at a minimum, or a 40-hour HAZWOPER course based on the complexity of the project, if required by the Chief of the EPCD. In the event of any identified noncompliance, the Contractor shall, if requested, provide proof of contractor personnel's training or qualification (individual name, training/qualification type, training/qualification certificate, and date of training/qualification) to perform those contract activities associated with the identified noncompliance.

10.11 Generation of Solid Waste: Contractor shall remove from the installation and dispose of all solid waste that is generated through their contracted work, and which cannot be recycled, to an approved and permitted off-post disposal facility.

10.11.1. Submit in writing the quantities of waste removed and quantities recycled to the Chief of the EPCD or designee on a monthly basis and at the expiration of the contract. The submittal shall include the date of disposal/recycling, the disposal/recycling facility, the types of material disposed/recycled and each of the quantities of materials disposed of and recycled by weight.

10.11.2. The Contractor shall establish a program to promote cost-effective waste reduction in all operations and facilities covered by the contract. This includes collection, separation, and processing products or other materials recovered from solid waste streams for use in the form of raw materials.

10.11.3. The Contractor shall make maximum effort to reduce and prevent waste and comply with Executive Order 13693 and the installation's waste management requirements. Upon completion of the contracted work, the Contractor shall conduct final clean-up of the work site, containerize any debris, and haul it away for appropriate disposal at no additional cost to the government. The TPOC or an Environmental Advocate shall be contacted for approval of the final clean-up work.

10.12 Generation of Hazardous Waste: Contractor shall abide by the guidelines stipulated in NASCC's Hazardous Waste Management Plan and shall assign all hazardous waste management responsibilities to the appointed ECD. Contractor shall contact the Chief of the EPCD to obtain technical assistance from the installation's Environmental Director who will assist the ECD with achieving and maintaining compliance with hazardous waste storage and disposal requirements. The EPCD will provide hazardous waste drums for the Contractor to containerize hazardous waste generated through the contracted work. Where liquid hazardous waste is to be stored, the Contractor shall provide appropriate secondary containment and ensure containers are properly bonded and grounded where the chemical waste requires it. In addition, the Contractor shall be responsible for maintaining an appropriate spill response and control kit at all times. All spills are reportable and shall be coordinated with the TPOC and the Chief of the EPCD. Contractor shall accumulate hazardous waste prior to disposal shipment in a satellite accumulation point at or near the point of generation or in a less-than-90-day site, in accordance with Federal, State, Army, and installation regulations or policies. The Government is responsible for removal of all hazardous waste. Contractor shall contact the EPCD Chief for assistance. The Contractor shall provide a 24-hour notification to the Chief of the

EPCD or designee that hazardous waste containers are ready for pick up and turn in by the EPCD. The EPCD will remove and dispose of manifested hazardous waste generated by contract activities from the installation to an approved, off-post, permitted hazardous waste disposal facility. The Contractor shall coordinate appropriately with the TPOC and the Chief of the EPCD the management of all hazardous waste to include profiling and final disposal. The Contractor shall perform a daily walk-through to ensure all hazardous material and all hazardous waste is properly secured and segregated by compatibility. Contractor shall reference section 5 of this checklist to ensure compliance with Federal, State and local laws and regulations.

10.13 Use of Hazardous Materials: Contractor shall contact the Chief of the EPCD, who will assist the Contractor with achieving and maintaining compliance with hazardous materials management guidelines, to include requesting and obtaining an Approved Chemical List (ACL), labeling, storage, secondary containment, issue, use, and disposal requirements. Contractor shall submit to the TPOC or Chief of the EPCD a hazardous material inventory for any materials to be used in the performance of the contracted work. Where required by the Chief of the EPCD, the Contractor shall coordinate turn in and check out of all hazardous materials with a Hazardous Distribution Supply Center (HDSC) on a daily basis. The hazardous material inventory will be submitted 30 days prior to commencement of work for contracts that exceed 180 consecutive days and 15 days prior to commencement of work for contracts requiring under 180 days of consecutive work. The inventory list shall contain the hazardous material type and maximum quantities of materials anticipated to be used and stored on-site. The hazardous material shall be properly identified and labeled to include any applicable identification number, such as National Stock Number or Special Item Number and include any applicable hazardous materials management guidelines found on CCAD Regulation 200-16 and all applicable hazardous communication (HAZCOM) requirements or as required by the installation. Contractor shall ensure all hazardous materials are properly secured and segregated by compatibility and kept under his or her control at all times. No expired hazardous materials shall be used or stored at the installation. Where applicable, and prior to bringing or removing hazardous materials on, at, or from the facilities where the contracted work is to be performed, the Contractor shall submit copies, preferably in electronic form, of Global Harmonization System (GHS) compliant SDSs for all hazardous materials used and stored on-site during performance of the contract. Contractor shall not supply or deliver any hazardous materials or chemicals to an AMC installation that are listed on EPA toxic chemical list without prior written approval from Chief of the EPCD. During the performance of the contracted work, the Contractor shall ensure that hazardous material containers remain under the control of the user at all times and that containers are properly closed when the material is not in use. The Contractor shall not bring into a Government installation any non-approved hazardous materials for use in the performance of their work. Where liquid materials are to be stored, the Contractor shall provide appropriate secondary containment and ensure containers are properly bonded and grounded where the chemical material requires it. In addition, the Contractor shall be responsible for maintaining an appropriate spill control kit at all times. All spills are reportable and shall be coordinated with the TPOC and the Chief of the EPCD. The Contractor shall, upon completion of each day's work, clean, remove, and properly containerize or dispose of any resultant hazardous waste generated by the work performed under this contract, where required by the installation. Upon completion of the contracted work, the Contractor shall conduct final clean-up of the work site, containerize any hazardous material/waste debris, and coordinate with the EPCD for pick up and turn in for disposal. Any unused hazardous material and any non-ozone depleting substances or refrigerants brought in by the Contractor shall be recovered and removed from the installation by the Contractor prior to vacating the work site. The TPOC or an Environmental Advocate shall be contacted for approval of the final clean-up work.

10.14 Prevention of Storm Water Pollution: The Contractor shall perform, track, participate, implement, and comply with storm water pollution prevention minimum control measures, protocols, and BMP and ensure that water quality standards are not violated in accordance with all regulations and policies as they apply to the State Pollutant Discharge Elimination System general permit requirements and any of the installation's guidelines. Applicable permits include:

- The installation's Small Municipal Separate Storm Sewer System (MS4) Permit;
- The Multi-Sector General Permit for Storm Water Discharges Associated with Industrial Activities (MSGP);
- All Construction Activity Storm Water permits minimum control measures include, but not limited to:
  - Public Education and Outreach on Storm Water Impacts
  - Public Involvement and Participation

- Illicit Discharge Detection and Elimination
- Construction Site Storm Water Run-off Control
- Post Construction Storm Water Management in New Development and Redevelopment
- Pollution Prevention/Good Housekeeping for Municipal Operations

Contractors will comply with the MSGP permit when the activity is identified as a permitted industrial activity. BMPs include, but are not limited to:

- Practicing spill prevention and good housekeeping.
- Installing and managing erosion and sediment control.
- Meeting the requirements of the MS4 permit.
- Contractors will obtain permit coverage for construction activities disturbing over one acre of land (total acreage is cumulative across all portions of the project). BMPs include, but are not limited to:
  - Preparing and implementing a site-specific Storm Water Pollution Prevention Plan (SWPPP) as outlined in the permit and prior to any soil disturbance.
  - Installing and managing erosion and sediment control.
  - Make available, upon request, permit associated documentation.
  - Practicing spill prevention and good housekeeping.
  - Meeting the requirements of the MS4 permit.
  - Schedule inspections and provide corrective actions for noted facility deficiencies.
  - The Contractor shall control all pollutants, including waste materials and demolition debris that occur on site and shall be handled and disposed of in a manner that does not cause contamination of storm water. Good housekeeping and preventative measures shall be taken at all times to ensure that the site will be kept clean, well-organized, and free of debris. All spills are reportable and shall be coordinated with the TPOC and the Chief of the EPCD. No discharges to the stormwater system or wastewater systems are allowed without explicit approval from the TPOC and the Chief of the EPCD.

10.15 Reserved

10.16 Reserved

10.17 Protection of Work Site Resources: Contractor shall confine all activities to areas defined by the drawings and specifications. Prior to the beginning of any work, the Contractor shall identify any land resources to be preserved within the work area. Except in areas indicated on the drawings or specified to be cleared, the Contractor shall not remove, cut, deface, injure, or destroy land resources including trees, shrubs, vines, grasses, topsoil, and landforms. The Contractor shall provide effective protection for land and vegetative resources at all times. Prior to site clearing and grubbing, or any sort of outdoor construction activity, the Contractor shall coordinate harvesting of saleable timber with the Chief of the EPCD. Contractor shall notify the Chief of the EPCD if any trees are required to be disposed or removed. The Contractor is not authorized to remove or dispose of any tree greater than 6 inches in diameter unless permission has been granted in writing by the Chief of the EPCD.

10.18 Prevention of Spills: The Contractor shall follow NASCC's Spill Prevention, Control, and Counter Measure Plan (SPCCP) and reference CCAD's SPCCP and Installation Spill Contingency Plan (ISCP) if transporting, processing, storing, or in any way managing hazardous waste, hazardous material, petroleum-oils-lubricants, or other restricted items. The Contractor shall ensure secondary containment is in place any time liquid materials are stored on-site and shall provide his or her own spill response supplies and have them readily available at each work site. In case of a spill, the person in control of the spill site, or their designated representative, shall take appropriate action to protect workers and bystanders; contain the spill (if it can be done safely); secure the spill site; restrict ignition sources; and immediately contact the installation Fire and Emergency Services (Fire Department), the TPOC and the Chief of the EPCD. Contractors storing 1,320 gallons or more of any oil-based product in an aboveground storage tank at a construction site shall follow NASCC's SPCC Plan. The Contractor shall immediately respond to actual emergencies and accidents, prevent or mitigate associated adverse environmental impacts, and contact the installation's Fire and Emergencies Services.

10.19 Protection of Sensitive Areas: Where applicable, Contractor shall comply with an installation's designated sensitive or off-limit area restrictions. Sensitive areas are marked with orange carsonite signs with reflective stickers, or similar signage materials, indicating what activities (e.g., driving, digging, foot traffic) are prohibited. These stakes are usually placed on the boundary of the sensitive area. The stakes will show one or a combination of symbols.

10.20 Corrective Action for Noncompliance: Contractor shall take immediate corrective action when given a verbal or written notice of environmental noncompliance or nonconformance by the TPOC or the Chief of the EPCD. Failure or refusal by the Contractor to comply promptly may be grounds for the KO to invoke the appropriate contractual remedies. This may cause all or part of the work to be stopped immediately until satisfactory corrective action has been taken by the Contractor.

10.21 Noise: Where applicable, Contractors shall ensure maximum use of low-noise emission products, as certified by the EPA.

10.22 Mercury: Mercury is prohibited, unless specified otherwise, with the exception of mercury vapor lamps and fluorescent lamps. Dumping of mercury-containing materials and devices such as mercury vapor lamps, fluorescent lamps, and mercury switches in rubbish containers is prohibited. Contractors shall remove any mercury vapor lamps, fluorescent lamps or mercury containing switches without breaking, pack them to prevent breakage, and transport them out of the activity in an unbroken condition for disposal as directed by TPOC or the Chief of the EPCD. The Contractor shall immediately report any instances of breakage or mercury spillage to the Chief of the EPCD and the KO. The Contractor shall contact the EPCD any time there is a need for cleanup of a mercury spill area resulting from any work under this contract.

10.23 Universal Waste / e-Waste Management: Universal waste including, but not limited to, some mercury containing building products such as fluorescent lamps, mercury vapor lamps, high pressure sodium lamps, CRTs, batteries, aerosol paint containers, electrical equipment containing PCBs, and consumed electronic devices, shall be managed in accordance with applicable environmental law and installation instructions. The Contractor shall coordinate the management of these types of waste with the TPOC and the Chief of the EPCD.

10.24 Pollution Prevention / Hazardous Waste Minimization: The Contractor shall implement practices that reduce, eliminate, or prevent pollution at the source and make a conscious effort to minimize the use of hazardous materials and the generation of hazardous waste. Contractor shall consult with the EPCD for suggestions and to obtain a copy of the installation's pollution prevention/hazardous waste minimization plan for use as reference material to reduce environmental impacts generated through their work.

## 11. Fire Protection Requirements and Plans

11.1 ATTENTION CONTRACTOR: Ensure that you and your subcontractors read and abide by this guide. All contractors and subcontractors are under the jurisdiction of the station Commanding Officer. Contractor shall comply with all pertinent provisions of the latest version of U.S. Army Corps of Engineers Safety and Health Requirements Manual, EM 385-1-1, UFGS-01 35 26 and NFPA 241 Standard for Safeguarding Construction, Alteration, and Demolition Operations. Structures in the course of construction, alteration, or demolition, including those in underground locations a fire safety plan will be required. Essential items to be emphasized include the following. Please contact Fire Department Inspection Branch if you have any questions, 961-3369.

- Good housekeeping
- On-site security if necessary
- Installation of new fire protection systems as construction progresses
- Preservation of existing systems during demolition
- Development of a prefire plan maybe required
- Rapid communication
- Consideration of special hazards resulting from previous occupancies

- Protection of existing structures and equipment from exposure fires resulting from construction, alteration, and demolition operations
- Fire alarm and fire protection system changes/additions/acceptance testing must be witnessed and approved by personnel from NASCC Fire Prevention Branch.

11.2 FIRES: All fires, chemical spills, and other emergencies shall be reported to the fire department, even fires that have been put out.

11.3 PHONES: Fire, Police, Ambulance (911)

11.4 Hot work permits are issued by the Fire Prevention Inspectors please call 961-4983. Provide- Name of person doing the work, time of the request and location. The permit request needs to be submitted no earlier than 24 hours before the work is to be performed. If permit is needed less than 24 hours before work begins, you will need to stop by Building 7- Inspection office. Note: There may be a delay in issuance of a permit if the request is less than 24 hours before the work is to be performed.

11.5 Permits are issued on a daily basis only, and from start of work until finished. Permits are required for all hot work and before entering hangars. Hot work includes welding, cutting. Soldering/ brazing, tar pots, blow torches, etc.

11.6 Fire General Information

11.6.1 Prior to opening , using, securing, or testing any fire equipment, fire system, piping, panel, alarm system, hydrant, or any fire protection related item the TPOC must be notified before work shall begin.

11.6.2 No smoking is strictly enforced in designated areas.

11.6.3 Contractors must follow good housekeeping practices. Flammable and combustible materials shall be removed from construction site and shall be maintained in lay down area.

11.6.4 The fire department does not perform gas free inspection. Contractor shall provide own inspection, however, gas free documentation must be presented to the fire inspector.

11.6.5 Contractor/ subcontractor shall not perform any maintenance (i.e. changing oil) on company equipment aboard NASCC.

11.6.6 Fifteen minutes prior to the end of the work day, a foreman or supervisor shall conduct a walk through inspection to ensure that there is no fire hazards left overnight.

11.6.7 Contractor shall ensure that subcontractors are informed and abide by fire regulations.

11.6.8 The Fire Department shall be notified 24 hours prior to the commencement and closure of asbestos removal operations.

11.7 Equipment

11.7.1 Only compression fittings allowed on high pressure hoses, no threaded type allowed.

11.7.2 Only gauge type regulators allowed on tar pots.

11.7.3 All electrical equipment must be UL approved.

11.7.4 No splices on extension cords.

11.7.5 Check -valve back flow valves required on welding equipment

11.7.6 Spring loaded, metal, non combustible fuel containers required.

11.7.7 Fire extinguishers of at least-10lb ABC type required

11.7.8 Welders must have fire blankets. Regulators are required on all high pressure cylinders.

## 12. Security Requirements

12.1. Installation Access: Access to U.S. installations, buildings and controlled areas is limited to personnel who meet security criteria and are authorized. Failure to submit required information/data and obtain required documentation or background investigations will be grounds for denying access to U.S. installations, buildings, and controlled areas. The Contractor shall ensure that any subcontractors used in performance of this contract complies with these requirements and that all employees, of both the Contractor and any subcontractor utilized by the Contractor, are made aware of and comply with these requirements.

The Contractor shall be aware of and comply with the requirements associated with Installation Access Control. The Government is not liable for any costs associated with performance delays due solely to a firm's failure to comply with Installation Access Control processing requirements.

The Contractor shall return installation and CCAD passes to the issuing Security office when the contract is completed or when a Contractor employee no longer requires access.

The Contractor shall obtain a Defense Biometric Identification System (DBIDS) Card through Navy Pass & Tag not to exceed contract expiration. The government TPOC will coordinate badging and briefing with Security. CCAD personnel will escort Contractor at all times if building access is required unless approved in advanced by CCAD Security. Contractors are not authorized to escort anyone on the installation or CCAD.

12.2. Installation Pass Log: The Contractor shall provide the KO, via the TPOC, an Initial Installation Pass Log within three (3) calendar days after contract award. The log must at a minimum contain the following information Full Legal Name, type of access (e.g. CAC, DBIDS, base pass) and working hours. The log shall be updated as employees are added or removed. The Updated Installation Pass Log shall be current and available at any time upon request by the Government and submitted to the TPOC within five (5) days after any changes to the log.

12.3. Individual Termination or Expiration of Employment: The Contractor shall collect the installation access passes the same day employment of an individual has expired or has been terminated and shall return them to the issuing office within three (3) working days.

12.4. Contract Termination or Cancellation: Upon termination or cancellation of this contract, the Contractor shall collect all outstanding installation access passes and return them to the issuing office within three (3) working days.

12.5. Identification of Contractor Employees: All Contractor personnel attending meetings, answering Government telephones, and working in other situations where its Contractor status is not obvious to third parties must identify themselves, to include proper marking of signature blocks in correspondence, to avoid creating an impression in the minds of members of the public that they are Government officials. The Contractor shall ensure that all documents or reports, produced by Contractors are suitably marked as Contractor products or that Contractor participation is appropriately disclosed.

12.6. Contractor workspace (staging site, on-site office, desk or work area, etc.) shall contain a sign signifying the space is occupied by Contractor employee(s) to ensure that Government employees and the public know that they are not Government employees. The proposed sign shall be submitted to the KO via the TPOC for review and acceptance within (10) calendar days after contract award. Workspace sign location shall be coordinated with the TPOC. Contractor employees shall identify themselves by name and company affiliation when answering the

telephone, presenting briefings, conducting or attending meetings, and seminars. All Contractor correspondence (written, facsimile, and email display) shall include their company name.

12.7. Protection of Government and Contract Information: Per Public Use Notice of Limitations stated by Defense imagery Management operations Center and contained at [www.dimoc.mil/resources/limitations/](http://www.dimoc.mil/resources/limitations/), the Contractor shall not cite any information (e.g., contract information, pictures, locations, etc.) obtained through this contract on any hard copy or digital marketing tools to include its company website.

12.8. Required Training: The following provides information on training requirements.

12.8.1 Anti-Terrorism (AT) Level I Training: All Contractor employees, including subcontractor employees, who are employed under the contract, shall complete AT Level I Training within thirty (30) calendar days as required on the AT/OPSEC Cover Sheet after contract start date or effective date of incorporation of this requirement into the contract, whichever applies, or thirty (30) calendar days after employment of new personnel. Contractor personnel travelling overseas shall complete Area Of Responsibility (AOR) specific AT awareness training for U.S. based Contractor employees and associated subcontractor employees. The Contractor shall submit certificates of completion for each affected Contractor employee and subcontractor employee to the TPOC (or to the KO if a TPOC is not assigned) within five (5) business days after completion of this training by all employees and subcontractor personnel. AT Level I awareness training is available at <https://jkodirect.jten.mil>, (course JS-US007). Contractor personnel shall complete refresher training every twelve (12) months except AOR specific AT Level I training which shall be completed as required by local AT policies

12.8.2. OPSEC Training: All Contractor employees, including subcontractors, shall complete Level I OPSEC training within thirty (30) calendar days of employment under this contract. Verification of the training shall be provided to the TPOC within five business days after completion of the training.

OPSEC Level I training is available at <https://securityawareness.usalearning.gov>. Contractor personnel must complete refresher training every 12 months. Verification of the training shall be provided to the TPOC within five (5) business days after completion of the training.

12.8.3. iWATCH Training: The Contractor and all associated subcontractors shall brief all employees on the local iWATCH program (training standards provided by the requiring activity ATO). This locally developed training will be used to inform employees of the types of behavior to watch for and instruct employees to report suspicious activity to the TPOC. This training shall be completed within thirty (30) calendar days after the contract is awarded and within five (5) business days after new employees commence contract performance, with the results reported to the TPOC within five (5) business days after the contract is awarded and within thirty (30) calendar days after new employees commence contract performance. Verification of the training shall be provided to the TPOC within five (5) business days after completion of the training.

## Appendix A – Definitions

Accident and incident report: a contractor generated report to the Government that provides immediate notification and information concerning any major accident or incident resulting in personnel injury or equipment damage.

Activity hazard analysis - as per AMCOM 385-10, a written document that describes the process for identifying the physical and health hazards that could harm workers, procedures to prevent accidents, and steps to take when accidents occur. The written activity hazard analysis, as per AMCOM 385-10, is the contractor's blueprint for keeping workers safe. This document is required for on-site, CCAD work only and does not pertain to work done off site.

Air blanket – the layer of air inside the solvent cleaning machine freeboard located above the solvent to air interface. The centerline of the air blanket is equidistant between the sides of the machine.

As-built drawings - construction drawings modified and annotated to reflect the actual completed construction effort

Beneficial occupancy date - the date the Government can expect to receive useful occupancy of DCRF.

Computer software product list – a contractor generated listing and description of software installed on computer controlled equipment.

Concept of operations - a document describing the characteristics of a proposed system from the viewpoint of an individual who will use that system. It is used to communicate the quantitative and qualitative system characteristics to all stakeholders.

Contractor - a supplier or vendor having a contract to provide specific supplies or service to the Government. The contractor is the prime of this sow.

Contracting Officer - a person with authority to enter into, administer, and or terminate contracts, and make related determinations and findings on behalf of the Government. This person is the only individual who can legally bind the Government.

Contracting Officer's Representative - an employee of the US Government appointed by the KO to administer the contract. Such appointment shall be in writing and shall state the scope of authority and limitations. This individual has authority to provide technical direction to the contractor as long as that direction is within the scope of the contract, does not constitute a change, and has no funding implications. This individual does not have authority to change the terms and conditions of the contract.

Contractor Roster – a contractor provided roster that is used to list contractor personnel assigned to the contract.

Dwell – holding the aircraft parts in the freeboard but above the vapor zone to allow drainage back into the cleaning machine.

Dynamic component repair facility – a building that houses the assembly, testing, painting and canning operations of transmissions and gearboxes. DCRF will be built adjacent to DCRF and will be connected by removing a modular wall.

Defective Service - a service output that does not meet the standard of performance associated with this specification.

Deliverable - anything that can be physically delivered but may also include non-physical things such as meeting minutes.

Facilities Requirements Document – a contractor provided document that identifies and describes all facilities requirements for utilities necessary to support the machine.

**Fiscal Year** - period used by the Government for accounting and budget purposes. Begins October 1 and ends September 30 of the following year.

**Freeboard Area** - the area within the solvent cleaning machine that extends from the solvent/air interface to the top of the solvent cleaning machine.

**Freeboard Height** - the distance from the solvent/air interface, as measured during the idling mode, to the top of the cleaning machine.

**Freeboard Ratio** - the ratio of the solvent cleaning machine freeboard height to the smaller interior dimension (length, width or diameter) of the solvent cleaning machine.

**Freeboard Refrigeration Device** - a set of secondary coils mounted in the freeboard area that carries a refrigerant or other chilled substance to provide a chilled air blanket above the solvent vapor.

**Health Hazard Assessment Report** – a contractor developed document used to systematically identify and evaluate health hazards, evaluate proposed hazardous materials, and propose measures to eliminate or control these hazards through engineering design changes or protective measures to reduce the risk to an acceptable level.

**Key Personnel** - contractor personnel that are evaluated in a source selection process and will be required and used in the performance of a contract. When key personnel are used as an evaluation factor in best value procurement, an offer can be rejected if it does not have a firm commitment from the persons that are listed in the proposal.

**NEC Class I Locations** - are locations in which inflammable gases or vapors are or may be present in sufficient quantities to produce explosive or flammable mixtures.

**NEC Class I Division I Locations** - locations where a hazardous atmosphere may be present during normal operations. It may be present continuously, intermittently, periodically or during normal repair or maintenance operations, or those areas where a breakdown in processing equipment releases hazardous vapors with the simultaneous failure of electrical equipment and where ignitable concentrations of flammable gases, vapors or liquids can exist all of the time or some of the time under normal operating conditions.

6.1.27. **NEC Class I Division II locations** - are locations in which volatile flammable liquids or gases are handled, processed or used. Normally they will be confined within closed containers or in closed systems from which they can escape only in the case of rupture or deterioration of the containers or systems.

6.1.28. **Physical security** - actions that prevent the loss or damage of Government property.

6.1.29. **Practical** – The onsite demonstration of a machine that verifies the machine meets or exceeds production standards. This is the last step in the Release for Production process. Typical CCAD entities that participate are Production personnel, Engineering, Safety, Quality Assurance, Quality Control, TMDE, Facilities. The contractor's role will be limited to answering technical questions regarding the equipment, however the contractor shall be responsible for providing technical documents as required.

6.1.30. **Preliminary design review** - a multi-disciplined technical review for a candidate design to establish the baseline for hardware, software, human/support systems and underlying architectures to ensure that the system under review has an expectation of satisfying the requirements of the design specifications.

**Primary Condenser** – a series of circumferential cooling coils on a vapor cleaning machine which a chilled substance is circulated or recirculated to provide continuous condensation of rising solvent vapors and, thereby, create a concentrated solvent vapor zone.

Product Drawings and Associated Lists - contractor produced engineering data and design disclosure for equipment provided that allows a Government entity to procure the same or similar item. This document also allows sustainment of the end product by the Government.

Quality Assurance - procedures to verify that services being performed by the contractor are performed according to acceptable standards.

Quality Program Plan - describes the methodology the contractor will use to meet the quality requirements needed for the specific program. The object of the plan is to define and document what, where, and how to procure, fabricate, assemble, inspect, test and deliver only units and other end products that conform to quality standards.

Quality Control - all necessary measures taken by the contractor to assure that the quality of an end product or service shall meet contract requirements.

Release for Production – a process in which a machine that measures, tests, modifies or repairs an aircraft part is released and authorized for use in a production process. The CCAD governing document is CCADR-700-109. CCAD entities participate in this process such as safety, environmental and quality assurance. Many tasks are required to prepare for this process, however the pinnacle activity is the machine demonstration or practical. The contractor shall provide support, however it shall be limited to answering specific questions about the machine.

SCADA - a control system architecture that uses computers, networked data communications and graphical user interfaces for high-level process supervisory management and uses peripheral devices to interface to machinery.

Security - technical implementation guide: a cybersecurity methodology for standardizing security protocols within networks, servers, computers, and logical designs to enhance overall security. These guides, when implemented, enhance security for software, hardware, physical and logical architectures to further reduce vulnerabilities.

Shop Ancillary Equipment – Equipment that typically supports larger equipment. Examples of ancillary equipment: toolboxes, handheld devices, special tooling, fixtures and jigs, tables, micrometers, push carts, work stands and platforms.

Solvent to Air Interface – for a vapor cleaning machine, the surface area of the solvent vapor zone that is exposed to the air. This location is defined as the midline height of the primary condenser coils. For a cold cleaning machine, it is the location of contact between the liquid solvent and the air.

Solvent Vapor Zone – the area that extends from the liquid solvent surface to the level that solvent vapor is condensed. This condensation level is defined as the middle height of the primary condenser coils.

Subcontractor - one that enters into a contract with a prime contractor. The Government does not have privity of contract with the subcontractor.

Test Plan – a contractor developed document that identifies how a machine or tool will be tested. The test plan demonstrates the functionality of the machine in enough detail to determine that the machine meets specifications in this document. Test plans may include additional testing procedures provided by the Government as stated in this document.

Turnkey – a requirement that provides a complete product that is ready for immediate use.

Utilities – building supplied services such as potable water, electricity, compressed air, chilled water, hot water.

Volatile Organic Compound – emitted gases from certain solids or liquids. Includes a variety of chemicals that may have short to long term adverse health effects.

Workday - the number of hours per day the contractor provides installation in accordance with the contract.

Work Week - defined as Monday through Friday.

#### Appendix B – Acronyms

ACGIH	American Conference of Government Industrial Hygienists
ACFM	Actual Cubic Feet Per Minute
AHA	Activity Hazard Analysis
AMCOM	Army Aviation and Missile Command
APP	Accident Prevention Plan
AR	Army Regulation
BOD	Beneficial Occupancy Date
CAD	Computer Aided Design
CCAD	Corpus Christi Army Depot
CCADR	Corpus Christi Army Depot Regulation
CDR	Critical Design Review
CDRL	Contract Data Requirements List
CFM	Cubic Feet Per Minute
CMM	Coordinate Measuring Machine
CMAA	Crane Manufacturers Association of America
CNC	Computer Numerical Control
CONOPS	Concept Of Operations
COC	Certificate of Conformance
COR	Contracting Officer's Representative
DA	Department of The Army
DALT	Duct Air Leakage Testing
DCRF	Dynamic Component Rebuild Facility
DI	De-Ionized
DLA	Defense Logistics Agency
DMWR	Depot Maintenance Work Requirements
DOD	Department Of Defense
EPA	Environmental Protection Agency
EPCD	Environmental Programs Compliance Division
FAR	Federal Acquisition Regulation
FEMD	Facility Engineering Management Division
FY	Fiscal Year
GFE	Government Furnished Equipment
GFI	Government Furnished Information
HAZMAT	Hazardous Material
HMI	Human Machine Interface
HVAC	Heating, Ventilation And Air Conditioning
HVLP	High Volume Low Pressure
IA	Information Awareness
IDIQ	Indefinite Delivery Indefinite Quantity
ILAN	Industrial Local Area Network
IPM	Inches Per Minute

ISF	Isotropic Superfinish
I/O	Input/output
IT	Information Technology
KO	Contracting Officer
LBS.	Pounds
LEL	Lower Explosive Limit
MCA	Military Construction Authority
MHE	Material Handling Equipment
MOC	Materials Of Construction
MPI	Magnetic Particle Inspection
NAS	Naval Air Station
NAVFAC	Navy Facility
NDI	Non-Destructive Inspection
NEC	National Electric Code
NEMA	National Electrical Manufactures Association
NIST	National Institute of Standards and Technology
NLT	No Later Than
NM	Newton - Meter
NPT	National Pipe Thread
NFPA	National Fire Protection Association
NRTL	Nationally Recognized Testing Laboratory
ODCS	Ozone Depleting Compounds
O&M	Operation And Maintenance
OEM	Original Equipment Manufacture
OSHA	Occupational Safety & Health Association
PDR	Preliminary Design Review
PDU	Power Distribution Unit
PLC	Programmable Logic Controller
PM	Project Manager Or Project Manager
POC	Point Of Contact
PVC	Polyvinyl Chloride
PWS	Performance Work Statement
QA	Quality Assurance
QC	Quality Control
QPP	Quality Program Plan
RO	Reverse Osmosis
RFP	Release For Production
SCADA	Supervisory Control And Data Acquisition
SOW	Statement Of Work
SS	Stainless Steel
SSHO	Site Safety And Health Officer
STIG	Security Technical Implementation Guide
TAB	Testing, Adjusting And Balancing
TE	Technical Exhibit

TPOC	Technical Point of Contact
UFC	United Facilities Criteria
UFGS	United Facilities Guide Specifications
VLM	Vertical Lift Machine
VLC	Vertical Lift Carousels
VOC	Volatile Organic Compound
WSR	Workstation Requirement

## Appendix C – Regulations

Army Aviation and Missile Command 385-10

NSF international (not to be confused with the National Science Foundation)

EM 385-1-1: US Army Corps of Engineers Safety Manual

MIL-STD-1472G: Department of Defense Design Criteria Standard for Human Engineering

CCAD Industrial Information Technology Requirements: new system acquisition requirements and system modifications

MIL-STD-882E Department of Defense Standard Practice – System Safety

Corpus Christi Army Depot Regulations

CCADR 385-30

CCADR 200-16

CCADR 200-19

CCADR Environmental Group Requirements dated 6-20-2014

CCADR FP-1 Fire Protection Document: Pre-Construction Contractor's Fire Regulation Guide (obtained from Corpus Christi NAS Fire and Emergency Services)

NASCORPCINST 11320.8K: Fire and Emergency Services: regulations for fire protection and prevention

OSHA: to include, but not limited to:

Occupational Safety and Health Act of 1970

Code of Federal Regulations XVII

Title 29, part 1910 and amendments

Title 40

29 CFR 1910: Occupational Safety and Health Standards

1910.94 Ventilation, to include Table G-10

29 CFR 1910.123-1910.126

29 CFR 1926: OSHA Regulations for Construction

40 CFR 63.463: Batch vapor and in-line cleaning machine standards

National Electric Manufacturers Association: to include, but not limited to:

ANSI/NEMA ICS 1: Industrial Controls and Systems

ANSI/NEMA MG 1: Motors and Generators

NEMA 250: Enclosures for Electrical Equipment

American Society for Testing and Materials: to include, but not limited to:

ASTM-D-3951-98: Standard Practices for Commercial Packaging

A36 and A36M Standard Specification for Structural Steel

NFPA/NEC: to include, but not limited to:

NFPA 1: Uniform Fire Code

NFPA 13 and ERTA 4: Standard for the Installation of Sprinkler Systems

NFPA 32:

NFPA 33: Standard for Spray Application Using Flammable or Combustible Materials

NFPA 34: Standards for Dipping, Coating, and Printing Processes using Flammable or Combustible Liquids

NFPA 51B: Standard for Fire Prevention During Welding, Cutting and Other Hot Work

NFPA 70: National Electric Code

NFPA 70E: Standard for Electrical Safety In the Workplace

NFPA 72:

NFPA 86: Standard for Ovens and Furnaces

NFPA 90A:

NFPA 101: Life Safety Code

NFPA 499

NFPA 780: Standard for Installation of Lightning Protection Systems

American Conference of Governmental Industrial Hygienists: Industrial Ventilation Guide – a manual for recommended practice for design

Hazardous substance fact sheet: strontium chromate, CAS number 7789-06-2

Sheet Metal and Air Conditioning Contractor's National Association: industrial duct construction standards

International Standards Organizations (ISOs)

ISO 14001

Cleanrooms and associated controlled environments

ISO 14644-1

ISO 14644-2

ISO 14644-4

ISO 14644-7

American Welding Society: to include, but not limited to

D1-1-90: Structural Welding Code – Steel

D1.1: Structural Welding Code

D1.1M: Structural Welding Code

American National Standards Institute: to include, but not limited to

ANSI Z358.1-2014: Eye Wash and Drench Shower Standard

B31.1-89 Standard Code for Power or Pressure Piping

ANSI Z358.1-2014: Eye Wash and Drench Shower Standard

ANSI/AIHA Z9.2: Fundamentals Governing The Design and Operation of Local Exhaust Ventilation Systems

ANSI/ASSE Z9.3-2007 Spray Finishing Operations: Safety Code for Design, Construction and Ventilation

ANSI Z9.6

ANSI/AIHA Z9.7: Recirculation of Air From Industrial Process Exhausts Systems

ANSI/NEMA ICS-88: Enclosures for Industrial Control Systems

ANSI/NEMA Publication 250: Enclosure for Electrical Equipment

ANSI/NEMA ICS1: Industrial Control Systems

ANSI/NEMA MG1: Motors and Generators

ANSI/ASME Boiler and Pressure Vessel Code

ANSI MH27.1

ANSI MH27.2

ANSI B30.17

ANSI B30.2.0 - 1967

ANSI Z87.1

ANSI Z41-1999  
ANSI/ISEA 107-2010  
ANSI Z89.1

Unified Facilities Specifications and Criteria: to include, but not limited to:

UFC-520-1: Interior Electrical Systems  
UFC-560-1: Electrical Safety, May 1, 2012 Revision  
UFC 3-410-04N: Industrial Ventilation Unified Facilities Criteria  
UFC 3-600-10N: Fire Protection Engineering  
UFC 4-211-02: Criteria for Aircraft Corrosion Control and Paint Facilities  
UFC 3-560-01: Change 4, May 1, 2012  
UFC 3-530-01: Interior and Exterior Lighting Systems and Controls

Note: the UFC does not incorporate individual state and local environment requirements. It is the responsibility of the contractor to design to the UFC, state and local requirements.

Industrial Ventilation Systems Military Handbook:  
MIL-HDBK-1003/17C

Army technical bulletin and manuals:

TB 43-0142: Safety Inspection & Testing of Lifting Devices Department of the Army  
TM 5-682: Facilities Engineering, Electrical Facilities Safety

Federal Code 40CFR 63 subparts gg 63.245 (g) and 63.752 (d): National Emission Standards for Hazardous Air Pollutants For Source Categories, Aerospace Manufacturing and Rework Facility NESHAP  
Aerospace Manufacturing and Rework Facility NESHAP and Standards

Executive Orders 13423 and 13514

MIL-STD-130F: Marking

MIL-STD-822B: System Safety Program Requirement

MIL-STD-1474: DOD Design Criteria Standard, Noise Limits, April 15, 2015

NAS 855-87: Industrial Packing Standard

Crane Manufactures Association of America (CMAA)

Load Testing Technical Bulletin: TB 43-0142

LPI-175

UL96A

ASME BPVC: Boiler and Pressure Vessel Code

ASME B31.3: Process Piping

Magnetic Particle Inspection/Fluorescent Penetrant Inspection Standards and Specifications:

ASTM E1444/E1444M-12

ASTM E2297

ASTM E3022

ISO 3059

RRES 90061

AIRBUS AITM6-1001

ASME BPVC  
 ASTM E165  
 ASTM E1417/E1417M-15/16  
 ASTM F601  
 ISO 3452  
 NADCAP AC7114/1  
 NADCAP AC7114/2  
 ASTM E709  
 ASTM E3024  
 AMS 3040 THROUGH 3046  
 AS5282  
 CAN/CSA C22.2 NO. 61010-1-12  
 ISO 9934  
 SAE AMS 2644E

Whole Building Design Guide

ASME B31.3: Process Piping

Title 30, Texas Administrative Code, Rule 106

#### Appendix D - Additional Security Requirements in accordance with Security Requirements and Guidance

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This document is a brief overview of rules and regulations of NASCC and CCAD. It is not intended to be all-inclusive or cover all contingencies.

Direct specific security requirements questions to the following numbers:

CCAD: (361) 961-3313  
 NASCC: (361) 961-2480

#### Regulations:

- Army Directive 2014-05 (or its successor) Policy and Implementation Procedures for Common Access Card Credentialing and Installation Access for Uncleared Contractors
- AR 25-1, Army Knowledge Management and Information Technology AR 25-2, Information Assurance
- AR 25-55, The Department of the Army Freedom of Information Act AR 70-31, Standards for Technical Reporting
- AR 190-13, Department of the Army Physical Security Program AR 360-1, The Army Public Affairs Program
- AR 380-5, Department of the Army Information Security Program
- AR 380-10, Foreign Disclosure and Contact with Foreign Representatives AR 380-49, Industrial Security Program
- AR 380-67, Personnel Security (PERSEC) AR 530-1, Operations Security (OPSEC)
- AR 530-1, AMC Supp Operations Security (OPSEC) AR 530-1, CCAD Plan Operations Security (OPSEC) AMC-R 525-13, AMC Force Protection Program
- DoD 5220.22-M National Industrial Security Program Operating Manual DoD Directives 5230.24, Distribution Statements on Technical Documents
- DoD Directives 5230.25, Withholding of Unclassified Technical Data from Public Disclosure DoD Regulation 5200.2-R Personnel Security Program
- DoD 5400.11-R, Department of Defense Privacy Program UFC 4-010-01 9 February 2012 Change 1, 1 October 2013

- DoD MINIMUM ANTITERRORISM STANDARDS FOR BUILDINGS UNIFIED FACILITIES CRITERIA (UFC)
- DoDI 1000.13, Identification (ID) Cards for Members of the Uniformed Services, Their Dependents, and other Eligible Individuals
- DoDM 1000.13, Volume 1, DoD Identification (ID) Cards: ID Card Life-Cycle DoDI 5200.02 DoD Personnel Security Program
- Under Secretary of Defense Memorandum, Minimum Requirements for Interim Eligibility to Access Secret and Confidential Information, dated 27 Jan 2014
- U.S. Office of Personnel Management Memorandum, "Final Credentialing Standards for Issuing Personal Identity Verification Cards under HSPD-12," July 31, 2008 Page 2 of 8

## 1. Conduct and Behavior

1.1 All personnel entering and working at CCAD are subject to all rules, regulations and applicable laws. All personnel and their effects are subject to search, to include vehicles and company belongings.

1.2 Conduct and Behavior IAW DoD Directive 5200.8, "Security of DoD Installations and Resources", the NAS commander has broad authority to remove or exclude any person or persons from the military installation to protect personnel and property, to maintain good order and discipline, and to ensure the uninterrupted and successful performance of the installations mission. In the exercise of this authority, the commander may refuse to grant entry or may bar Contractor employees. Refusal of entry or barment of any employee does not relieve the Contractor of the responsibility to continue performance under this contract.

1.3 No person shall willfully fail or refuse to comply with lawful orders or direction of any civilian or military security police officer.

1.4 The Contractor shall not employ persons for work on this contract if such employees are identified to the Contractor by the Government as a potential threat to the health, safety, security, general well-being or operational mission of the installation and its population. Disrespectful behavior, failure to obey orders or regulations, fighting, horseplay, stealing, illegal use of drugs (using/transporting/selling), consuming or being under the influence of alcohol, or being in the possession of illegal weapons are prohibited and subject to appropriate penalties. This may include being detained, banned from entering the Government facility, or remanded to civilian authorities.

1.5 All Contractor personnel will limit their travel on the installation only to specific areas required for performance of the contract, specified break and meal areas, or in travel directly to and from these locations. Employees found on the installation away from officially identified areas may be detained and/or debarred from the installation.

1.6 Subcontracts; if the Contractor enters into a Subcontractor arrangement with another Contractor, the prime Contractor is responsible for Subcontractor performance and compliance. The prime Contractor must provide a copy of the security requirements to the subcontractor. The KO must ensure any questions of adequacy of the Subcontractor are resolved to the mutual satisfaction of the prime Contractor, Subcontractor, security, and CCAD commander.

1.7 All prospective Government and Contractor employees are subject to a check of their criminal history prior to being granted access to CCAD. Adverse or derogatory information revealed by these checks, or failure to provide full disclosure, may result in denial of access.

## 2. Support

2.1 Security support provided by CCAD to the Contractor includes (if applicable) storage containers for classified information/material, use of base destruction facilities, classified reproduction facilities, use of base classified mail services, security badging, investigation of security incidents, base traffic regulations, use of security forms, and conducting inspections required by DoD 5220.22-R "Industrial Security Regulation", Army Instruction 380-49 "Industrial Security Program", AR 380-5 "Department of Army Information Security Program", and AR 25-2 "Information Assurance" and others as required or deemed necessary by the Government.

2.2 Security support requiring joint Army and Contractor coordination includes packaging classified information, mailing and receiving classified materials, implementing emergency procedures for protection of classified information, security checks, and internal security controls for protection of classified material, sensitive material, and high value pilferable property.

### 3 Security Investigation Requirements

3.1 Investigation requirements including IT level and CAC requirements should be clearly indicated in the contract and Statement of Work (SOW).

3.2 Subcontracts; if the Contractor enters into a Subcontractor arrangement with another Contractor, subcontractors must be clearly identified in the contract agreement.

3.3 Contractors must maintain the same level investigation or higher as their civilian counterparts. In the absence of a civilian counterpart, CCAD Security will determine the level of investigation based on a position sensitivity review. Close coordination with the tpoc and company are required. All documentation required for access to CCAD for classified contracts or IT Level I & II shall be processed through the CCAD Security Personnel Security Office prior to entering CCAD facilities.

### 4. Classified Contracts:

4.1 For all contracts involving employees who require a security clearance for performance of their duties or access to classified material, the Contractor must possess or obtain a facility security clearance prior to performing contract work. If the Contractor does not possess a facility clearance, the Government (Contracting Office) may request one from the Defense Security Service (DSS).

9.4.2 An interim clearance must be in place prior to entering CCAD facilities. All documentation (i.e. SF 86, etc.) required for security clearance shall be processed through the Contractor Facility Security Office (FSO).

4.3 Contractor employees without a clearance level or background check properly indicated in the Joint Personnel Adjudication System (JPAS) or its successor, will not be assigned to this task directly or indirectly. Contractor employee(s) will not be authorized access, regardless of personal clearance, without the facility first being cleared to the appropriate level by DSS.

4.4 The Contractor shall request security clearances for personnel requiring access to classified information or IT Level I or II within 15 days after receiving a facility clearance. If the Contractor is already cleared, they shall request security clearances for the personnel within 15 days after contract award. Due to costs involved with security investigations, requests for Contractor employee security clearances shall be kept to an absolute minimum necessary to perform contract requirements.

4.5 IT Level I positions; Contractor employees shall have one of the following prior to commencing work: A current, valid Tier 5 investigation or equivalent or "Interim" Top Secret eligibility by Defense Industrial Security Clearance Office (DISCO) indicated in JPAS.

4.6 IT Level II positions; Contractor employees shall have one of the following prior to commencing work: A favorably completed Tier 3 investigation or equivalent or "Interim" Secret eligibility by DISCO indicated in JPAS.

4.7 IT Level III positions; Contractor employees shall have one of the following prior to commencing work: A favorably completed Tier 3 investigation or equivalent or "Interim" Secret eligibility by DISCO indicated in JPAS.

4.8 Unclassified Contracts requiring IT access: All documentation (i.e. SF 85\*, etc.) required for their initial security appointment for unclassified contracts to IT Level III shall be processed through the CCAD Security Personnel Security Office prior to entering CCAD facilities.

4.9 IT Level III positions; Contractor employees requiring access to CCAD Local Area Network (LAN) shall have background investigation processed through CCAD Personnel Security Office. If the Contractor employee does not possess the proper investigation, the Government (TPOC) will request one. The Government assumes costs and initiates the investigation by submitting the appropriate Personnel Security Investigation request to the Army Center of Excellence. Minimum requirements for CAC issuance and access to the LAN is an initiated investigation with favorable FBI fingerprint check. Due to costs and the inherent delays involved with security investigations, requests for Contractor LAN access shall be kept to an absolute minimum necessary to perform contract requirements.

Fitness Issues:

4.10 CCAD Security will be notify the TPOC when discovery of adverse information indicates potentially actionable issues that may disqualify the Contractor employee from access.

4.11 OPM Memorandum, Final Credentialing Standards for Issuing Personal Identity Verification (PIV) Cards under HSPD-12 provides government-wide credentialing standards to be used by all Federal departments and agencies in determining whether to issue or revoke PIV cards to employees and Contractor personnel.

4.12 Whether or not to grant access is the sole discretion of the Government. The decision not to grant access will not be grounds for contract modification and shall not constitute an excuse for Contractor performance failure.

4.13 System Authorization Access Request (SAAR): Prior to system access, a SAAR, DD Form 2875, shall be completed by the Contractor employee. The Contractor employee shall complete Part I, the TPOC shall complete Part II, and CCAD Personnel Security shall complete Part III.

4.14 Unclassified Contracts NOT requiring IT access: Contracts not requiring access to CCAD LAN shall be subject to installation access requirements that include Rapid Gate and/or guest sponsorship. The TPOC shall provide the appropriate details and contact information.

## 5 IT/IA Requirements

5.1 All contract employees with access to the CCAD network must be registered in the Army Training Certification Tracking System (ATCTS) at commencement of services. Contractors and associated subcontractor employees must also complete DoD IA Awareness Training before they can be granted access to the CCAD network and complete the training annually thereafter.

5.2 All Contractors working IA/IT functions must comply with DoD and Army training requirements in DoDD 8570.01, DoD 8570.01-M, and AR 25-2 within 6 months of employment.

5.3 Per DoD 8570.01-M, DFARS 252.239.7001, and AR 25-2, the Contractor employees' supporting IA/IT functions shall be appropriately certified upon contract award. The baseline certification, as stipulated in DoD 8570.01-M, must be completed upon contract award.

## 6 Foreign Nationals

6.1 Official Visits: All official foreign visits (visits sponsored by a foreign government) must be based on a legitimate need, be sanctioned by the appropriate foreign attaché or embassy, and approved through Department of Army channels. Access will be coordinated through the CCAD Foreign Disclosure Officer (FDO), TPOC, and respective NASCC/CCAD security offices.

6.2 Unofficial Visits: These are visits by foreign nationals that are not endorsed by a foreign government. The Contractor will submit a request for employee access, based on a legitimate need, to the appropriate TPOC. The TPOC will in turn notify the FDO of the request. Due to security considerations, requests for these types of visits should be kept to a minimum. Foreign nationals will require a government escort at all times while on CCAD property. The TPOC will ensure the foreign Contractor employee provides a copy of their passport to NASCC and CCAD security offices, to ensure the appropriate background checks are completed.

6.3 Notifications: The following information will be submitted to the TPOC and the CCAD Security Manager on company letterhead, signed by the Contractor Facility Security Officer (FSO) within 15 days of awarding the contract. An updated listing shall be provided quarterly or when the company or an employee's status or information changes. Electronic equivalents are acceptable. The notification shall include:

- Name, address, and telephone number of company representatives.
- Employee's name, last four of social security number, shift.
- The contract number and contracting agency.
- The highest level of classified information to which Contractor employees require access.
- The location(s) of contract performance.
- The date contract performance begins and terminates.

6.4 Security Point of Contact: At no cost to the Government, the Contractor shall appoint a senior Contractor employee to serve as an on-site point of contact for any security concerns at the CCAD location. This may be a full time position or an additional duty position.

## 7 Security Training

7.1 All Contractor employees, including subcontractor employees, requiring access to Army installations, facilities, or controlled access areas shall complete AT Level I awareness training within 30 calendar days after contract start date or effective date of incorporation of this requirement into the contract, whichever applies. The Contractor shall submit certificates of completion for each affected Contractor employee and subcontractor employee to the TPOC (or to the KO, if a TPOC is not assigned) within 30 calendar days after completion of training by all employees and subcontractor personnel. AT Level I awareness training is available at <https://atlevel1.dtic.mil/at>.

7.2 US-based contractor and subcontractor employees who are required to travel overseas in performance of their duties must receive government provided AT awareness training that is specific to the AOR, as directed by AR 525-13. Specific AOR training content will be directed by the combatant commander and the unit ATO will ensure an applicable AT foreign travel briefing is provided to the Contractor.

7.3 The Contractor and all associated subcontractors shall brief all employees on the local iWATCH program. This is a locally developed training is provided by CCAD security and will be used to inform employees of the types of suspicious behavior to watch for and instruct employees to report suspicious activity to the TPOC. This training shall be completed within 30 calendar days of contract award and within 30 calendar days of new employees' commencing performance, with the results reported to the TPOC no later than 30 days after training completion.

7.4 Those Contractors who require a CAC Card and access to the CCAD network, the Contractor must develop an OPSEC Standing Order Procedure (SOP)/Plan within 90 days of contract award, which will be reviewed by the CCAD OPSEC Officer for approval IAW AR 530-1, Operations Security. The SOP/Plan must identify CCAD's critical information, why it needs to be protected, where it is located, who's responsible for it, and how to protect it.

7.5 IAW AR 530-1, new Contractor and associated subcontractor employees who require a CAC Card and access to the CCAD network must complete Level I OPSEC training within 30 calendar days of reporting for duty. In addition, all Contractor and associated subcontractors must complete annual OPSEC awareness training.

7.6 Pass and Identification Items: The Contractor shall obtain the pass and identification items for employees and Contractor owned vehicles required for contract performance.

7.7 Retrieving Identification Media: The Contractor shall retrieve all identification media, including vehicle passes from employees who depart for any reason before the contract expires; e.g. terminated for cause, retirement, etc. and surrender to CCAD security through the TPOC.

7.8 Weapons, Firearms, and Ammunition: Contractor employees are prohibited from possessing weapons, firearms, or ammunition, on themselves or within their Contractor-owned vehicle or privately- owned vehicle while on CCAD.

7.9 Reporting Requirements: Contractor personnel shall report to an appropriate authority any information or circumstances of which they are aware may pose a threat to the security of personnel, resources, and classified or unclassified defense information. Contractor employees shall be briefed by their immediate supervisor upon initial on-base assignment.

7.10 Physical Security: The Contractor shall be responsible for safeguarding all Government property and controlled forms provided for Contractor use. At the end of each work period, all Government facilities, equipment, and materials shall be secured.

## 8 Safeguarding Classified or Sensitive Information

8.1 Classified: Visitor Groups will safeguard classified information IAW DoD 5200.1-R, DoD Information Security Program, AR 380-5, Department of the Army Information Security Program, AR 380- 49, Industrial Security Program, and other directives deemed necessary by the Servicing Security Activity (SSA)

8.2 Any material marked as Top Secret, Secret, Confidential, For Official Use Only (FOUO) Freedom of Information Act (FOIA), Privacy Act Information, or any other restrictively marked material discovered by the Contractor or Contractor employees will be surrendered at the earliest opportunity to any military or DoD employee of the installation. Under no circumstances will the Contractor retain such material. The Contractor and all Contractor employees will execute a SF 312, Classified Information Non-Disclosure Agreement or equivalent CCAD Non-Disclosure Agreement as directed or required.

8.3 Information Systems (IS): All Contractor personnel will protect and restrict access to all documentation (i.e. maps, test and evaluation results, vulnerability assessments, audits, results, or findings) describing operational IS architectures, designs, configurations, vulnerabilities, address listings, or user information.

8.4 FOR OFFICIAL USE ONLY (FOUO): The Contractor shall comply with DoD 5400.7-R, Chapter 4, DoD Freedom of Information Act (FOIA) Program requirements and AR 25-55, Chapter III and Chapter IV, The Department of the Army Freedom of Information Act Program. These regulations set forth policy and procedures for the disclosure of records to the public and for marking, handling, transmitting, and safeguarding FOUO material.

8.5 Privacy Act: All data associated with this task is covered by the Privacy Act of 1974, Title 5 of the

8.6 U.S. Code, Section 552a and applicable CCAD rules and regulations. Violation of the Act may involve the imposition of criminal penalties. Therefore, all Contractor personnel assigned shall take appropriate actions to prevent unauthorized disclosure of Privacy Act information.

8.7 Operations Security (OPSEC): Contractor personnel must protect information that has been designated as critical to the CCAD mission from disclosure. Critical information will only be disseminated on a “need-to-know” basis and not be discussed in public areas such as hallways, bathrooms, eateries, smoke shacks, or any off-base gathering locations. Contractor employees will not pass critical information over unsecured telephones, facsimiles, and/or e-mail outside of the CCAD firewall. All critical/sensitive information being electronically transmitted will be encrypted. Contractor employees will not post critical information on the web, personal “blogs,” or where it is visible to visitors or the public. All information, to include photos, web posts, and captions, must be reviewed by the CCAD Public Affairs Officer (PAO) and the CCAD Operations Security Officer prior to public dissemination.

8.8 Proprietary Information: Information and materials developed at CCAD are considered business sensitive and must be protected from unauthorized disclosure. This information is the sole property of CCAD and must not be revealed or used except in contract performance. Distribution is limited to authorized US Government agencies and identified Contractors. Contractor personnel must receive prior authorization from the CCAD Public Affairs Officer (PAO) and the CCAD Operations Security Officer to disseminate CCAD information.

## 9 Key Control & Lock Combinations

9.1 The Contractor shall establish and implement methods of making sure all keys issued to the Contractor by the Government are not lost or misplaced and are not used by unauthorized persons. The Contractor shall not duplicate any keys issued by the Government.

9.2 The Contractor shall coordinate with security for the receiving of keys needed to access necessary work spaces.

9.3 The Contractor shall immediately report to security, the Quality Assurance Evaluator (QAE), and Program Manager any occurrences of lost or duplicated keys.

9.4 In the event keys, other than master keys, are lost or duplicated, the Contractor may be required, upon written direction of the KO, to re-key or replace the affected lock or locks at no cost to the Government. The Government may, however, at its option, replace the affected lock or locks or perform re-keying and deduct the cost of such assistance from payment due the Contractor. In the event a master key is lost or duplicated, all locks and keys for that system shall be replaced by the Government and the total cost deducted from payment due the Contractor.

9.5 The Contractor shall prohibit the use of any door obstruction and/or the removal of hardware that would prevent a door from securing properly.

9.6 The Contractor shall prohibit the use of keys, issued by the Government, by any persons other than the Contractor's employees and the opening of locked areas by Contractor employees to permit entrance of persons other than Contractor employees engaged in performance of contract work requirements in those areas.

9.7 Lock Combinations: The Contractor shall control access to all Government provided lock combinations to preclude unauthorized entry. The Contractor is not authorized to change lock combinations without written approval by the Government Program Manager. Records with written combinations to authorized secure storage containers, secure storage rooms, or certified vaults, shall be marked and safeguarded at the highest classification level as the classified or sensitive material maintained inside the approved containers or room.

## 10 Other Responsibilities

10.1 Traffic Rules and Regulations: All personnel will abide by all traffic and parking rules and regulations. Failure to abide may result in issuance of Government citations.

10.2 Permission to park company support vehicles within the perimeters of the job must be approved in advance by the TPOC and Security. Company support vehicles must have company identification.

10.3 Identification: CCAD requires Contractor personnel wear a Government issued identification badge provided by CCAD, NAS, or their representatives. Safety restrictions may require the pass to be removed while working, but it must be worn in plain view, above the waist, when away from the job site. Failure to do so is a violation of security regulations and may result in disciplinary action.

10.4 Visitors: Contractor personnel must clear all visitors in advance through the TPOC. This includes Contractor personnel and personal guests. All foreign national visitors will be identified to the appropriate authorities, be based on a legitimate need, and are only allowed at the discretion of the installation commander.

10.5 Photography: All photographic or video equipment must be acquired through the TPOC who will notify PAO prior to purchase for recommendations and acquisition guidelines. The Property Book Officer will be notified upon receipt of the equipment for inventory and bar tagging. Government purchased photographic and video equipment are accountable items and must be added to a property book account. Under no circumstance will Contractors use their own photographic or video equipment.

10.6 Photographs, video, drawings, blueprints, or any other type of rendering or measurements unrelated to contract performance of sensitive areas, such as critical resources, controlled or restricted areas, or other areas deemed sensitive by the Government is strictly prohibited. The Government reserves the right to seize equipment used for

unauthorized purposes and the employee and/or Contractor may be debarred from the base, detained, reported and/or remanded to civilian authorities, or have other sanctions placed against them.

10.7 Transfer of digitized or electronic photographs, video, drawings, blueprints, or any other type of rendering or measurements must be coordinated/requested through the CCAD information assurance office.

10.8 Weekends /After Duty Hours: Notice of weekend/after duty hours scheduled work must be submitted to Security through the TPOC. Personnel working weekend or after duty hours must check in and out with Security. Building access support to job sites must be arranged with the TPOC. Keys to areas are obtained by the TPOC. Requesting areas to be unlocked by personnel other than contract representatives is not authorized.

## 11 Barricades/Construction Areas

11.1 Designating construction areas is Contractor's responsibility and must be coordinated in advance through the TPOC, Safety, CCAD Fire Marshall, and CCAD Security. Work (construction) areas will be secured at the end of each day. All doors and windows must be closed and locked, and lights and electrical equipment turned off.

11.2 All Contractor property locks and keys must be properly secured. The Government is not responsible for personal property left unattended or unsecured.

11.3 CCAD Security is to be notified of all emergencies, accidents, disturbances, etc. (as soon after the event as is reasonably possible) or requests for Security related assistance. CCAD Security will make the appropriate calls for proper authorities.

11.4 All personnel will abide by all applicable safety procedures and responsibilities. Smoking in areas other than authorized areas located throughout the Depot is prohibited.

11.5 Opening or blocking doors, entering non-job related areas without permission or clearance, or removing tools or other Government equipment without proper permission is not permitted. Government buildings and property will not be left unattended and unsecured.